

Request for Proposal:

Development of an Open Source Health Care Information Website

Timeline:

Posting Date: Monday, June 15, 2009
Bidders conference: Monday, July 13, 2009
Proposals due: Friday, July 24, 2009
Evaluation begins: Monday, July 27, 2009
Contract Awarded: Monday, August 3, 2009
Dates are subject to change.

I. About OursMedicina Inc.

OursMedicina Inc, known as "OurMed," is a non-profit, non-partisan organization committed to providing free, comprehensive, credible, and open source health care information which will improve access to and relationship with health care for people around the world. OurMed will optimize the provision of health information for the betterment of the health care system and all its participants by modeling the establishment of a free, non-commercial, non-geographically biased, international, interactive, and referential website.

In the effort to provide accurate and useful healthcare knowledge to consumers, OurMed will operate transparently. Its source-code and content will all be publicly available for distribution and use in other places. Its accounting records will be publicly posted for all to see. Users of and contributors to the site will have a full understanding of what OurMed is comprised of. Another aspect of OurMed's philosophy is its dedication to internationalism. The website will start out with an English Language audience, but will eventually be multi-lingual. This will allow contributors and users from around to world to share health information and knowledge in a manner that was until now impossible.

Finally, OurMed will is a non-commercial venture. It has no financial stake in its success. Rather than accruing profits from advertisements, OurMed is committed to providing truly free health information.

OurMed aims to be the top healthcare resource for healthcare consumers from all around the world, create a community of volunteer healthcare information editors and contributors allow the best products and services to rise to the top based on a free non-commercial community rating exchange.

For details and more information of the wiki that has been developed to date please visit www.OurMed.Org Submit questions to rfp@ourmed.org

II. Background

Recent studies have shown that roughly half of American adults have sought health information on the internet. Amongst strictly internet users, 80% of Adults have searched for one of the top 16 health topics. These figures make health information seeking one of the most popular internet activities. (Fox, Fallows, 2003)

http://64.233.169.104/search?q=cache:KbQM0uz6H4IJ:www.pewinternet.org/pdfs/pip_health_report_july_2003.pdf+internet+health+seeking&hl=en&ct=clnk&cd=1&gl=use

The figures above illustrate that OurMed has a potential audience of 93 million adult users. But, this only tells part of the story. OurMed aims include users and contributors from around the globe due to its multi-lingual format. While it is unclear if other parts of the world sustain health searching behavior on the level experienced here in the US, it's safe to assume that tens of millions of internet users outside of the globe are potential OurMed users.

Given the huge numbers of people searching the internet for health information, it is clear that there is a substantial, if crowded market for health information on the internet. There are numerous sites domestically and abroad offering different varieties of knowledge (WebMD, NIH, Mayo Clinic, Wikipedia). They are organized differently, have different funding schemes, and offer different types of services. OurMed has certain distinguishing characteristics that set it apart from its alternatives. To date there is no single source of global information that is free, simple, timely, accurate and valuable information, untainted by corporate influence.

- It will be the first health website to post all of its accounting information for anyone to see. This open book strategy will inspire confidence in both potential donors and contributors.
- Unlike private alternatives, OurMed is a non-profit organization. Instead of having to pay contributors, they will be attracted to the organizational mission and edit and create articles for free.
- The OurMed board will include members from other parts of the world, attracting contributors writing in a variety of languages. This will exponentially increase market size, far surpassing that of OurMed's domestic competitors.
- It will include section for user feedback where users can rate the content of an article or the quality of a drug, treatment and particular doctor. Such a rating system is not maintained by any alternatives. One barrier to people using internet health resources is a lack of trust in a given sites content. The rating system will help alleviate such qualms with OurMed's content. Furthermore, the rating of drugs, treatments and doctors would be a novel feature of this site.

III. Project Description

We seek to build an interactive, dynamic and open source website in six months that will enhance the healthcare wiki currently available at OurMed.Org. The next iteration of the site will use all current features and additionally, under a new design, include several new features that are detailed in the OurMed Technical Specifications document.

The overarching aim of this project is to add data and functionality that will be useful to healthcare consumers with user friendly and efficient navigation. As a healthcare information site, credibility is key and it is imperative that the site be representative of “clean and clear” information.

It is anticipated that the first month of site development will entail design and layout of the homepage with links to some of the pages driving much of the site content. A migration of current disease data will be required to populate the wiki and users will largely be responsible for importing other items. An assessment by OurMed staff every two months will be necessary to track deliverables.

Part A: System Architecture

Currently, OurMed is running customized code originated by Media-Wiki software. The platform must be of an open source type (Linux or other).

Although not required, further use of LAMP, Linux, MySQL, Apache and PHP is anticipated.

Please provide specifics about the system architecture that will be used to implement your proposal, including:

- Host Operating System (eg, Linux) and suggested hardware platform
- Application framework (eg, LAMP, Ruby on Rails, ASP .NET, J2EE)
- Relational Database Management System
- Information Retrieval (Search) Engine
- Content Management System (optional)
- Web page templating mechanism (for reuse of common UI elements and ease of editorial updates).

Proposed Hosting Environment: OurMed webhosting is done currently by 3ix.com with the domain licensed through GoDaddy.Com. We are owners of: oursmedicina.org, ourmedicina.com and ourmed.org which all should be consolidated and point to www.ourmed.org

Part B: Design and Navigation

Design: Currently OurMed.Org appears too much like Wikipedia. We seek a unique design that emulates OurMed’s values: Non-Profit, Community, Integrity, Trust and Credibility. Although we have a logo and a few pictures in the public domain, we are open to a new look and logo (wholly owned by OurMed in perpetuity). A new logo may be apart of the design process. The homepage (referenced in the technical specifications) is only a draft and will be first deliverable to OurMed.

Navigation: It is expected that the vendor will be able to warrant that the web pages will be accessible on all popular operating systems (Windows, Macintosh, Linux) and popular browsers

(IE, Firefox, Safari). Ideally, the pages can be served in text-only mode where internet access bandwidth is extremely limited.

Part C: Data and Traffic Requirements - includes the relational database, search features, user profiles, data storage and access control.

A successful proposal will combine quantitative and qualitative methods to document and explore the scope described above.

Access Control: A user login access control system is expected.

- We anticipate 3 types of users: not logged in, registered as a general user, and registered as a medical professional or special user. Displays for all users should be the same.
- Not logged in users should have the ability to read articles, use symptom/disease matcher, search for doctors, hospitals, drugs and medical devices. Once they request to post or edit data, they would get a challenge screen that would suggest that they log in or register; otherwise they would not have access to the additional content.

Relational Data Model:

It is expected that there will be an underlying relational data model that supports all the key entities needed by the site that are tied together by postal code and other common identifiers.

- Registrants
- Doctors
- Organizations (Healthcare Providers such as Hospitals, clinics, blood centers)
- Articles
- Drugs
- Medical Devices
- Diseases
- Donors
- Sponsors

Data Regulatory Issues:

No protected health information (PHI) that would otherwise be confidential is anticipated on the site other than when a user posts their own information.

Content Management:

Although not required, a CMS may be used to upload .pdf files. Momentarily Medi-Wiki software only uploads image and text files. A mechanism may be needed to be in place for OurMed staff to maintain changeable content on the web pages (eg, News).

Visitor Traffic:

On the onset, the site should be able to handle the following traffic:

- Launch to Month 12: 10,000 hits/day
- Months 13-24: 500,000 hits/day
- Months 25-36: 1,000,000 hits/day

Quality Assurance:

During the course of the development period, OurMed will have on staff an analyst to test deliverables. Thorough testing by OurMed staff and the volunteer community will be commence after receipt of final deliverable.

Part D: Web Usage Statistics

- Tracking hits, popular pages, user activity
It is expected that web usage statistics will be available and easily derived from server access logs as well as the relational data base. Such statistics include page hits, site visits, where the site is being used, number of registrants by type (individual and organizational; location).

Part E: Email Support

OurMed currently uses Google Apps. and may need a tool to communicate with users or subsets of users. For example, we might want to

- Remind certain individuals to update their information; Though not a strict requirement, an automated mechanism for culling contact information for entries that have not been updated in a particular amount of time would be useful. OurMed staff should be able to adjust the periodicity of such an automatic email service.
- Send an email to everyone who meets certain criteria, based on information in their profile fields. For each email we would create new text and select the recipient group. For example, we might have a standing email that is sent to everyone who identifies him or herself as an MD or PhD.
- Send email when a special event is pertinent to a selected group of our community. The group will be defined by search parameters (based on profile data) at the time the special event is being announced.

Part F: Globalization – We seek proposals that incorporate multi-language content solutions available in all countries in the world.

IV. Project Terms:

1. Contract

Upon awarding the contract to the bidder, bidder will provide a contract that is subject to approval by the OurMed team.

2. Letter of Indemnification:

All bidders will need to sign the letter of Indemnification (See Addendum A) and disclaimer statement. All information contained in this document must be treated confidential. If OurMed awards a contract to your organization then all the information provided by you in the proposal becomes a part of the contract. Therefore, please provide honest and true information.

3. Monetary compensation:

Payments will be made either on completion of the entire project or when certain milestones are met as motioned in the contract.

4. Receipt of Last Deliverable:

OurMed will thoroughly test all pages and links of new site within 30 days of receipt of last deliverable. Final payment will be made after confirmation of smoothly running and error-free site.

V. Format for Proposal

Your proposal in response to this RFP needs to address the requirements as stated above. In addition, it needs to address the following expectations in order that OurMed may have a clear idea of what is being proposed and the ramifications of these choices.

Please include the following materials in the proposal packet, preferably in the order indicated:

1. Proposal cover sheet / Executive Summary

This includes your full name and contact information, your company legal name and website, your proposed timeline for project completion and the overall expense (budget) you require to complete this project.

2. Project Implementation Process and Communications

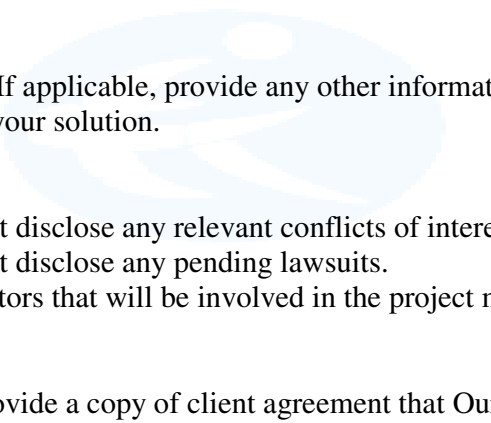
- a. Describe the general process your company will follow to build the website.
- b. Describe your company's project management practices.
- c. Describe how your company will work and communicate with OurMed while building the website, including lines of reporting and any tools used.

3. Cost Proposal – Break out project costs by the following categories:

- a. Graphic design
- b. Site development: Identify costs by functionalities and work items. Include production hours and hourly rates as well as all other expenses, e.g., third-party application service providers and license fees.
- c. Maintenance and support: Identify costs for ongoing maintenance and support that are necessary, desired or likely to be needed following development of the website, including annual costs of any third-party application service providers and license fees.
- d. Hosting: Identify whether OurMed *must* or is highly encouraged to host with your company. If hosting is provided as an option or requirement, provide pricing options for hosting, and information on the host's backup and recovery policy. Otherwise, provide a cost estimate for hosting via a suitable third party.
- e. Training: Identify any costs for training OurMed staff to use the site.
- f. Technical assistance: Identify costs for providing maintenance and technical support to OurMed post-project completion. We anticipate that this cost would be on an hourly basis.
- g. Optional items: List costs for additional licensing, optional functions or work elements proposed by either OurMed or you.

4. Project Narrative: Describe the overall work to be performed on the project as well as on each of the project's work elements. (This is an opportunity for you to demonstrate that you understand the project and that you have the expertise to deliver a well-designed website.)
 - a. Fully explain choice of platforms for building the site. Address the pros and cons including long-term support maintenance considerations.
 - b. Include elements described in the scope of work as well as other elements recognized as necessary by you.
 - c. Overall design and approach. What type of design do you propose? How would methods address OurMed's mission, scope and large traffic anticipated on the website?
 - d. Describe any questions or activities that you think might be missing in our description of the scope and activities. (OurMed welcomes suggestions that differ or expand on the project description described earlier.)
 - e. Workplan for implementing the various evaluation components. Please describe responsibilities, timeframes, and deliverables.
 - f. The challenges you see in this project and how to address them.
 - g. Technical Specifications: Address important technology information and specifications used in your solution, e.g., languages used, platform, modules, database, etc. (If applicable, provide information for accessing any online demos or examples.)
5. Timeline: Provide a timeline of the website design and development process from start to finish including testing and other key times for OurMed staff involvement. If OurMed were to select you for the project, indicate how much time you would need before starting work. When appropriate, include deliverables every two months. Describe the confidence in the timeline, and strategies (and possibly, remedies) to counter project slippage.
6. References: Please provide three examples of similar projects in size and scope that your organization has coded with open source software. Limit your submission to only samples of your work that are most relevant to this project. Please provide direct links to each sample.

Briefly describe the work you have done for each website and provide a contact name, e-mail address and telephone number for each reference.
7. Website Development Team: Provide resumes for key team-members who will be engaged with the design and development and their respective contributions to the project. List the qualifications, capacities, and roles of your key team members. Indicate the level of commitment your company has to ensuring that the individuals described will in fact work on the project as indicated. Also, a description of any services that will be outsourced is required.

- 
8. Other Information: If applicable, provide any other information that is not covered above but is important to your solution.
 9. Disclosures:
 - a. Candidates must disclose any relevant conflicts of interest.
 - b. Candidates must disclose any pending lawsuits.
 - c. Any subcontractors that will be involved in the project must be identified in the proposal.
 10. Contract: Please provide a copy of client agreement that OurMed will be required to sign.

VI. Proposal Submission

Proposals must be received by email, preferably in one file in Adobe PDF or Microsoft Word format, to the OurMed team rfp@ourmed.org no later than 5:00 PM Eastern Time on Monday, 24 July, 2009. Proposals receipt will be acknowledged by a return email within 24 hours or the next business day. *Hardcopies will not be accepted.*

VII. Selection Criteria

The ideal development team will have previous experience developing open source MediaWiki platform. The review committee will use the following criteria to assess proposals:

- Clarity of theoretical framework or site architecture, project goals, hypotheses, methods, and outcomes;
- Proposed analytic methods, including quality and source of data to be used;
- Previous experience working with relevant stakeholders to collect primary data from multiple sites;
- Relevant skill set and qualifications, experience developing a similar platform;
- Appropriateness of proposed budget and project timeline; and
- Plan for timely communication and dissemination of each development phase to OurMed staff and community. All funding decisions are made by OurMed, often in consultation with external experts. OurMed does not provide individual critiques of proposals submitted.

VIII. For More Information

If you have any questions about OurMed.org or the proposal submission process, please contact the OurMed team at rfp@ourmed.org

Please note that the deadline to submit proposals will be Friday, 24 July 2009.

Addendum A: Letter of Indemnification

(Please sign and include the following letter in your contract)

Contractor_____ hereby releases and shall indemnify, defend, and hold harmless OursMedicina, Inc., its subsidiaries, affiliates, officers, agents, employees, successors, assigns, and authorized representatives of all of the foregoing from and against all suits, actions, legal or administrative proceedings, claims, demands, damages, liabilities, interest, attorney fees, costs, and expenses of any kind or nature, whether arising before or after completion of the work hereunder, and in any manner directly or indirectly caused, occasioned, or contributed to in whole or in part, or claimed to be caused, occasioned, or contributed to in whole or in part, by reason of any act, omission, fault, or negligence of OursMedicina, Inc., Contractor, Contractor's subcontractor, or of anyone acting under Contractor's direction or control or on Contractor's behalf in connection with or incidental to the performance of this contract. Contractor's aforesaid release, indemnity, and hold harmless obligations, or portions of applications thereof, shall apply even in the event of OursMedicina's sole negligence or strict liability. OursMedicina, Inc. shall be indemnified and held harmless to the fullest extent permitted by law. If any portion of this indemnity clause is invalid or unenforceable, it shall be deemed excised and the remaining portions of the clause shall be given full force and effect.

The successful contractor will require all its subcontractors or anyone acting under its direction or control or on its behalf in connection with or incidental to the performance of this contract to execute an indemnity clause identical to the preceding clause, specifically naming OursMedicina, Inc. as indemnitee.

Contractor _____

(Signature)

(Print Name)

Title _____

Date _____

Addendum B: Q&As from Bidder's Conference

July 13th, 2009. Moderator: Professor Stan Kachnowski, OurMed Board Chairman

(Includes questions covered during the conference as well as questions sent to OurMed post-conference).

1. Are there any possibilities on categories (like doctors, medicine, PhD's) to be added more in future?

Yes. We would like this application to be built so that there are many possibilities for expanding each category base. The idea is that this application will be open source and the categories are going to be scalable to as much degree as possible.

2. Who specializes in online secure financial or any other transactions for donation?

The site will be donor driven. The open source and open architecture of the site will require a secure online financial transaction engine so that donations can be made to the site.

3. Have to play video files regarding any of the information? If so, what kind of player should include?

Yes. We ask to include the top three that allow be modified if needed in the years coming. So that if other players become top three in the future there is a switch that can be allowed to occur.

4. Whether or not the user can in fact profile the doctor/physician? If so, who will set the visibility of fields that has been suggested for a general user?

The user profile of the physician will be developed by the physicians themselves, so physicians can add their practice and will be able to add themselves. Also, users will be able to add physicians, drugs, treatments, pharmacies, hospitals, alternative medications and other stakeholders in the health care system, so that this profile setting of the major content (including disease information) will allow the database to grow extensively and will allow different users to bring in different content fields as needed.

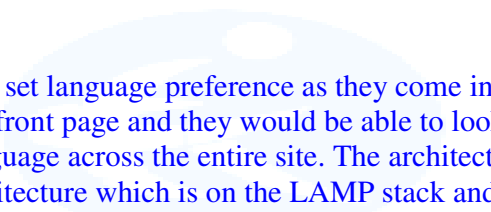
5. Should there be appointment reminders automatically delivered for the General user?

We are not planning this for this version, but it would perhaps be a good idea for later versions.

6. Should there be a way to store Health care industry/Symptom details in our database or a way to integrate with any other site information?

No, in terms of symptom details for the user this is not meant to be a personal health record. But in terms of symptom details for the disease, yes we want to allow the users to enter symptom details for the diseases into the database.

7. Will the user has rights to set the language as per his/her preference? If so, is it applicable only on front page?



The user will be able to set language preference as they come in to the website and that would actually go beyond the front page and they would be able to look at all of the pages that have been set up in their language across the entire site. The architecture of this will be very much like the Wikipedia architecture which is on the LAMP stack and open source and that's something that is a key attribute across this entire project.

8. What is the overall budget of the project?

The budget information will not be released prior to the bid. However there is a substantial budget allocated to this project given the scale and bandwidth it will require and also considering the aggressive deadline on this project (initial phase due by September 15th and the project completed by the end of the year).

9. What is the project delivery schedule?

The project delivery schedule will mainly be determined by the project team and can be fashioned as part of the project team's requirements.

10. What is the technology for implementation?

The technology for implementation needs to be open source, so preferably would like to build upon the wiki LAMP stack (Linux, Apache, MySQL and PHP). We also have some interest in Berkeley DB, which is a new database coming out of Palo Alto that we like. The idea is to build on what the open source community has already established.

11. What are the options regarding server hosting?

The options regarding server hosting are completely up to the bidder. The bidder should put options in the proposal as they see necessary.

12. What is the nature of the organization?

The organization is a not for profit 501(c)3 established in the US. It is an open source, open book, open license company and website that is meant to be transparent. Please visit www.OurMed.Org for more details.

13. Can you please specify as to what will get covered under eastern medicines and Alternative therapies?

The site is meant to be open and scalable, so any medicine or therapy whether eastern or western that the community wants to put on the website, should be allowed to be posted.

14. Will the site take care of physicians around the world? Will there be any functionality changes considering different geographies?

The functionality will remain similar across the world, very much like Wikipedia. So, that physicians from around the world will be able to go on line and using a well developed editor enter their disease related information with geography such as postal code. This will provide their citizens with open source information as authoritative.

15. It appears that the site will be multi-lingual. If so, what are the languages to be supported?

We are looking for the top ten languages appearing on Wikipedia. So, if you go to their site and look at the top ten languages in terms of the top ten articles, that would be an identical consideration at we would be looking at here.

16. How does verification of physician's and DEA certification number get handled for regions other than US?

We are still looking for a resolution to this. We definitely need to include physician's and drug, disease and medical device information from around the world, so we would want to make sure we can validate physicians in an efficient way from different countries across the world.

17. How will the fields for the physician's profile be decided and which features will be added in the next phase?

The functionality for the next phases has been developed but only at a very high level so that is something that is not open yet on this call.

18. Considering that the functional requirements are not yet complete (quite a few UAQ), what shall be the contingency factor shall we consider for our estimates for the complete functionality?

Yes, there are a number of UAQ's. The contingency factor is completely up to the bidder as how they would include it in their contingency, but I would definitely include it.

19. What are the non-functional requirements for this site like performance, technology requirements, language options, interface standards/requirements etc.?

These requirements would be a part of your bid and how you will address those will be important to include in your response to this.

20. What is the background and would it be in the same wiki format?

The idea is it would be based on the same open source and it would have wiki software and the wiki component would still be embedded in there so that the left hand side so that the community would be able to post information related to diseases, hospitals, doctors and drugs in a wiki format. The right hand side would be open for discussion and comments on any of these topics.

21. Content related questions:

a. Will the Inbox provide messaging only between registered users, or does it need to provide e-mail send/receive capability to external addresses?

The inbox is intended to provide messaging only between registered users and it would allow them to have messages on changes shoot to their emails externally.

b. Is there any approval work flow for editing of content?

The community would be in charge of approving the workflow and monitoring the content.

c. It is assumed that verification of identity actions will be performed manually, outside the system, and based on the result the user's profile will be updated in the system.

At this point we are thinking that the verification of experts in the US will be done by the process of validating physicians using their DMD number. In other countries we would have to develop alternative validation systems. This is still an unanswered question that is under discussion.

d. How will information such as hospital statistics be kept up-to-date?

The content will be maintained by the community, so it will be up to the community to make sure the content is current and up to date.

e. It is not clear which type of user can upload/edit/create what kind of content.

The content a user may upload simple text that can be uploaded into a wiki, or a simple copy and paste that they can upload to a screen or they would be able to upload documents and pdfs. We are not looking for users to be able to upload other user's pdfs and doing that online. Simply being able to load docs so that users can upload and view documents and other content such as videos and images that are uploaded by other users. A read and write interface should be created.

f. What are the existing technical environment (if any) that we can leverage – products, technologies, skills, operating system, database, etc. Are there any preferences or requirements for the target technical platform?

The technology that we are moving forward with is the LAMP platform, as a good chunk of the site will be based on the wiki software.

g. What integrations might be necessary?

As you see on the website now, there are no other integrations necessary. So it's simply the donation engine and some of the disease information will need to be migrated into the new site.

h. Can we use any standard payment processor, or are there any specific requirements?

There are no specific requirements regarding the payment processor and we are interested in anything the bidder suggests.

i. What is the timeframe for the implementation?

We are looking to have this up and running by the end of the year.

j. Where will the IT infrastructure be located?

Currently the IT infrastructure is based in the US but we are comfortable working with infrastructure from any environments around the world.

22. Is the functionality list on page 3 of the specifications document based on priority?

The major priority for the website is to get the front page set up so that it does not look like another Wikipedia. The idea is to get the front page to display the breadth and depth of the information in front of the users.

23. Each doctor/physician that creates an account needs to have their credentials validated - namely their home address, the last 4 digits of their SSN (US Social Security Number) and the DEA Certification Number. It's mentioned that the doctor/physician's identity will be checked by calling them up directly by phone and/or checking their DEA Certification Number against a database. Will this database of current practicing doctors in the US be provided to Our Med on a regular basis or will OurMed connect to this database via an API?

We are not looking to have all these validation factors in place, just one would be enough.

24. Our Med will allow "highly qualified professionals" such as doctors, scientists, PhDs, etc. to upload articles. Such individuals will be classified as "special users" and are verified during the account creation process. Besides doctors, what procedures and protocols will OurMed use to verify the identity of special users?

This is still open for debate and if the bidder has ideas those are welcome too. We are looking at fax methods to verify credentials of special users. The manual process of doing this becomes quite burdensome, so we are looking for electronic methods to do this.

25. Would a database with a list of existing US hospitals be provided to OurMed before the site launches or are you expecting hospital administrators to provide information on hospitals?

There are databases available on doctors and hospitals in the US and are available for purchase. So, those would be available to OurMed.

26. When a user sets a language preference, all of OurMed's navigation, forms, site content pages (About Us, Goal, Mission, Contact Us) will show text in the language that was selected. But how about the user generated content? Are you planning on to translate user generated content (such as comments) into the user's language preference? (Such translation can only happen word for word and do not account for context.)

The users would actually go into a site in their own language. A French site would allow posting in French and comments in site.

27. Is a 'special user' an admin?

The OurMed community is creating an organizational chart. New users will be volunteers and depending on their contribution to the community as time goes they will gain privileges and an admin status based on their acceptance into the community.

28. Do you require any check of disc space? I mean do you want any limit of data size as user can upload any number of articles?

No. We do not think it will be necessary for the users. But disc space check would be important for the admins to have.

29. You mentioned to show the source code to the users? What should be the way to show the data?

This application will be open source. In terms of the production site, there should be a beta version or testing version of the site and sub-code can be downloaded so that volunteer developers can modify the code on their own computers and submit to a test server for authorization of senior developers prior to being uploaded on the production site. And this must be done in a way so that there is a custom maintained site with volunteers and developers coding and developing around the world. This is a significant point that we are looking for developers to come up with a solution for as this fundamental platform is being built.

30. What is the time line for this project?

This entire project should be completed in 6 months with project parts completed in increments of 2 months. It is up to the developer to define the work flow of this project.

31. Are you looking for a flat rate or will you work by hourly rate?

We are looking for a flat rate.

32. Are there any specific technologies you want site built with? Can we use any CMS here, if so which CMS?

Yes. The site should be built with LAMP (Linux, Apache, MySQL, PHP). CMS is not required.

33. Do you have web hosting setup?

No. We do not have any web hosting set up.

34. Are you expecting a fully offshore model or a hybrid of onsite and offshore model?

Either one is fine.

35. Are there any separate proposal to be submitted for the System Design, Development and Maintenance phase?

No.

36. What are browsers it should be compatible?

Explorer, Safari, Mozilla Firefox

37. What are next steps we have to adopt to win this opportunity?

As next steps you need to submit your proposal packet, three of your most relevant open source references and place your bid by the indicated deadline.

38. We would like to know if you are a firm or you are from the hospital. We would also like to know your role in the allotment of the project.

We are an independent 501 (c)3 unaffiliated with any institution. We are the funder and improver of this project.

39. We would not be providing you the license of any platform like Windows and other Designing and Development softwares that would be required in the development of the project. Are you O.K. with this?

Yes. We are anticipating to build the entire software on an open source platform.

40. Do you require the source code of the projects we would develop?

Yes.

41. What are expected loads on this site; hits, concurrence etc. and what is scalability that is desired in next 2 – 3 years?

We are anticipating 93 million users. At this time, the site should be built for 10,000 hits a day.

42. Is there any 3rd party integration that is desired like databases, blogs, forum etc.? How about payment gateways and any other information exchange?

No business forums will be added. Payment gateways for the donation card should be included.

42. What is the project delivery model that you envision? Will there be participation from OurMed team in the project other than requirement definition and user acceptance testing? Who will maintain and support the project post implementation?

The project delivery schedule is up to the vendor. The participation of the OurMed team will be high. Post implementation we would like the developer to maintain the site at a separate hourly rate.

43. Are there any regulatory requirements that need to be adhered to?

No.

44. There is an existing OurMed site. Will the new architecture accommodate the existing site content as well? Do we need to estimate for the data migration as well?

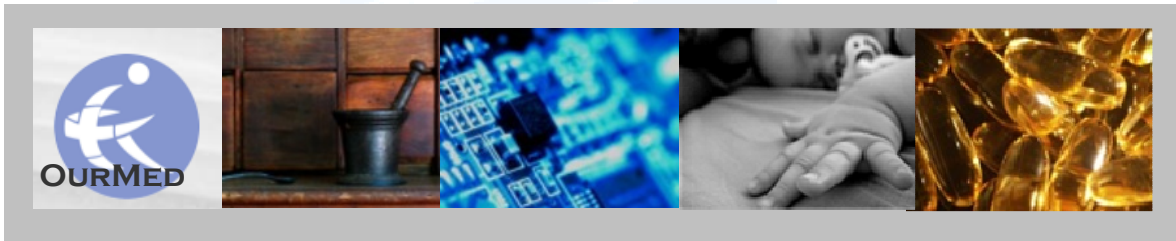
Yes. We would like to migrate everything.

45. What all are the security and privacy considerations that are required for this site? It appears that this site will be dealing with PHI (Patient Health Information), what kind of security and privacy considerations do you expect in the developed portal?

No PHI is required.

46. What kind of audit logs are required for this application?

Standard wiki logs for tracking and blocking IP addresses are required for this application.



OurMed Specifications Table of Contents

- 1.0 Introduction**
 - 1.1 Our Mission**
 - 1.2 Our Goal**
 - 1.3 Layout of the home page**
- 2.0 Browse disease by category**
 - 2.1 Browse disease alphabetically**
 - 2.2 Browse disease by health category**
 - 2.3 Most common diseases and conditions**
 - 2.4 Article Template**
- 3.0 Doctor/Physicians Profile**
 - 3.1 Account set up page for a doctor/physician**
 - 3.11 Validation of all the fields**
 - 3.12 Verify Doctor/Physicians identity**
 - 3.2 Doctor/Physician profile view to a general user**
 - 3.21 Wiki (Left Panel) and Blog (Right Panel)**
 - 3.22 Hospital Affiliation**
 - 3.23 Awards won by Doctors**
- 4.0 General user/patient profile**
 - 4.1 Validation of fields**
- 5.0 Collaborative Encyclopedia**
 - 5.1 Images**
 - 5.2 Discussion**
- 6.0 User Comments**
- 7.0 Search by different categories**
 - 7.1 Search a Doctor**
 - 7.2 Search a Hospital**
 - 7.3 Drugs Search**
 - 7.4 Search Articles**
 - 7.5 Search based on some other category**
- 8.0 Hospital Profile view**
 - 8.1 Awards won by a hospital**
- 9.0 Career opportunities at OurMed**
 - 9.1 Account set up**
- 10.0 Contact OurMed**
- 11.0 Donate to OurMed**
 - 11.1 List of Donors**
- 12.0 Personal Inbox for users**



- 13.0 Current events and news on health care**
- 14.0 Discussions**
 - 14.1 Discussion forums and groups**
- 15.0 Site statistics**
- 16.0 Privacy policy**
- 17.0 Disclaimers**
- 18.0 Most common diseases and conditions**
- 19.0 Caregiver Support**
 - 19.1 Support, encouragement and good wishes for those who are ill**
- 20.0 Health and lifestyle**
 - 20.1 Symptom checker**
- 21.0 Alerts**
- 22.0 Language preference**
- 23.0 Bug reports**
- 24.0 Feedback and Suggestions**
 - 24.1 Feedback on new ideas**
- 25.0 Alternative Medicine**
- 26.0 First Aid**
 - 26.1 Disclaimer**
- 27.0 Drugs**
 - 27.1 Animal Medicine**
- 28.0 Top Searches**
- 29.0 Most Recent**
- 30.0 Top Ratings**
- 31.0 Popular this Week**
- 32.0 Recent Website Changes**
- 33.0 Test and Procedures**
- 34.0 Medical Devices**
 - 34.1 Medical Devices Ratings**
- 35.0 Help Guide**
- 36.0 Fun Space**
- 37.0 Recognition**
- 38.0 History**
- 39.0 View Source**
- 40.0 Account set up for different user types**
 - 40.1 Account set up page for Scientists/PhDs**
 - 40.11 Validation of all the fields**
 - 40.12 Verify Scientist/PhD identity**
 - 40.2 Account set up for Allied health professionals**
 - 40.21 Validation of all the fields**
 - 40.22 Verify Allied health professionals identity**
 - 40.3 Account set up for Alternative medicine professionals**
 - 40.31 Validation of all the fields**
 - 40.32 Verify Alternative medicine professionals' identity**
- 41.0 Conclusion**
- Unanswered Questions**
- List of Diseases**
- List of First Aid Topics**
- List of Health and Lifestyle Topics**
- References**

OurMed Functionality List

1. About OurMed: mission, goal etc
2. Top Searches
3. Most Recent on diseases, drugs, hospitals etc
4. Top Ratings: diseases, drugs, hospitals etc
5. Popular this week: diseases, drugs, hospitals etc
6. Images
7. Search Doctor
8. Search Hospital
9. Search Drugs
10. Search Articles
11. Search based on some other category: can add more categories if required
12. Recent changes to OurMed i.e. new functionality added
13. Current events & news on healthcare
14. Discussions, forums etc.
15. Contact OurMed
16. Donate to OurMed
17. List of Donors
18. Upload a file: only special users
19. User Comments on articles
20. Reply to Comments
21. Volunteer for OurMed
22. Edit a file
23. Career at OurMed
24. View Source
25. History
26. Privacy policy
27. Disclaimers
28. Site Statistics: Number of hits, what else?
29. Account login
30. Account set up for doctors
31. Account set up for a general user
32. Account set up for a patient
33. Account set up for scientists/PhDs
34. Account set up for alternative medical professionals; can group alternate medicine, chiropractor etc
35. Account set up for allied medical professionals
36. Validations of fields entered for different kinds of users
37. Browse disease
38. Most common diseases and conditions
39. Verify the identity of doctors/physicians
40. Verify the identity of scientists/PhDs
41. Verify the identity of allied health professionals
42. Verify the identity of alternative medicine professionals
43. Doctor/physician profile view
44. Appointment information
45. Hospital affiliation
46. Hospital profile view

- 
47. Patient ratings on doctors
 48. Patient ratings on hospitals
 49. Hospital statistics like number of patients treated, complications etc
 50. Compare hospitals
 51. Awards won by a hospital
 52. Awards won by doctors
 53. Patient ratings on drugs
 54. Collaborative encyclopedia by special users. Need to make a list of users
 55. Upload a file
 56. Personal inbox for users
 57. My favorites
 58. Health and lifestyle
 59. Symptom checker
 60. Question and answers, polls, opinion of professionals
 61. Fun space
 62. Caregiver support
 63. Support, encouragement and good wishes for those who are ill
 64. Get recognized for your contribution
 65. Set alerts for topics of interest
 66. Report an illegal user or abuse
 67. Language preference
 68. Bug reports and issues: users can report these to improve the website
 69. Feedback and suggestions
 70. Get feedback on new ideas
 71. Discussions between different editors to make an article better.
 72. Alternate medicine
 73. Medical devices
 74. Ratings on medical devices
 75. First aid
 76. Test and procedures like ultrasound etc
 77. Drugs
 78. Animal medicine
 79. Help Guide

1.0 Introduction

1.1 Our Mission

OurMed's mission is to optimize the provision of healthcare information for the betterment of all health and wellness participants, including hospitals and healthcare facilities, physicians from all disciplines of both Eastern and Western medicines, and the vast numbers of patients that are served throughout the world. We are committed to providing free license to accurate, non-commercial healthcare information throughout the world.

1.2 Our Goal

OurMed will improve healthcare around the world with accessible and clean information in an age when government, non profit, and private healthcare systems face serious financial strain. Patients, doctors, pharmacists, nurses, and caregivers must have accurate, timely and adequate information about products and services that is of the highest quality. OurMed.org volunteers are committed to improving the quality of the global healthcare system through sharing their learned expertise and their personal experiences.

1.3 Layout of Home Page

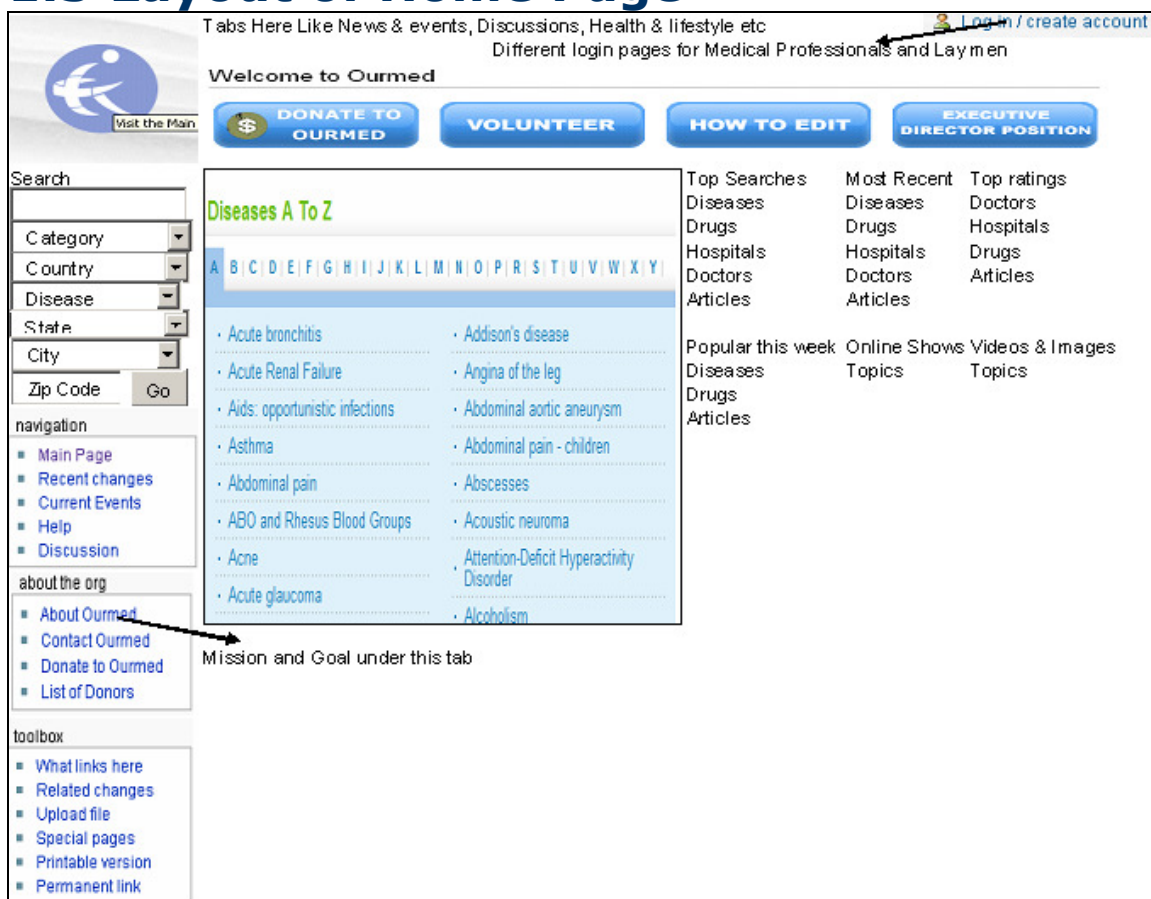


Fig 1.0

page (fig 1.0) shows the layout of the front cover. The front cover is a simple design, but it is a good example of the presentation of the requirements but is not necessarily the final design of the architecture and graphic design.

There are three options:

- There are different ways in which different types of diseases can be displayed. In fig 1.0, browsing diseases by category has been considered and ideally, it would be best to have disease groupings to drill down from. The exact format to be used has to be determined.

Diseases A To Z	
A	B C D E F G H I J K L M N O P R S T U V W X Y Z
• Acute bronchitis • Acute Renal Failure • Aids: opportunistic infections • Asthma • Abdominal pain • ABO and Rhesus Blood Groups • Acne • Acute glaucoma	• Addison's disease • Angina of the leg • Abdominal aortic aneurysm • Abdominal pain - children • Abscesses • Acoustic neuroma • Attention-Deficit Hyperactivity Disorder • Alcoholism

Browse Health Categories	
Body Location/Systems » Blood/Lymphatic System » Bones, Joints and Muscles » Brain and Nervous System » Digestive System » Ear, Nose, and Throat » Endocrine System (Hormones) » Eyes and Vision » Heart and Circulation » Immune System » Kidney and Urinary System » Lungs and Breathing » Mental Health and Behavior » Mouth and Teeth » Reproduction and Sexual Health » Skin, Hair, and Nails	Health and Wellness » Environmental Health » Food, Nutrition and Metabolism » Substance Abuse » Wellness & Lifestyle Conditions/Diseases » Cancers » Genetics/Birth Defects » Infections » Injuries and Wounds Procedures » Procedures and Therapies » Symptoms and Manifestations

©

2.3 Most common diseases and conditions: Drugs

Most Common Diseases and Conditions:

Acne	Colds & Flu	Gout	Mental Health
ADHD	Constipation	Hair Loss	Migraine
AIDS/HIV	COPD	Hayfever	Osteoarthritis
Allergies	Depression	Heart Disease	Osteoporosis
Alzheimer's	Diabetes (Type 1)	Hepatitis A	Pain
Angina	Diabetes (Type 2)	Hepatitis B	Psoriasis
Anxiety	Diarrhea	Herpes	Rheumatoid Arthritis
Arthritis	Eczema	Hypertension	Schizophrenia
Asthma	Erectile Dysfunction	Hypothyroidism	Seizures
Bipolar Disorder	Fibromyalgia	Incontinence	Sexual Health
Bronchitis	Fungal Infections	IBD (Bowel)	Stroke
Cancer	Gastrointestinal	Insomnia	UTI
Cholesterol	GERD (Heartburn)	Menopause	Weight Loss

Fig 2.30

Each disease should be linked to an article from the encyclopedia section (reference section 5.0) that describes the disease along with the common symptoms. These articles should be posted by qualified health professionals such as doctors (licensed physicians). Non-professionals will still be able to post upon approval of the professional community (reference fig 5.0(c)). A complete list of diseases is provided at the end of the document.

All users should just be able to view articles and when registered, users may rate, comment or add to his/her favorites.

2.4 Article Template

A template should be available for articles on diseases. This template should have the following:

- Definition
- Symptoms
- Causes
- Need for medical help
- Risk if not treated
- Tests and procedures

In the definition section, a medical professional should provide a general overview of the disease. Non-professionals will still be able to post upon approval of the professional community (reference fig 5.0(c)).

“Symptoms” section should describe the common symptoms associated with the disease.

“Causes” section should describe the common causes of a disease.

“Need” for medical help should describe when to get medical help.

“Risk” if not treated should describe the risks an individual faces if not treated on time.

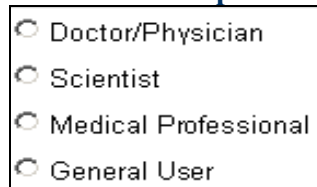
“Tests and Procedures” should describe the common test and procedures for diagnosing and treating the disease.

3.0 Doctor/Physicians Profile

Account login should be on the first page of the website as shown in fig 1.1. A registered user should be able to login in using his/her login details. In case of a new user, different kinds of user options should be displayed. A user should be asked if he/she is a doctor, scientist, medical professional, alternative or complimentary health professional or just a general user. Medical Professional may include students, professionals of alternative or complimentary forms of medicine (acupuncture, naturopathic, chiropractic, etc).

Radio buttons can be used for each of the options as shown in Fig 3.0

Different user options



☐ Doctor/Physician
☐ Scientist
☐ Medical Professional
☐ General User

Fig 3.0

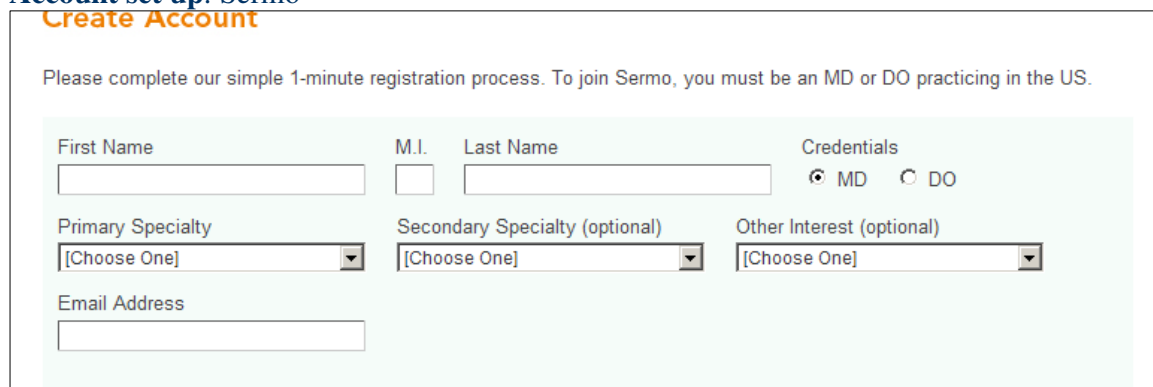
The various user categories are as follows:

- Licensed Physicians (Doctors)
- Scientists/PhDs
- Allied medical professionals
- Alternative medical professionals
- People (General User)

3.1 Account set up page for a Physician

When a user selects the first option then the account set up page for a doctor/physician should be displayed. Fig 3.10(a) and Fig 3.10(b) show a sample account set up pages.

Account set up: Sermo



Create Account

Please complete our simple 1-minute registration process. To join Sermo, you must be an MD or DO practicing in the US.

First Name 	M.I. 	Last Name 	Credentials ☒ MD ☐ DO
Primary Specialty [Choose One] ▼	Secondary Specialty (optional) [Choose One] ▼	Other Interest (optional) [Choose One] ▼	
Email Address 			

Home Address

i Your home address is used to verify your identity and credentials. Your personal information will never be shared without your express permission.

Address Line 1
 Address Line 2 (Apt, Suite, etc)
 City
 State
 ZIP Code
 5-digit zip

Date of Birth

mm / dd / yyyy

Social Security Number

i The last four digits of your SSN are used to verify your identity and credentials and provide you with immediate access to Sermo.
We do not store your SSN.

Last 4 digits
 XXX - XX -

Join Sermo

If you prefer not to enter your SSN you can [Verify by Fax](#), which requires your medical license or practice/hospital ID. This process takes up to two business days.

Home address and last 4 digits of the Social Security Code are used to verify the identity of the doctor/physicians – Note, for countries outside the US, another verification system will be needed.

Fig 3.10(a)

Account set up: American Health Network

Physician Information * Required		Patient Services	Specialties * (select 1 or more)	
Last Name*	First Name*	☐ Appointment Requests	☐ Addiction Medicine	☐ Oncology
Middle Initial	Display Name*	☐ Online Visits	☐ Allergy/Immunology	☐ Oncology Gynecologic
E-Mail	Birth date (mm/dd/yyyy)	☐ Patient Questions	☐ Anesthesiology	☐ Oncology Hematology
Gender	DEA Certification #	☐ Rx Refills	☐ Cardiology	☐ Oncology Radiation
Male		Appt. Paging	☐ Chiropractic	☐ Oncology Surgical
		Rx. Paging	☐ Clinical psychology	☐ Ophthalmology
		Visit Paging	☐ Critical Care Medicine	☐ Orthopedics
		Question Paging	☐ Dermatology	☐ Other (physician)
			☐ Diabetes	☐ Other Health Management
			☐ Emergency medicine	☐ Otorhinolaryngology
			☐ Endocrinology	☐ Pain Management
			☐ Epidemiology	☐ Pathology
			☐ Family Practice	☐ Pediatrics
			☐ Gastroenterology	☐ Physician Assistant
			☐ General primary care	☐ Podiatry
			☐ General Surgery	☐ Psychiatry
			☐ Gerontology	☐ Psychology
			☐ Hematology	☐ Public Health
			☐ HIV/AIDS	☐ Pulmonology
			☐ Immunology	☐ Radiology
			☐ Infectious diseases	☐ Reproductive Medicine
			☐ Internal Medicine	☐ Rheumatology
			☐ Medical Director	☐ Sports Medicine
			☐ Medical Genetics	☐ Surgery

Fig 3.10(b)

The account set up page should have the following fields

- First Name
- Middle name
- Last Name
- Specialty
- Email address
- Date of Birth

- 
- Educational Degrees
 - Experience
 - Certifications
 - Years of practicing
 - Phone number
 - DEA certification number (if US and other method of verifying if Non-US)
 - License Number
 - Password
 - Confirm Password

The fields have to be decided from the various sample account set up pages available.

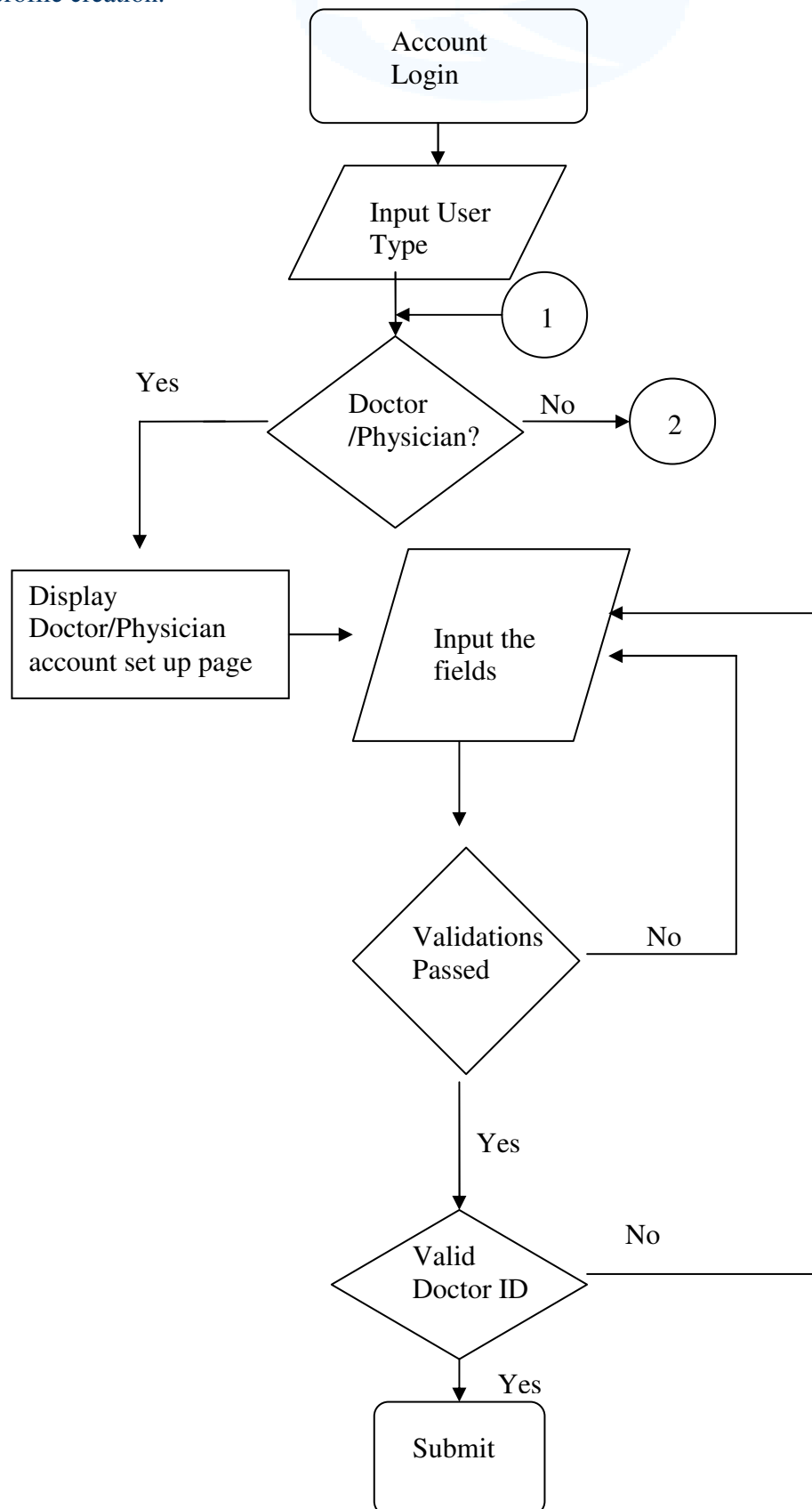
3.11 Validation of all the fields

Once a doctor enters the fields, certain validations should be performed. All the mandatory fields should be filled. Email address and date of birth should be validated. Other fields like years of experience should be a number. Similar validations on other fields can be performed. In case of date of birth, a validation such as the person should be above 18 years could be performed. An error message should be displayed if any of the validations fail.

3.12 Verify Doctor/Physician's identity

Once a doctor/physician enters all the required fields and after all the validations are performed, the identity has to be verified. The identity can be verified by using the DEA certification number. This can be done either by using some database or phone call by OurMed staff. In the case of a phone verification, an OurMed representative would call the doctor to verify his/her identity. An account will be set up only after verifying a physician's credentials. Upon registration, the user should get an email stating his/her verification status.

Figure 3.12a: The flowchart shown below shows the sequence of events for Doctor/Physician profile creation.



3.2 Doctor/Physician profile view to a general user

A doctor/physician profile should provide all the relevant information to a patient or a general user. It should contain details like address, specialty, gender, experience, personal details, disciplinary actions, malpractice history, patient ratings and hospital affiliations.

A user should not be able to rate the doctor. It can also contain appointment information though the exact implementation detail requires more work. This is still a UAQ (unanswered question-see appendix). User preferences are discussed in greater detail in the next section. Hospital affiliations can be part of the next phase. Also, it has to be discussed as to how to extract these details.

Acquiring doctor information: One option is for the doctors/physicians to enter all the relevant information but verification would be difficult. Another option is to get all the details from a trustworthy database system. We would still need to decide the fields in the doctor profile section. These complications can be avoided by keeping it simple in the beginning. All complex features can be added in the next phase. The doctor/physician can enter details like address, specialty and gender during profile creation as discussed earlier. Additional details like experience can also be asked during profile creation. In the experience section details like medical school, internship, residency and fellowship can be entered. Figure 3.20 shows an illustration of the doctor profile view and Fig 3.20(a), (b) shows a doctor profile view from Health Grades.

Thus the profile view can have the following fields:

- Doctor's Name
- Address
- Specialties
- Gender
- Experience
 - Medical School
 - Internship
 - Residency
 - Fellowship
- Nominations
- Nominate the Doctor

3.21 Wiki (Left Panel) and Blog (Right Panel)

One of the most useful screens on the site will be the ability to see physician authored information juxtaposed against user input. The below images are meant to portray the Meritocracy of Health Care information (the best of the medical world) against a blog. Users will ideally be able to input their postal codes and be able to see local information on physicians, facilities, drugs and pharmacies related to that postal code.

Examples: OurMed.Org (left) and YouBeMom.Com (right)

The image displays two side-by-side web interfaces. The left interface, OurMed.Org, features a search bar, a navigation menu with links like 'Main Page', 'Recent changes', and 'Current Events', and a 'Diabetes' article. The article text describes Diabetes Mellitus, its prevalence, and its effects. The right interface, YouBeMom.Com, shows a 'Weight Watchers' blog with a list of user posts and replies, such as 'I have not been successful on ww because even though I count points, I still eat candy and crap'.

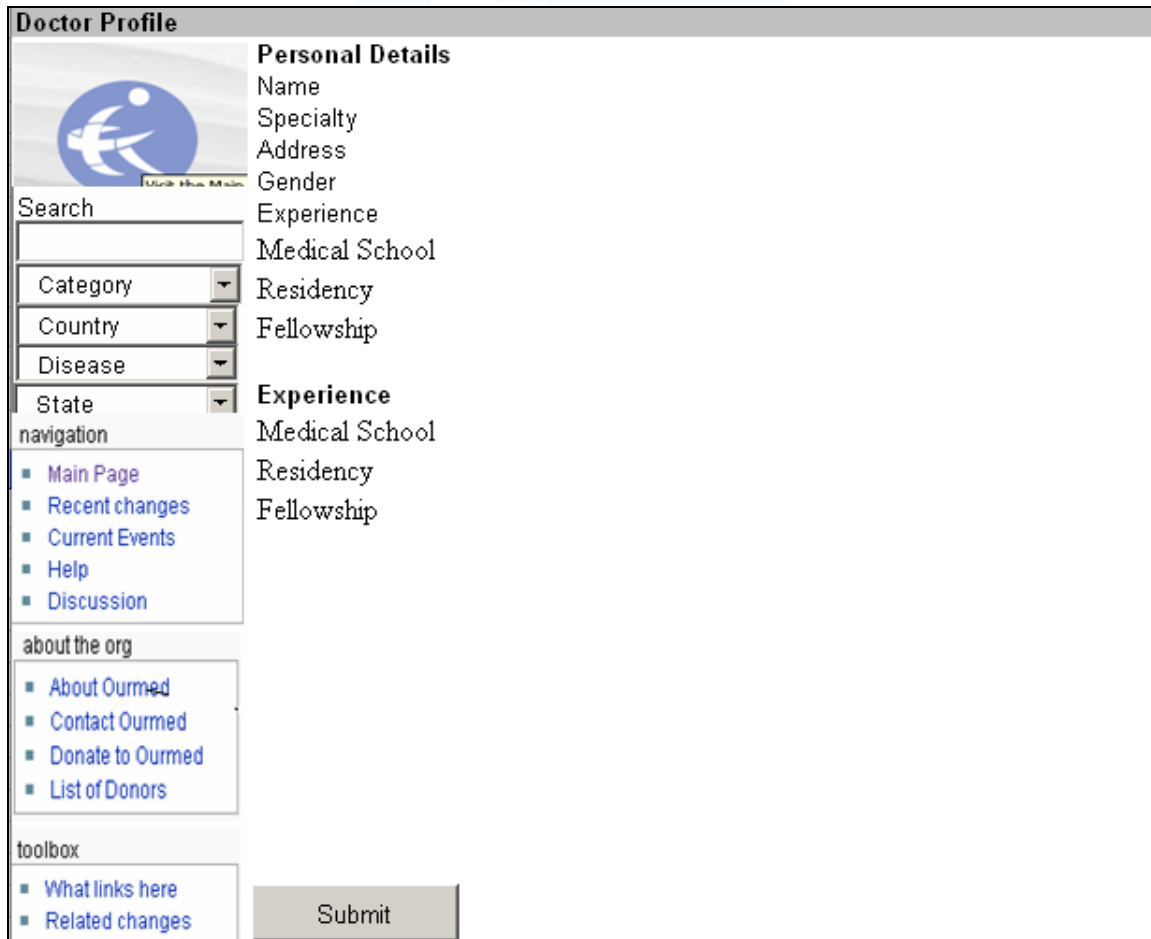
Fig 3.21a

In the above Figure (3.21a), users will be able to input Disease name, Country and Postal Code. The left panel will show the OurMed Wiki (physician authored information) and the right panel will allow for a blog about that particular disease/condition that is relevant to the users country and postal code.

On the right panel, it may serve us to consider Google's new blogging software "Google Wave" to both save in programming costs and to make OurMed a cutting edge technology site:

http://en.wikipedia.org/wiki/Google_wave

Doctor Profile View



The image shows a web form titled "Doctor Profile". It is divided into several sections. On the left, there is a sidebar with a logo at the top, followed by a "Search" section with a text input field and four dropdown menus labeled "Category", "Country", "Disease", and "State". Below these are three menu sections: "navigation" with links for "Main Page", "Recent changes", "Current Events", "Help", and "Discussion"; "about the org" with links for "About Ourmed", "Contact Ourmed", "Donate to Ourmed", and "List of Donors"; and "toolbox" with links for "What links here" and "Related changes". The main content area is titled "Doctor Profile" and contains two sections: "Personal Details" and "Experience". The "Personal Details" section lists fields for Name, Specialty, Address, Gender, Experience, Medical School, Residency, and Fellowship. The "Experience" section lists fields for Medical School, Residency, and Fellowship. At the bottom right of the form is a "Submit" button.

Doctor Profile	
	Personal Details
	Name
	Specialty
	Address
	Gender
	Experience
	Medical School
	Residency
	Fellowship
Search	Experience
	Medical School
Category	Residency
Country	Fellowship
Disease	
State	
navigation	
Main Page	
Recent changes	
Current Events	
Help	
Discussion	
about the org	
About Ourmed	
Contact Ourmed	
Donate to Ourmed	
List of Donors	
toolbox	
What links here	
Related changes	
	<input type="submit" value="Submit"/>

Fig 3.20

The figure above is to illustrate the doctor profile view. The actual page may look different depending on the architecture and graphic design. (Due to the possibility of a negative impact on physicians, no physician ratings are included as in previous drafts)

Doctor profile: Health Grades

Doctor Profile		Hospital Affiliations	Health Tools
Doctor Profile on Dr. Ban			
Address(es)	150 55th Street Brooklyn, NY 11220 Appointment Information		
Specialties	Pediatric Dentistry		
Gender	Female		

Fig 3.20(a)

The profile page can contain details like specialty, address, and gender.

Experience / Training	
	Specialties: Cardiology (HealthGrades has verified that Dr. Tak W. Kwan, MD is board certified by the American Board of Internal Medicine) A self-designated specialty or practice area is not equivalent to, nor does it imply, ABMS Board Certification or special training and competence.
	Internal Medicine (HealthGrades has verified that Dr. Tak W. Kwan, MD is board certified by the American Board of Internal Medicine) A self-designated specialty or practice area is not equivalent to, nor does it imply, ABMS Board Certification or special training and competence.
	Interventional Cardiology (HealthGrades has verified that Dr. Tak W. Kwan, MD is board certified by the American Board of Internal Medicine) A self-designated specialty or practice area is not equivalent to, nor does it imply, ABMS Board Certification or special training and competence.
	Medical School: State University of New York Downstate Medical Center Brooklyn, NY 1985
	Internship: University Hospital Suny Upstate Medical University Syracuse, NY Residency: University Hospital Suny Upstate Medical University Syracuse, NY Fellowship: University Hospital Suny Upstate Medical University Syracuse, NY 1992

Doctor Profile: Health Grades

Personal Facts

Personal Facts: Male
Years Since Graduation: 24

☒ HealthGrades Recognized Doctor HealthGrades Recognized Doctors are board certified in the specialty they practice; have never had their license restricted or revoked; are free of state or federal disciplinary actions; and are free of any malpractice claims.

Foreign Languages Spoken: Chinese

Disciplinary Actions

HealthGrades has examined disciplinary actions within the last five years from the Office of Inspector General and 50 state medical boards.
HealthGrades could not detect any disciplinary actions for Dr. Tak W. Kwan, MD as of 04/01/2009.
Note: HealthGrades reports on state and federal disciplinary actions (if any) from the previous five years.

Malpractice History

HealthGrades did not find any closed malpractice claims for Dr. Tak W. Kwan, MD in the states of California, Connecticut, Florida, Georgia, Idaho, Indiana, Massachusetts, Maryland, North Dakota, New Jersey, New York, Oregon, Tennessee, Texas, Virginia, Vermont, or West Virginia. [Learn More](#)

Fig 3.20(b)

Can certify doctors or ask some external agency to do the same

Survey Measure	# Responses	Definitely Not	Mostly Not	Not Sure	Mostly Yes	Definitely Yes
Spends an appropriate amount of time with patients						
Listens and answers questions						
Helps patients understand their medical conditions						
Patient trusts physician's decisions/recommendations in the patient's best interest						
Patient would recommend physician to family/friends						

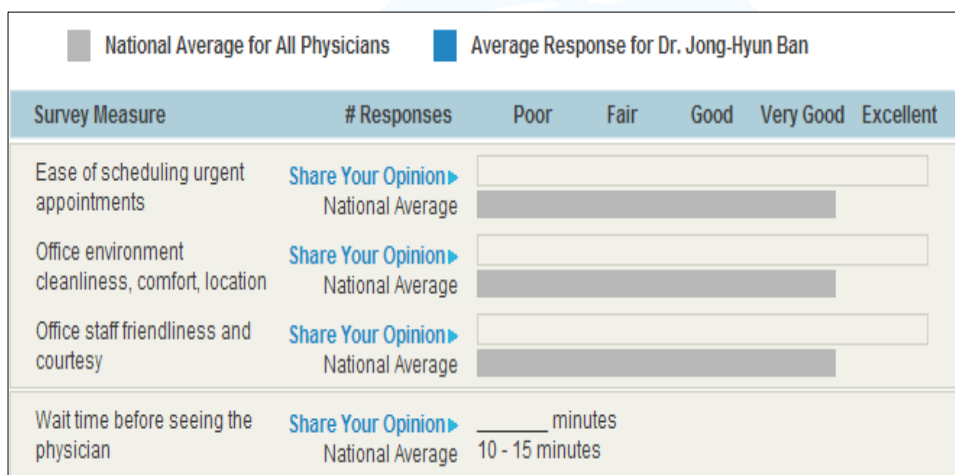


Fig 3.21(d)

3.22 Hospital Affiliation

A registered user should also be able to view doctors' hospital affiliation. During the account set up, doctors should have the option of entering their hospital affiliation. A user should also be able to rate these hospitals.

Alternatively, this data could be pulled out from a database. The approach has to be finalized.

3.23 Awards won by Doctors

OurMed should recognize the efforts of doctors in health care improvement by giving various awards to them. These doctors should be awarded based both on both patient nomination and their contribution to OurMed.

Awards based on patient nominations would have categories like, highest overall rating in a particular region, state or country. Another category could be highest positive rating in a particular region, state or country.

In the future, if we decide to add more ratings criteria then the awards category would also change accordingly.

To recognize a doctor's contribution to OurMed, there should be awards such as the highest overall rating of the published articles, most active contributor based on the number of articles published or edited etc. More awards can be added to the list and the OurMed user community may be able to suggest award types.

4.0 General user/patient profile

As discussed in section 3.0, in case of a new user, different user options are displayed (ref Fig 3.0). If the user selects general user then the account set up page for a general user should be displayed. A general user should be called people on OurMed. A general user should be able to select a check box to indicate that he/she is a patient.

The account set up can have fields like:

- First Name
- Last Name
- Email
- Educational Degrees
- Password

- Confirm Password
- Country
- Patient check box

More fields can be added as required.



General user profile: LinkedIn

To join LinkedIn, sign up below... it's free!

* **First Name:**

* **Last Name:**

* **Email:**
 We don't spam

* **Password:**
6 or more characters

* **Country:**

* **Postal Code:**
Only your region will be public, not your postal code

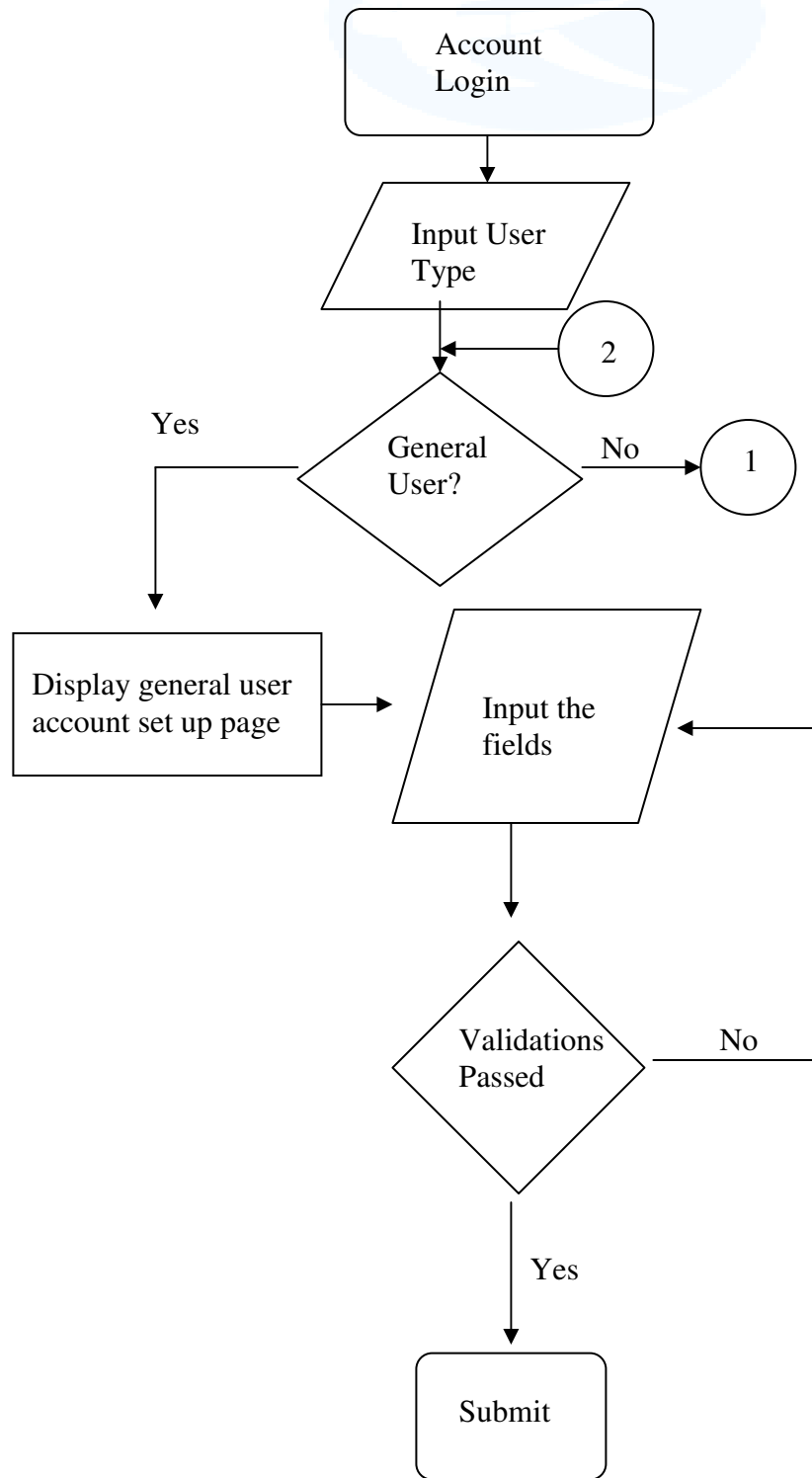
Fig 4.0

4.1 Validation of all the fields

Once a general user enters the fields, certain validations should be performed. All the mandatory fields should be filled. Email address should be validated. Error message should be displayed if any of the validations fail.

Figure 4.1a shows the sequence of steps for a general user.

Figure 4.1:



5.0 Collaborative Encyclopedia

The Wiki element is an important feature of the website as OurMed's operation and functionality is intended to be a collaborative community effort. As of June 2009, the current version of OurMed.org shows a fully collaborative encyclopedia with the wiki editor allowing new articles and edits from anyone. Our goal however, is to have a trustworthy and accredited healthcare information that does not misinform our readers.

In order to ensure that medical information is accredited, only qualified health professionals should be able to add and edit articles. These users can be doctors, scientists, PhDs or experts in alternative and complimentary medicine (i.e. naturopathic, ayurvedic, acupuncture, chiropractic) from practices throughout the world, though verification methodology of their identity remains unanswered. The identity of these special users should be verified during account creation and possibly in coordination with the OurMed Staff. Doctors (licensed physicians) should be able to add/edit articles on diseases, test and procedures, first aid and health and lifestyle. Scientists/PhDs should be able to add/edit articles on medical devices, test and procedures and drugs.

However, as was learned with the development of the Wikipedia community, content is greatly improved by general users such as students, retirees or stay-at-home-Moms. To incorporate their content, any registered user should be able to suggest additions or edits but their content should be approved by qualified health professionals prior to being published.

In Fig 5.0a, the upload file option, currently on OurMed.org, is under the toolbox tab. When a user clicks on the upload file tab, he/she is asked to login. For a new user there should be an option to set up an account. In the case of a registered user, validations should be performed and only special users should be allowed to upload a file. A user should be able to save these changes before exiting. As all registered users should access to upload files, a request to the qualified user group should be made before acceptance of these files.

A special user should also be able to replace an existing file with an updated or more appropriate one.

Upload File

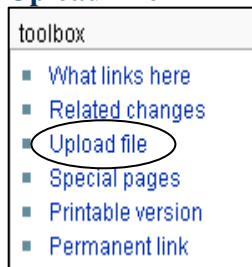
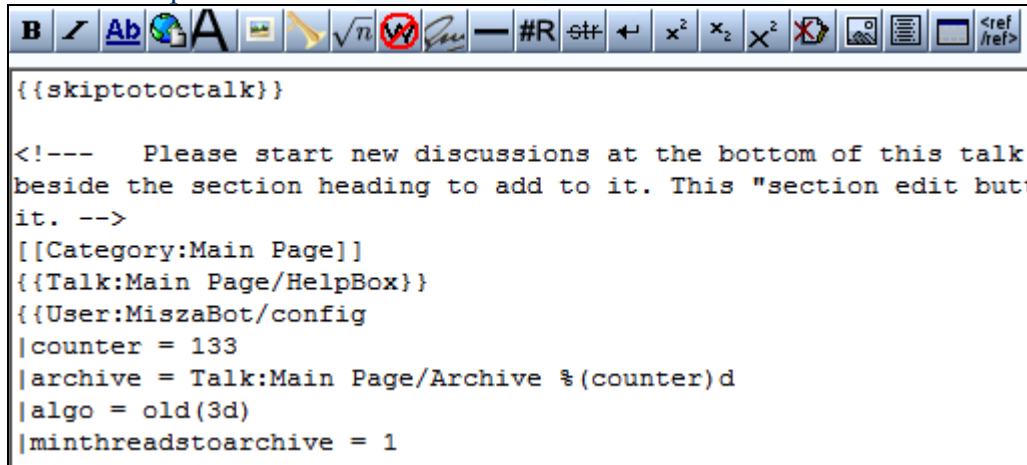


Fig 5.0 (a)

Editor: Wikipedia

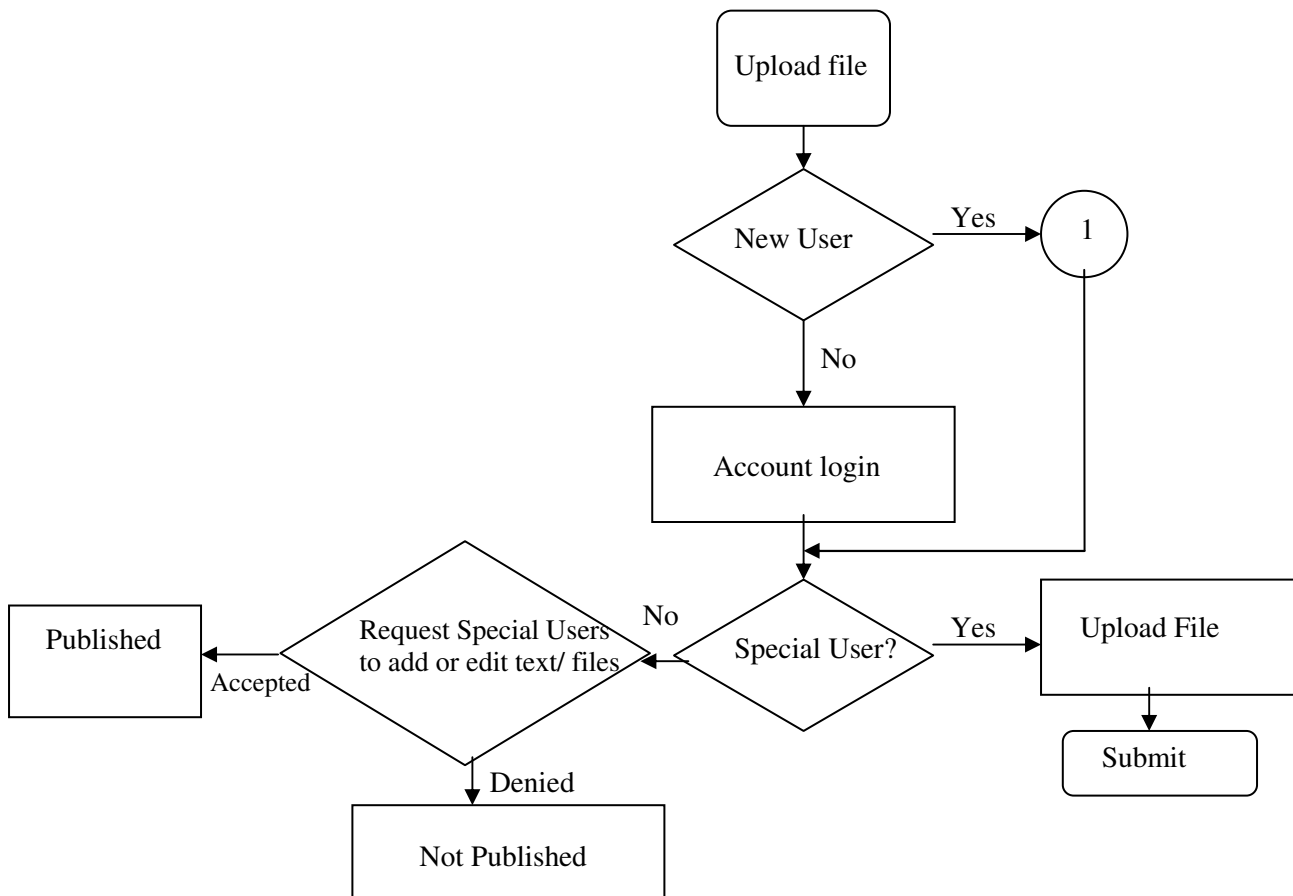


```
{{skiptototalk}}

<!-- Please start new discussions at the bottom of this talk
beside the section heading to add to it. This "section edit but
it. -->
[[Category:Main Page]]
{{Talk:Main Page/HelpBox}}
{{User:MiszaBot/config
|counter = 133
|archive = Talk:Main Page/Archive % (counter)d
|algo = old(3d)
|minthreadstoarchive = 1
}}
```

Fig 5.0(b)

Figure 5.0(c): The sequence of steps is shown in the flowchart below.



5.1 Images

A registered special user (health professional) should also be able to add images to the articles while uploading or editing them. These images could be added to the end of the article. It has to be implemented in a way, that does not take too much of server space. Craigslist can be referred to come up with an implementation strategy. There should be an option to delete these images as well.

5.2 Discussion

All users should be able to have discussions on posted articles to improve articles or develop the site. The discussion tab of Wikipedia can be referred for implementation.

As a result, many different users can suggest changes and for general users, these changes can be verified by health professionals before they are published. This would make the encyclopedia more interactive and limit confusion or misunderstanding.

6.0 User Comments

A registered user should be able to comment on articles, doctors, hospitals, drugs, medical devices, tests and procedures. This list not yet final and is a UAQ. It should be possible for other registered users to reply to such comments. In this way there will be many threads on different topics. The total number of replies in a thread should be displayed. For an abusive comment, graffiti, or spam, it should be possible to report it (only registered users). A registered user should also be able to rate a particular comment. The overall rating for a particular comment should be displayed next to the comment. The option to report, rate or reply should be shown when a user clicks on a comment.

The format of the comment should be very simple. Only the first comment in a particular thread should be visible. The registered user who posts the first comment should have the option of being anonymous or displaying his/her details. If the user wants to display his/her details then the username, country and educational degrees should be displayed. Other users should be able to view the initiating user's credentials and other comments in a particular thread by expanding it. Figures below illustrate the same.

Comment Section

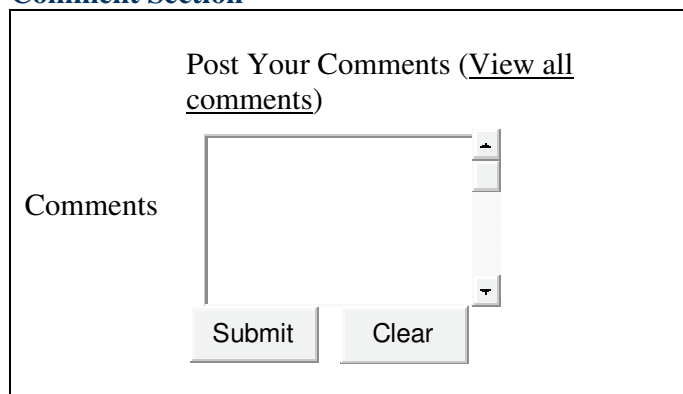


Fig 6.0(a)

Comment Section Normal View: Youbemom



Fig 6.0(b)

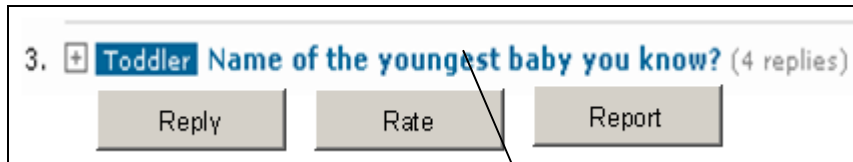
Click to expand

Overall rating of a comment

Comment Section Expanded View: Youbemom



Fig 6.0(c)



Click to see different options

Thus the user comment section should have the following functionality:

- Submit a comment
- View all Comments
- Total number of replies to a particular comment
- Overall rating of a particular comment
- Rate a comment
- Report a comment
- Reply to a comment
- Minimize a comment thread, to view just the first comment. This should be the default.
- Expand a comment to view all the replies to a comment thread.

It may serve us to consider Google's new blogging software "Google Wave" to both save in programming costs and to make OurMed a cutting edge technology site:

http://en.wikipedia.org/wiki/Google_wave

The video demo from Google at their developer's conference is really interesting:

<http://code.google.com/apis/wave>

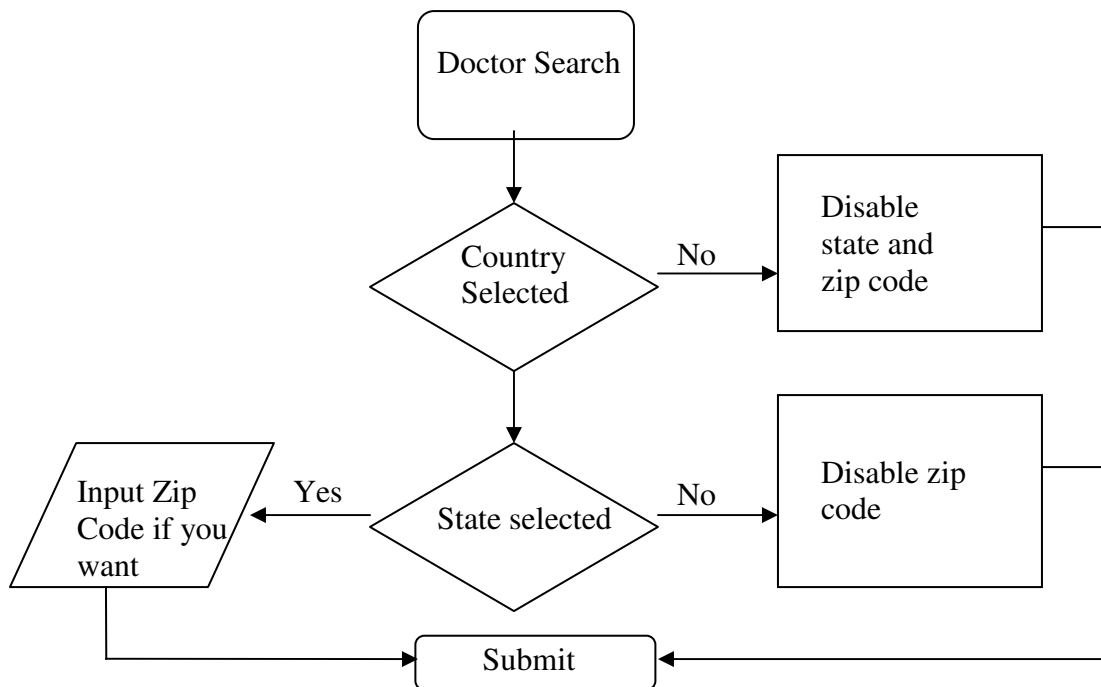
7.0 Search by different categories

A user has the option of selecting a country, state and zip code while doing a search. If a user does not select any of these, then an IP identifier should be used to detect the location (Country) to produce the search results.

7.1 Search a doctor

A user should be able to search a doctor for a particular disease in the nearest area. The option to search a doctor should be under the category drop down of the search engine (ref fig 1.0). After selecting doctor search, user should be able to select a country, state and zip code. It should not be mandatory to select a country, state or zip code. Though a user should be able to select a state only after selecting a country and should be able to enter the zip code only after selecting the state.

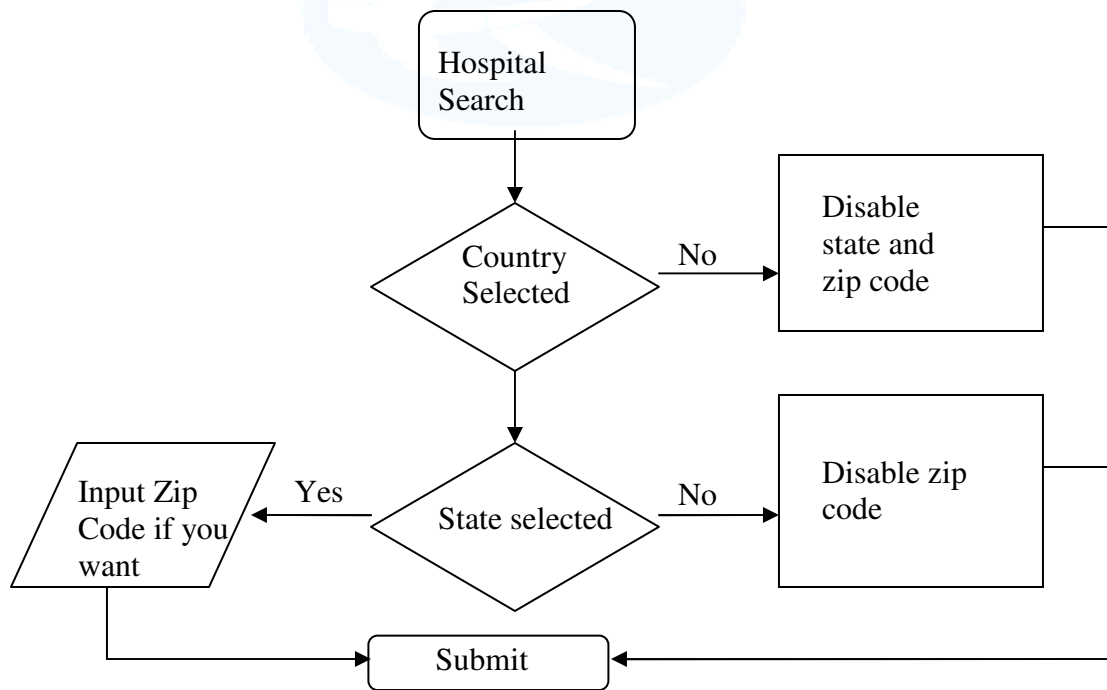
Figure 7.1a The flowchart below shows the sequence of steps



7.2 Search a Hospital

A user should be able to search a hospital for a particular disease in the nearest area. The option to search a hospital should be under the category drop down of the search engine (ref fig 1.0). After selecting hospital search, user should be able to select a country, state and zip code. It should not be mandatory to select a country, state or zip code. Though a user should be able to select a state only after selecting a country and should be able to enter the zip code only after selecting the state.

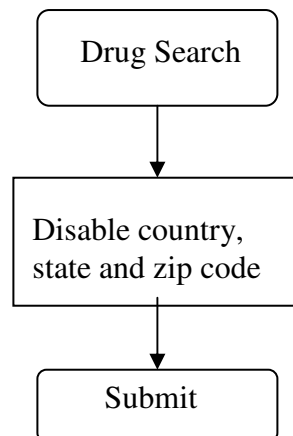
Figure 7.2a: The flowchart below shows the sequence of steps



7.3 Drug Search

A user should be able to search a drug for a particular disease. The option to search a drug should be under the category drop down of the search engine (ref fig 1.0). Once a drug search is selected country, state and zip code should be disabled.

Figure 7.3a: The flowchart below shows the sequence of steps



7.4 Search Articles

A user should be able to search articles on a particular disease. The option to search articles should be under the category drop down of the search engine (ref fig 1.0). Once an article search is selected country, state and zip code should be disabled.

The flowchart would be similar to the drug search category.

7.5 Search based on some other category

More categories can be added to the above list. It should be possible to add more categories to the search engine.

8.0 Hospital Profile View

A registered user should be able to view a hospital's profile. The view should consist of details like specialties, size (number of beds), cost, average number of stay, ownership, accredited by, ratings and patient comments. There should be an option to rate a hospital and post comments. Rating and comment posting has been discussed in detail in the previous sections. These are common for all categories like doctors, articles, drugs etc.

Details like specialties, size, cost and average number of stay can be entered during a hospital's profile creation. Ratings and comments would be dynamic and would change continuously based on patient's outlook.

The exact number of fields in the hospital profile view is still not final. The fields mentioned above are just a suggestion. More fields can be added to the above list. It is still not clear if we should use some database to pull out a hospital's profile. The exact implementation requires more brainstorming.

In case we use a database, then the profile view can have statistics like: number of patients treated for a particular category, number of complications etc.

It should also be possible for users to compare hospitals for a particular category like cardiac etc.

To summarize a hospital profile view should have the following functionality

- Specialties
- Size
- Cost
- Average number of stay
- Ownership
- Accredited by
- Patient ratings
- Patient comments
- Rate the hospital
- Post your comment
- Statistics like number of patients treated for a particular disease, complications etc
- Compare different hospitals

The Figure on the next page depict a sample hospital comparisons

Hospital Comparison: Health Grades



Fig 8.0(a)

8.1 Awards won by a Hospital

OurMed should recognize the efforts of hospitals in health care improvement by giving various awards to them. These hospitals should receive these awards based on patient ratings. There can be categories like, highest overall rating in a particular region, state or country. Another category could be highest positive rating in a particular region, state or country. Later on, if we decide to add more ratings criteria then the awards category would also change accordingly.

Awards: Health Grades

Awards

This hospital has been recognized by HealthGrades with the following award(s):



Distinguished Hospital Award — Clinical Excellence™
2006, 2007 and 2008
This hospital has been recognized by HealthGrades for its clinical excellence. Hospitals who received this honor represent the highest scoring of the nation's full-service hospitals.



Patient Safety Excellence Award™
2007, 2008 and 2009
This hospital has been recognized by HealthGrades for its patient safety. Hospitals who received this honor were in the top tier in patient safety based upon an overall rating aggregated from all patient safety areas.



Critical Care Excellence Award™
2009
This hospital is a recipient of the HealthGrades Critical Care Excellence Award™. Hospitals who received this honor were in the top tier in HealthGrades critical care services ratings.

Fig 8.1(a)

8.0 Career opportunities at OurMed

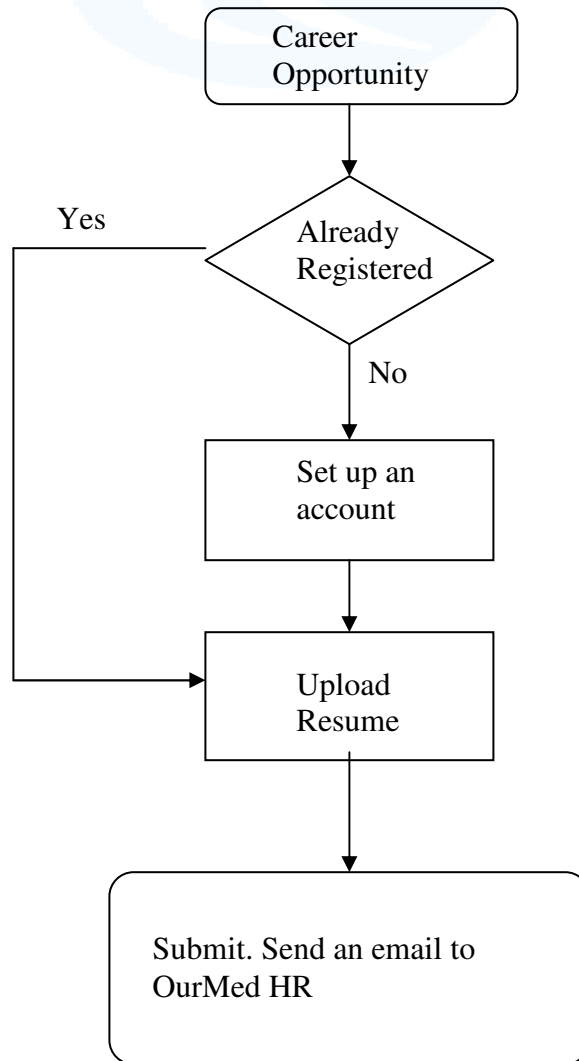
Users should be able to see all open positions at OurMed. These opportunities should be divided into three categories: volunteer, contract and full time. This section should be on the first page of OurMed.

User should be able to click on each category to see all the open position under that category. User needs to submit his/her profile to express an interest in a particular position. Once a user submits his/her profile an email should be sent to the OurMed HR.

9.1 Account set up

In order to submit a profile an interested candidate would need to set up an account. The account set up page would be similar to a general user's account set up page without the patient check box. Candidate would need to upload or paste a resume during profile creation.

Figure 9.1: The sequence of steps is as follows:



10.0 Contact OurMed

The link to this should be on the first page of OurMed. It should have contact details like email address, address and phone number. In the current phase, it will have just the US contact details but as the site grows with time it should have different contact details for different countries.



11.0 Donate to OurMed

The link to this should be on the first page of OurMed. User should be able to donate in the memory of someone and for a particular disease. These fields should not be mandatory. There should be a minimum amount that could be donated. Administrator should be able to change the minimum amount.

In case of a registered user, a user should login to his/her account and then donate. This would enable adding them to the list of donors. In case of an unregistered user, he/she should be given a choice of setting up an account or just submitting his/her profile or staying anonymous. The profile page would be similar to a general user account set up page but an account should not be created in case of submission. If a donor wants to set up an account then the sequence of steps discussed in the previous sections should be executed.

A donor should also be able to post his/her comments.

To summarize following fields should be there:

- Donation amount
- Donation in the memory of
- Disease
- Comments

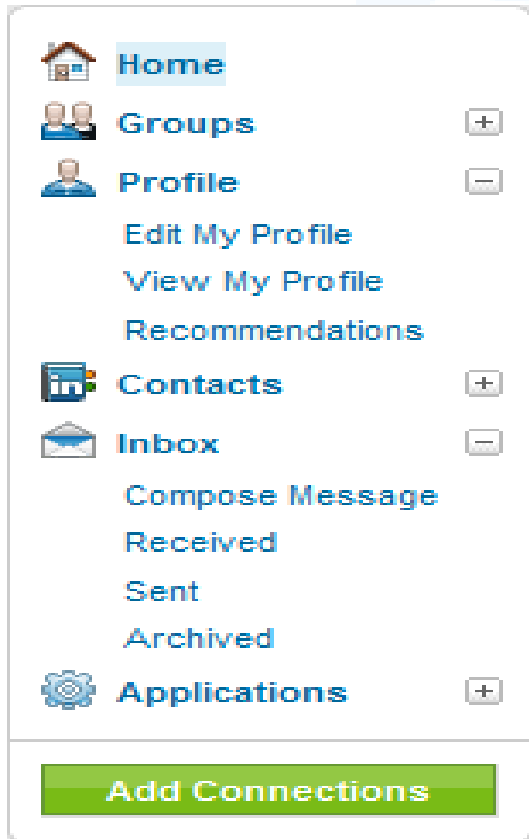
11.1 List of Donors

Information about all the donors should be saved. It should be possible for a user to see the list of donors. The name of the donor along with the country, amount and date of donation should be displayed. It should be possible to sort the list alphabetically based on the donor's first name or the country or by date or the donation amount. By default, it should be sorted by donation amount.

12.0 Personal Inbox for users

Registered users should have a personal inbox to send and receive personal messages. This would be similar to the personal inbox of Facebook and LinkedIn. It should also have a favorite's folder, where the user can add the articles, comments, doctors, hospitals and drugs that he/she likes. This would help a user to customize as per his/her needs.

Personal Inbox: LinkedIn



13.0 Current events and news on healthcare

There should be a section on current events and news related to healthcare. Current events should include all the current happenings on OurMed related to articles, drugs, doctors and hospitals.

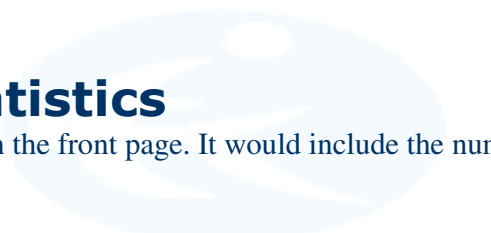
In the news section all the health care industry related news should be displayed. This news needs to be pulled out from the database. The implementation detail is still a UAQ.

14.0 Discussions

There should be a section on discussions. Various options like: start a discussion, post your comment, ask a question, answer a question, and take an opinion poll should be available. It should be possible to ask a question or take an opinion poll from a particular user class. The different user class would be doctors/physicians, scientists, PhDs, alternate medical professionals, allied health professionals and general user. Thus a registered user would be able to get an expert advice from a doctor or get the opinion of users on a particular drug or treatment.

14.1 Discussion forums or groups

A registered user should be able to start a group and others should be able to join it. This would enable having various forums on various topics. A registered user would be able to join a group of his/her interest and follow the discussions. This would be particularly useful for people suffering from an ailment.



15.0 Site Statistics

This should be displayed on the front page. It would include the number of hits daily, weekly, monthly and overall.

16.0 Privacy Policy

A statement on privacy policy should be published on OurMed. The statement has to be provided.

17.0 Disclaimers

A statement on disclaimers has to be published on OurMed. This statement has to be provided.

18.0 Most common diseases and conditions

A list of most common diseases and conditions should be displayed. The link to this would be on the first page of OURMED. On clicking on this link user would be able to see the common diseases and conditions. So a user would be able to click on these diseases and read articles on them. The list of common diseases and conditions has to be provided.

19.0 Caregiver Support

A caregiver is a person who takes care of a sick person who could be his/her parents, spouse, kids, friend or some distant relative. They should be able to post their comments on how they are taking care of the person and get support and response from others. This would enable them to share their thoughts with others and at the same time get their support.

19.1 Support, encouragement and good wishes for those who are ill

Registered users should be able to support, encourage and send good wishes to those who are ill. A sick person or the caregiver can post a comment about his/her illness. Others should be able to respond to this and provide their support and encouragement. This functionality would have a similar comment section discussed earlier.

Caregiver support and encouragement: Medical Mingle

Forum	Threads	Posts	Last Post
Any Other Medical Topic Open to any medical topic that you wish to discuss, where you don't see a suitable category below.	133	638	16 minutes ago by BV
Caregiver Support Topics This is a forum where members that are caring for others including patients, the elderly, children, ill family members, etc... can talk about any topics of interest, and either give or receive support.	17	181	4 days ago by Marti
Dieting, Weight Loss, & Nutrition Open to anything related to dieting, weight loss, and nutrition.	33	516	1 day ago by Marti
Diseases & Medical Conditions Any topic you'd like related to any disease and/or medical condition.	70	631	21 minutes ago by BV
Fitness & Exercise Open to anything related to fitness and exercise.	23	1,033	1 day ago by Ken Levinson (Mair
Health Care Reform Anything related innovative ideas for improving the healthcare system.	3	18	4 weeks ago by Karen
Medical News Resources Resources for up to date medical news and breakthroughs.	17	140	21 hours ago by Cynthia
Research Topics Anything related to medical research.	40	408	7 minutes ago by BV
Support, Encouragement, & Good Wishes For Those Who Are Ill	6	29	6 months ago by Tracy Wishon

People who are ill can receive encouragement, good wishes and support

People caring for others can share their experiences to get or give support.

Fig 9.0

20.0 Health and Lifestyle

A section on health and lifestyle should have articles on topics like weight loss, nutrition and healthy eating, stress management, substance abuse, addictions, pregnancy, child health, old age, symptom checker etc. More topics like this can be added in the future and it should be possible to add more to the existing list. Doctors (licensed physicians) should be able to upload or edit articles in this category. The aim of having this section is to promote healthy life style through awareness and preventive measures.

Healthy Lifestyle

Information and tools for a healthy lifestyle.

Healthy lifestyle topics

- Weight loss
- Quit smoking
- Fitness
- Consumer health
- Nutrition and healthy eating
- Stress management

Life stages

Pregnancy

- Getting pregnant
- Pregnancy week by week
- Labor and delivery, postpartum care

Children

- Infant and toddler health
- Children's health
- Tween and teen health care

Free E-Newsletter

Subscribe to receive the latest updates on health topics.

➤ View sample

Enter e-mail address here

SUBSCRIBE

Fig 20.0(a)

Health and Lifestyle: Mayo Clinic

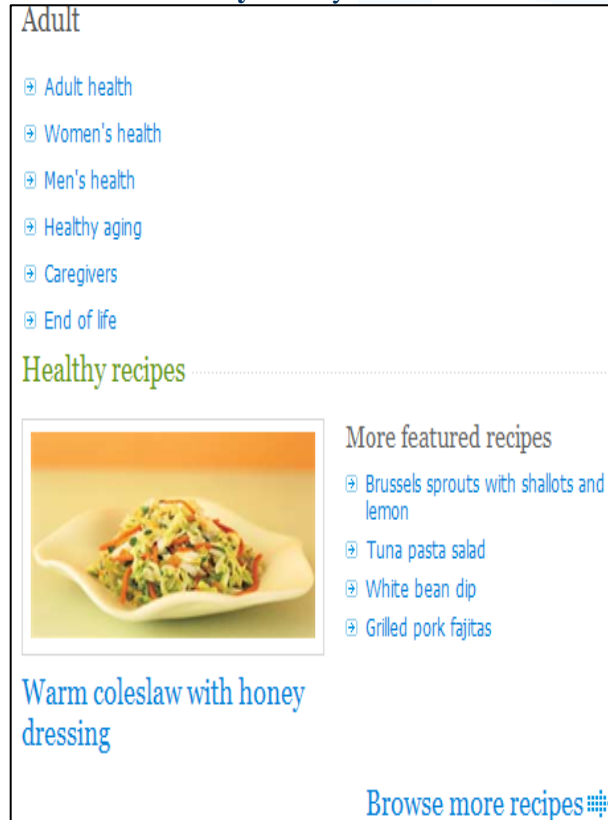


Fig 20.0(b)

20.1 Symptom Checker

This feature would help a registered user to check the symptoms of a disease. This would facilitate detection at an early stage and prevent unnecessary complications. In the current phase the plan is to provide a link to the existing symptom checkers. In the next phase OurMed might add a symptom checker of its own.

The list of symptom checkers is as follows:

- <http://symptoms.webmd.com/>
- <http://www.qdscore.org/>
- <http://www.nhlbisupport.com/bmi/>
- <http://www.healthwise.net/ahni/Content/CustDocument.aspx?XML=STUB.XML&XSL=SX1.XSL>
- <http://www.mayoclinic.com/health/symptom-checker/DS00671>
- <http://symptomchecker.about.com/>
- <http://www.healthcentral.com/symptom-checker/>
- <http://www.medgle.com/>
- <http://www.aolhealth.com/symptom-checker/>
- <http://symptoms.wrongdiagnosis.com/>

On clicking on these links a user would leave OurMed, so message should be displayed; “you are about to exit OurMed”.

21.0 Alerts

A registered user should be able to set alerts on his/her topic of interest. These topics would be all the diseases listed on OurMed. If any new article is added or edited on a particular disease, or if a new drug or medical device comes in the market for that disease the user should get an alert. An email should be sent to the user with the links to the web pages on that topic.

22.0 Language Preferences

A similar language preference as with YouTube should be on the front page of OurMed. The default language should be English. The list of all the languages available should be displayed. The list has to be decided. If a registered user authors an article in a French for example, when the article is stored, the “French” language would be stored in the article table. When another user selects “French” as their preference, only the French articles will appear.

Language Preference: YouTube



Deutsch	Español (Latinoamérica)	Polski
English (UK)	Français	Português (Brasil)
English (US)	Italiano	Русский
Español (España)	Nederlands	Svenska

Fig 22.0

This system assumes that the site architecture will remain in English despite the type of language selected in the user preference bar. When a certain amount of traffic is gathered, we may want to consider having a copy of the site set in another language (ref Wikipedia).

23.0 Bug Reports

A user should be able to report bugs. This option should be on all the web pages. On clicking on this link, a text box should be displayed where the user is able to enter his/her comments and submit it. This would look similar to post your comment text box discussed earlier.

When the user submits the bugs it should be sent to the website maintenance and development team.

24.0 Feedback and Suggestions

This option should be available on all the web pages. A user should be able to provide his/her feedback and suggestion on any functionality. On clicking on this link, a text box should be displayed where the user is able to enter his/her feedback and suggestion and submit it. This would look similar to post your comment text box discussed earlier.

When the user submits the feedback should be sent to the website maintenance and development team.

24.1 Feedback on new ideas

This functionality would enable getting feedback on new ideas before incorporating them. It should be possible to post all the new ideas and new changes to OurMed on the website. A list of proposed new ideas and changes should be displayed. A user should be able to click on them to see the full description. A text box, similar to the comment section displayed earlier should be displayed at the end of the description. A check box should be displayed below the text box. The user should click the check box to indicate that he/she likes the idea.

25.0 Alternative Medicine

There should be a section on alternate medicine. Various topics under this section would be chiropractic, acupuncture etc. A complete list of topics under alternate medicine has to be decided. Alternative medicine professionals should be able to post and edit articles under this category. Registered users may suggest posts or edits but they must be verified by medical professionals before publishing.

In the case when content includes links to external sites, users should be informed that he/she is exiting the website.

<http://nccam.nih.gov/>

26.0 First Aid

A section on first aid would help a user during a medical emergency. A complete list of first aid topics is provided at the end of the document.

26.1 Disclaimer

A disclaimer statement has to be provided, as first aid is not a substitute for any treatment but just to deal with a medical emergency.

Sample disclaimer statement from Mayo Clinic

“Disclaimer: This information is not intended as a substitute for professional medical advice, emergency treatment or formal first-aid training. Don't use this information to diagnose or develop a treatment plan for a health problem or disease without consulting a qualified health care provider. If you're in a life-threatening or emergency medical situation, seek medical assistance immediately.”

A disclaimer statement for OurMed has to be drafted.

27.0 Drugs

The section on drugs should contain articles on drugs for various diseases and conditions. The scientists and PhDs should be able to post and edit these articles. General users should be able to rate these drugs and post their comments. Rating and comment section would be similar to the one discussed above.



27.1 Animal Medicine

There should be a section on animal medicine under drugs. Scientists and PhDs should be able to post and edit their articles on various animal medicines. Registered users should be able to suggest changes which, when verified by Scientists and medical professionals, may be published. Users should be able to rate these drugs and post their comments. Rating and comment section would be similar to the one discussed above.

28.0 Top Searches

A user should be able to see top searches performed daily, weekly, monthly, and overall. It should be possible to view top searches performed on each category like doctor, hospitals, diseases, drugs, articles and medical devices. There could be more categories, if they are added to the list.

29.0 Most Recent

A user should be able to see most recent in each category like doctors, hospitals, drugs, articles etc. Most recent should be something new added in these categories. It should also include changes made in these categories.

30.0 Top Ratings

A user should be able to see top rated articles, doctors, hospitals, drugs and medical devices. More categories can be added to the above list. It should be possible to see top rated daily, weekly, monthly and overall.

31.0 Popular this Week

A user should be able to see popular this week in each category: doctors, hospitals, drugs, medical devices and articles. More categories can be added to the list. The popularity would be based on the most number of hits in a particular week.

32.0 Recent Website changes

This section should list all the new functionality added to OurMed in the recent past. This would enable a user to make use of the new features added to OurMed. This link would be in the toolbox of OurMed.

33.0 Tests and Procedures

This section would contain a list of test and procedures like ultrasound, biopsy, blood test etc. A complete list of procedures has to be decided.

Another suggestion is to keep it dynamic. The company itself should upload a name if it does not exist already and then add an article. If the name already exists then a company should be able to add or edit an article in that category.

Articles in this section should be uploaded and edited by Scientists, PhDs and doctors (licensed professionals).

34.0 Medical Devices

There should be a section on medical devices. Only scientists and PhDs should be able to add or edit articles under this category. They should upload the name of the device and then upload or edit an article on that device. All these names should be sorted in alphabetical order. User should be able to read these articles on clicking on these names.

It should be possible for scientists and PhDs to upload multiple articles on the same medical device. So in some cases user would see more than one article on a particular device.

34.1 Medical Device Ratings

It should be possible for a registered user to rate a medical device. There should be an option to rate a device at the end of the article on that device. Rating scheme would be the same throughout. It has been discussed in detail in the previous sections.

35.0 Help Guide

There should be a comprehensive help guide on OurMed. This should include topics like account setup, account login, adding a file, editing a file etc. It should provide a guide to all the features on OurMed.

36.0 Fun Space

The fun space would make OurMed a little entertaining. In this space users can share some of their funny and entertaining experiences related to health or lifestyle in general.

A registered user should be able to start a discussion and other registered users should be able to post their comments and rate it. The rating and the comment section would be the same as discussed in the sections above.

37.0 Recognition

All the registered users can get recognized for their contribution to OurMed.

There can be various titles and some of them have been discussed below:

OurMedian of the Week: A registered user getting the highest overall rating in any particular week should be selected for this title.

Most active this Week: A registered user with the most number of hits in any particular week should be selected for this category.

A registered user reporting the most number of abuses in any particular week can be recognized.

The title for this category has to be decided.

A registered user reporting bugs, providing valuable feedback and suggestion can be recognized as well. Again the title has to be decided.

The most active user in the history of OurMed can be recognized as well. The title has to be decided.

The user with the highest overall rating till now can be recognized as well. The title has to be decided.

The name, country along with a photograph of such users should be displayed.

More categories can be added to the above list.

38.0 History

The history would show the list of all the users who made changes to any particular web page on OurMed. Wikipedia can be referred for implementing the same.



39.0 View Source

Users should be able to just view the source code and should not be able to edit it.

40.0 Account set up for different user types

The account set up for doctors and general user has been discussed before. All other users are discussed here.

40.1 Account set up page for Scientists/PhDs

The account set up page for scientists can have the following fields

- First Name
- Middle name
- Last Name
- Research Interest
- Years of Research
- Email address
- Date of Birth
- Educational Institutes
- Educational Degrees
- Experience
- Certifications
- Phone number
- Password
- Confirm Password

For the educational degrees and experience fields, text boxes of sufficient length should be provided. Scientists should be able to enter his/her entire education and work experience history.

40.11 Validation of all the fields

Once a scientist/PhD enters the fields, certain validations should be performed. All the mandatory fields should be filled. Email address and date of birth should be validated. In case of date of birth a validation like the person should be above 18 years could be performed. Error message should be displayed if any of the validations fail.

40.12 Verify Scientist/PhD identity

Educational institutes and educational degrees would be used to verify the identity of the scientists/PhDs. Database or telephonic calls may be used to verify the same.

In case of telephonic calls, some OurMed representative would call the Scientist/PhD to verify his/her identity. Only after the verification an account would be set up. The user should get an email stating his/her verification status.

40.2 Account set up for Allied health professionals

The account set up page for allied health professionals should have the following fields:

- First Name
- Middle name
- Last Name
- Email address
- Date of Birth
- Educational Degrees
- Experience
- Certifications
- Years of experience
- Phone number
- License Number
- Password
- Confirm Password

40.21 Validation of all the fields

Once an allied health professional enters the fields, certain validations should be performed. All the mandatory fields should be filled. Email address and date of birth should be validated. In case of date of birth a validation like the person should be above 18 years could be performed. Error message should be displayed if any of the validations fail.

40.22 Verify Allied health professionals identity

The exact way of verifying the identity has to be decided. Database or telephonic calls may be used to verify the same.

In case of telephonic calls, some OurMed representative would call the allied health professional to verify his/her identity. Only after the verification an account would be set up. The user should get an email stating his/her verification status.

40.3 Account set up for Alternative medicine professionals

The account set up page for Alternate medicine professionals can have the following fields

- First Name
- Middle name
- Last Name
- Specialty
- Email address
- Date of Birth
- Educational Degrees
- Experience
- Certifications
- Years of practicing

- Phone number
- License number
- Password
- Confirm Password



40.31 Validation of all the fields

Once an alternative health professional enters the fields, certain validations should be performed. All the mandatory fields should be filled. Email address and date of birth should be validated. In case of date of birth a validation like the person should be above 18 years could be performed. Error message should be displayed if any of the validations fail.

40.32 Verify Alternative medicine professionals' identity

The exact way of verifying the identity has to be decided. Database or telephonic calls may be used to verify the same.

In case of telephonic calls, some OurMed representative would call the alternative medicine professional to verify his/her identity. Only after the verification an account would be set up. The user should get an email stating his/her verification status.

41.0 Conclusion

OurMed is a healthcare networking initiative aimed at improving healthcare. It is not for the benefit of any organization or individual and the organization and individuals do not have conflicts of interest.

The functionality of OurMed has been developed with the sole purpose of making information readily available and increasing transparency in healthcare. The aim is to make it user friendly and efficient.

This document is a work in progress and more functionality can be added or changed over time. There are still some pending issues, which have been addressed in the Unanswered Questions (UAQ) section, at the end of the document. As and when a decision is taken, it is added to that section. Please refer that section to find answers to the UAQ in the specifications document. Snapshots of some websites have been provided just for illustration. This is not how OurMed is intended to look like. OurMed should have a unique look and functional features.



Unanswered Questions (UAQs)

- 1) It should be possible for a user to search general information other than the main data (doctors, hospitals, drugs, articles, diseases, etc)
- 2) When a doctor sets up an account on OurMed, his/her identity needs to be verified. The exact way to verify his/her identity has to be found.
Option 1: Home address and the last four digits of the social security can be used. If not American, however, we need another identifier than the Social Security Code.
Option 2: Another way of verifying is by using the American DEA certification number.
Option 3: Other?
- 3) Different types of users would use OurMed. We need to come up with a list of different user types and the account set up page for them.
Moon's Suggestion: Doctor, scientist, PhD, allied medical professional, medical devices company, hospital, Drug Company, alternative medical professional
Moon's Decision: Doctors (licensed professionals), Scientists/ PhDs, Allied medical professionals, Alternative medical professionals and people
- 4) We need to verify these different users, when they create an account with OurMed. These users could be hospitals, scientists, medical professionals etc. Need to come up with a strategy to verify their identity.
Moon's Decision: For doctors the identity would be verified using their DEA number, for scientists/PhDs institutions and degree would be used.
Pending: Identity verification of allied health professionals and alternative health professionals is still pending.
Suggestion: The identity of all the special users would be verified using a database or by phone calls. The approach has to be decided.
- 5) A general user should be able to view the profile of a doctor/physician. The profile should have details like appointment information. Implementation details of appointment information has to be decided.
Moon's Suggestion: A registered OurMed doctor could have the option of uploading his/her appointment details.
- 6) A general user should be able to view the profile of a doctor/physician. A list of fields has been suggested. More fields can be added to the existing list. The exact number of fields needs to be finalized.
Moon's Suggestion:
 - Doctor's Name
 - Address
 - Specialties
 - Gender
 - Experience
 - Medical School
 - Internship
 - Residency
 - Fellowship
 - Rating

- Rate the Doctor
- Hospital Affiliation
- Awards won by the Doctor
- Appointment information

If the fields mentioned above are displayed then the doctor can enter these details during profile creation itself.

Awards won by doctor, would not be entered by a doctor. This has been discussed in detail in the sections above.

Option: disciplinary actions, malpractice history can also be added but implementation has to be decided. Some database might be needed to extract these details.

- 7) A set of simple features have been proposed for the current phase of the project. We need to come up with the exact number of features in the Doctor/physician profile view to be implemented in the next phase.

Moon's Suggestion: I have suggested a set of features to be implemented. These should be easy and can be implemented in the current phase.

- 8) A list of fields has been suggested for a general user. More fields can be added to the existing list. The exact number of fields needs to be decided.

Moon's Suggestion:

- First Name
- Last Name
- Email
- Password
- Confirm Password
- Country
- Patient check box

- 9) When a user creates a profile, he/she has to enter a password. The exact length and format of password needs to be decided.

Moon's Suggestion: It can be between 6-16 characters long. Numbers, characters and special characters should be allowed.

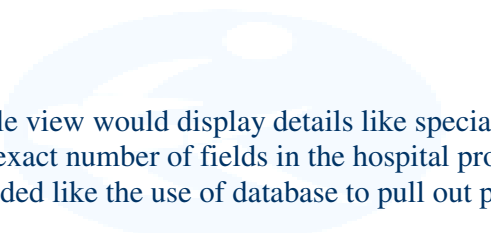
- 10) Not only special users can upload articles on OurMed. Special users are doctors, physicians, scientists, PhDs and medical professionals. We need to come with a way that special users can confirm the accuracy of the information uploaded by not special users. Also we need to verify the identity of these special users.

- 11) Users of OurMed should be able to rate doctors, hospitals, drugs etc. They can rate using stars like YouTube or just enter a number from 1 to 5. Need to decide the exact rating strategy

Moon's Suggestion: Stars, as most people are used to it.

- 12) A registered user should be able to comment on articles, doctors, hospitals, drugs, medical devices, tests and procedures. The list is not yet final.

Moon's Suggestion: Once the different categories are decided, this can be finalized as well.

- 
- 13) The hospitals profile view would display details like specialties, cost, number of beds etc. Need to decide the exact number of fields in the hospital profile view. The implementation detail has to be decided like the use of database to pull out profile details.

Moon's Suggestion:

- Specialties
 - Size
 - Cost
 - Average number of stay
 - Ownership
 - Accredited by
 - Patient ratings
 - Patient comments
 - Rate the hospital
 - Post your comment
 - Statistics like number of patients treated for a particular disease, complications etc
 - Compare different hospitals
- 14) The health care industry related news needs to be pulled out from a database. Need to come up with the database to be used for the same.
- 15) There are various categories under health and lifestyle.
Moon's Suggestion: weight loss, nutrition and healthy eating, stress management, substance abuse, addictions, pregnancy, child health, old age. Only Doctors could be allowed to add/edit articles in this category or general users can add/edit if a doctor approves. We need to have an approval mechanism.
- 16) A user would have the option to set the language as per his/her preference. The list of languages has to be decided.
- 17) Alternate medicine would have topics like acupuncture, chiropractic etc. Need to come up with a complete list of topics. Another option is provide a link to some other medicine website.
- 18) First aid section would have various topics like animal bites, cuts, burns etc. Need to come up with a complete list of topics. Mayo clinic had various topics. Can refer to that to come up with a list. <http://www.mayoclinic.com/health/FirstAidIndex/FirstAidIndex>
- 19) A section on test and procedures would include ultrasound, blood test etc. A complete list of topics has to be decided. These articles can be uploaded and edited by medical devices companies.
- 20) A registered user should also be able to view doctors' hospital affiliation. The approach has to be finalized.

Option 1: During the account set up, doctors' should have the option of entering their hospital affiliation. A user should also be able to rate these hospitals.

Option 2: The data could be pulled out from a database.

Moon's suggestion: Option 1 would be more cost effective and easy to implement.

- 21) To recognize the contribution of doctors to OurMed, there should be awards like highest overall rating of the published articles, most active contributor based on the number of articles published or edited etc. More awards can be added to the list. This list has to be finalized
- 22) All the registered users can get recognized for their contribution to OurMed. Various categories along with the title have to be finalized.
- 23) The Founding Framer program that is a page dedicated to honoring the first 100 volunteers who gave over 100 hour of their time to OurMed needs to be created. A list from OurMed staff can be provided.
- 24) The account set up page for PhDs and Scientists is the same. They can be grouped together, unless these two user types have different access rights. For now (based on Moon's decision), the two user groups have been combined.

List of Diseases

The following list of diseases has been compiled from Health 24 Graphics. This is just for reference. The actual list for OurMed has to be finalized.

The diseases are in alphabetical order

A

- Acute bronchitis
- Acute Renal Failure
- Aids: opportunistic infections
- Asthma
- Abdominal pain
- ABO and Rhesus Blood Groups
- Acne
- Acute glaucoma
- AIDS
- Alzheimer's disease
- Amniocentesis
- Anaemia - iron deficiency
- Angina
- Anorexia nervosa
- Antenatal testing
- Anxiety disorders
- Arachnoiditis
- Arteriovenous Malformation
- Arthritis - osteoarthritis
- Asperger syndrome
- Athlete's foot
- Atrial fibrillation
- Allergies
- Angina of the leg
- Abdominal aortic aneurysm
- Abdominal pain
- Abscesses
- Acoustic neuroma
- Attention-Deficit Hyperactivity Disorder
- Alcoholism
- Amenorrhoea
- Amyotrophic lateral sclerosis (ALS)
- Anaemia in pregnancy
- Ankylosing spondylitis
- Anoxia/Hypoxia
- Anthrax
- Appendicitis
- Arnold-Chiari Malformation
- Arthritis - infectious

- Arthritis - rheumatoid
- Atherosclerosis
- Atopic dermatitis
- Autism

B

- Beriberi
- Botulism
- Blood in the urine - haematuria
- Bad breath (halitosis)
- Barlow's syndrome
- Bedsores
- Behcet's Disease
- Benign Breast Conditions
- Benign Prostatic Hyperplasia (BPH)
- Bipolar disorder
- Bladder cancer
- Blood Pressure (High)
- Bornholm disease
- Brain and spinal cord tumours
- Breast abscess
- Breast lumps & breast pain
- Bruises and black eyes in children
- BurnsBronchitis, acute
- Back pain
- Balanitis
- Basal cell cancer
- Bedwetting
- Bell's Palsy
- Benign Intracranial Hypertension
- Bilharzia
- Birthmarks
- Blood clots
- Blood Sugar (Low)
- Brachial Plexus Birth Injuries
- Brain Tumour
- Breast Cancer
- Breast self-examination
- Bulimia nervosa
- Bursitis of the hip

C

- Cystic fibrosis
- Coeliac disease
- Cancer of the Bladder
- Cancer of the cervix
- Cancer of the Lung
- Cancer of the Prostate
- Cancer of the Testes

- 
- Candidiasis/Thrush
 - Carpal Tunnel Syndrome
 - Cataracts
 - Cerebral aneurysm
 - Chest pain
 - Chlamydia trachomatis
 - Chorea
 - Chronic Fatigue Syndrome
 - Chronic Renal Failure
 - Cirrhosis of the liver
 - Cluster headache
 - Colds
 - Colles fracture
 - Colour blindness
 - Concussion
 - Constipation
 - Contact dermatitis
 - Chronic Obstructive Pulmonary Disease
 - Cradle cap
 - Crimean-Congo haemorrhagic fever
 - Croup
 - Cuts, abrasions and bruises
 - Cystinuria Cancer of the Liver (primary)
 - Caesarean section
 - Cancer of the breast
 - Cancer of the Colon
 - Cancer of the Pancreas
 - Cancer of the Stomach
 - Cancer of the Uterus
 - Cardiomyopathy
 - Cat scratch disease
 - Cellulitis
 - Cerebral Palsy
 - Chickenpox
 - Cholera
 - Chronic cough
 - Chronic pain
 - Circumcision
 - Claudication
 - Cold sores
 - Colic
 - Colorectal cancer
 - Coma and Persistent Vegetative State
 - Conjunctivitis
 - Constipation in children
 - Contraception
 - Cot death



- Creutzfeldt-Jakob Disease
- Crohn's disease
- Cushing's Syndrome
- CVA (Stroke)
- Cytomegalovirus

D

- Diphtheria
- Diabetes - long-term complications
- Deafness and hearing
- Degenerative joint disease
- Delirium
- Dementia
- Depression
- Dermatomyositis
- Dialysis
- Diseases from cats
- Diverticulosis and diverticulitis
- Drug allergy
- Ductal carcinoma in situ
- DysthymiaDyspepsia
- Dandruff
- Deep-vein thrombosis
- Dehydration
- Delirium tremens
- Dental caries
- Dermatitis
- Diabetes: Type 1
- Diarrhoea
- Diseases from dogs
- Down's syndrome
- Dry mouth
- Dysmenorrhoea
- Dystonias

E

- End-stage renal failure
- Eclampsia and pre-eclampsia
- Eczema
- Encephalitis
- Endometriosis
- Epilepsy
- EyestrainEar canal infection
- Ectopic pregnancy
- Electric shock
- Encephalopathy
- Enlarged Prostate
- Erectile dysfunction (impotence)
- Encephalotrigeminal Angiomatosis



F

- Fever blisters
- Fainting
- Febrile seizures
- Fever
- Fibrocystic Breast Disease
- Flatus
- Foetal Alcohol Syndrome
- Food allergy
- Friedrich's ataxia Fibromyalgia
- Fatigue
- Female sterilization
- Fibroadenoma of the breast
- Fits and faints in children
- Flu (influenza)
- Folliculitis
- Food poisoning
- Fungal infection

G

- Gastro-Oesophageal Reflux Disease (GORD)
- Goitre
- Gallstones
- GIFT (Gamete Intrafallopian Transfer)
- Gastroenteritis
- Generalised Anxiety Disorder
- Genital warts (condyloma acuminata)
- German measles
- Gilbert's syndrome
- Glaucoma – acute angle-closure
- Globus hystericus
- Gout
- Guillain-Barré Syndrome Glomerulonephritis
- Gas gangrene
- Gambling addiction
- Gastritis
- Gaucher's Disease
- Genital Herpes
- Geographic tongue
- Giant cell arteritis
- Glandular fever
- Glaucoma - primary open angle
- Gonorrhoea
- Growing pains
- Gestational proteinuric hypertension

H

- HIV/AIDS: opportunistic infections
- Hyperventilation



- Haemorrhagic diseases
- Hairy tongue
- Hay fever
- Headache
- Heart Block
- Heart-valve disease
- Heatstroke
- Henoch-Schönlein purpura
- Hepatitis, Viral
- Hernia, Inguinal
- Herpetic whitlow
- Hip pain
- Hives
- Hot flushes in menopause
- Hydrocephalus
- Hypercholesterolaemia
- Hyperthyroidism
- Hypotension
- Hypothyroidism Haematuria - blood in the urine
- Haemophilia
- Haemorrhoids
- Halitosis
- Head injury
- Heart attack
- Heart failure
- Heat rash - children
- Heavy periods (menorrhagia)
- Hepatitis B
- Hernia, Hiatus
- Herpes zoster (shingles)
- Hip fracture
- HIV/Aids
- Hodgkin's disease
- Huntington's disease
- Hypercholesterolaemia
- Hypertension
- Hypoglycaemia
- Hypothermia
- Hypoxia/Anoxia
- I**
- Iron poisoning
- Impetigo
- Incontinence, Urinary
- Infectious arthritis
- Influenza
- Insect bites - children
- Intrauterine Growth Restriction (IUGR)

- 
- Iron deficiency anaemia
 - Irritable Bowel Syndrome (IBS)Immunisation
 - Impotence
 - Infantile colic
 - Infectious mononucleosis
 - Inguinal hernia
 - Insomnia
 - Iritis
 - Iron overload disease

J

- Jellyfish stings
- Jet lag

K

- Kaposi's sarcoma
- Kidney transplantation
- Kawasaki disease
- Kidney failure - acute
- Kidney failure - end-stage
- Klinefelter's syndromeKidney dialysis
- Keloid
- Kidney failure - chronic
- Kidney stones
- Kwashiorkor

L

- Lipoma
- Lymphomas
- Low Blood Pressure
- Laryngitis
- Learning disabilities
- Lice
- Lobular carcinoma in situ
- Lou Gehrig's diseaseLymphadenopathy
- Lung Cancer
- Lactose intolerance
- Lateral epicondylitis
- Leukaemia
- Liver cancer (primary)
- Lockjaw
- Lupus erythematosus (SLE)

M

- Mycobacterium avium complex (MAC)
- Malaria
- Malnutrition
- Measles
- Meningitis
- Middle ear infection
- Miscarriage



- Motion sickness
- Multiple Sclerosis
- Muscular dystrophy
- Myasthenia Gravis Macular degeneration
- Male sterilisation
- Manic depression
- Melanoma
- Menstruation
- Migraine
- Mitral Valve Prolapse
- Multiple myeloma
- Mumps
- Myalgic Encephalomyelitis

N

- Nerve pain
- Nail fungal infections
- Narcolepsy
- Neck pain
- Nephroblastoma
- Neuroblastoma
- Non-Hodgkin's Lymphomas (NHL) Nappy rash
- Nausea and vomiting
- Neonatal jaundice
- Neuralgia
- Neurofibromatosis
- Nose bleed

O

- Osteomyelitis
- Obsessive-Compulsive Disorder
- Osteoarthritis
- Otitis externa (Ear Canal Infection)
- Ovarian Cysts Obesity
- Oral thrush
- Osteoporosis
- Otitis media

P

- Peptic ulcer
- Pneumocystis carinii pneumonia
- Pernicious anaemia
- Prostatitis
- Pancreatic cancer
- Parasites
- Pelvic Inflammatory Disease
- Persistent Vegetative State and Coma
- Pink Eye
- Plantar warts
- Polio



- Polymyositis
- Post-Polio Syndrome
- Pre-eclampsia
- Pressure sores
- Prickly heat
- Prostate Cancer
- Pseudogout
- Psoriasis
- Pulmonary thromboembolism
- Pertussis
- Progressive multifocal leukoencephalopathy
- Paget's disease of the nipple
- Pancreatitis
- Parkinson's Disease
- Peritonitis
- Pharyngitis
- Plantar fasciitis
- Pneumonia
- Polycystic Ovary Syndrome
- Porphyria
- Post-traumatic stress disorder
- Premenstrual syndrome
- Priapism
- Primary open angle glaucoma
- Protein-calorie malnutrition
- Pseudotumour Cerebri
- Psychosis

R

- Rabies
- Rheumatic fever
- Red eye
- Reye syndrome
- Rickets
- Rubella
- Renal transplantation
- Restless legs syndrome
- Rheumatoid arthritis
- Rickettsia

S

- Seizure
- Septic arthritis
- Scabies
- Schizophrenia
- Septicaemia
- Shingles (herpes zoster)
- Sickle cell anaemia
- Sjogren's Syndrome
- Smallpox
- Social anxiety disorder (social phobia)



- Spastic Colon
- Spina Bifida
- Spinal Cord Injury
- Sprain, strains, fractures and dislocations
- Squint
- Stomach Cancer
- Stroke
- Styes
- Sunstroke
- Sydenham Chorea
- Syphilis
- Systemic lupus erythematosus (SLE)
- Sterilisation, female
- Scarlet Fever
- Seborrhoeic dermatitis
- Shaken Baby Syndrome
- Shinsplints
- Sinusitis
- Sleep apnoea
- Snake bite - children
- Sore throat
- Spasticity
- Spinal Cord and Brain Tumours
- Spondylosis
- Sprains and strains
- Sterilisation, male
- Strabismus
- Sturge-Weber Syndrome
- Sudden Infant Death Syndrome (SIDS)
- Swimmer's ear
- Syncope
- Syringomyelia

T

- Tennis/Golfers/Throwers Elbow
- Temporal Arteritis
- Tension headaches
- Testicular Cancer
- The A - Z of menopause
- Thrombus
- Thyroid, underactive
- Tick bite fever
- Tonsillitis
- Transient Ischaemic Attack
- Traumatic Brain Injury
- Trigeminal Neuralgia
- Type 2 diabetes
- Tendonitis
- Testes - undescended
- Tetanus



- Thoracic Outlet Syndrome
- Thyroid, overactive
- Tic Douloureux
- Tinea versicolor
- Tourette's disorder
- Transverse Myelitis
- Tremor
- Tuberculosis (TB)
- Typhoid fever

U

- Ulcerative colitis
- Urinary incontinence
- Urticaria (hives)
- Uterine fibroids
- Undescended testes
- Urinary Tract Infection
- Uterine cancer
- Uveitis

V

- Vaccines against bacterial diseases
- Vaccines and vaccination
- Vaginal infection (Vaginitis)
- Varicose veins
- Vasectomy
- Vertigo
- Vaccines against viral diseases
- Vaginismus
- Varicella (chickenpox)
- Vasculitis
- Ventricular tachycardia
- Vomiting and nausea

W

- Warts
- Wilms' tumour
- Whooping cough
- Worms

X

- Xerostomia

Y

- Yeast Infection
- Yellow fever

List of First Aid Topics

This list of first aid topics has been compiled from the Mayo clinic website.

This is just for reference and to help us decide the complete list of first aid topics to be impended on OurMed.

- Animal Bites
- Black eye
- Blisters
- Bruise
- Burns
- Cardiopulmonary resuscitation (CPR)
- Chemical burns
- Chemical splash in the eye
- Chest pain
- Choking
- Corneal abrasion (scratch)
- Cuts and scrapes
- Dislocation
- Electrical burns
- Electrical shock
- Fainting
- Fever
- First-aid kits
- Food-borne illness
- Foreign object in the ear
- Foreign object in the eye
- Foreign object in the nose
- Foreign object in the skin
- Foreign object inhaled
- Foreign object swallowed
- Fractures (broken bones)
- Frostbite
- Gastroenteritis
- Head pain
- Head trauma
- Heart attack
- Heat cramps
- Heat exhaustion
- Heatstroke
- Human bites
- Hypothermia
- Insect bites and stings
- Motion sickness
- Nosebleeds
- Poisoning

- Puncture wounds
- Severe bleeding
- Shock
- Snakebites
- Spider bites
- Spinal injury
- Sprain
- Stroke
- Sunburn
- Tick bites
- Tooth loss
- Toothache



List of Health and Lifestyle Topics

The health and lifestyle topics are listed below. This is not the final list and more topics can be added to the list.

- Weight loss
- Diet & Nutrition
- Healthy eating
- Stress management
- Substance abuse
- Addiction
- Pregnancy
- Child health
- Old age
- Teens
- Women's health
- Men's health
- Sleep
- Pet Health
- Sex
- Fitness
- Symptom checker

References



1. Digg
2. Linked In
3. MIXX
4. Yahoo! Buzz
5. MedicalMingle
6. American Health Network
7. Medpedia.com
8. Sermo
9. Symptom Checker
10. Health 24-Graphics
11. You Tube
12. Wikipedia
13. eBay
14. Amazon
15. IKEA
16. Craigslist
17. Target
18. YouBeMom
19. Health Grades
20. WebMD
21. National Institute of Health (NIH)
22. National Center for Complementary and Alternative Medicine
23. Mayo Clinic
24. Drugs
25. Tripadvisor.com (ratings)
26. Yelp