Final Project Presentation On Medical Data Visualization

PRESENTED BY

RIZU PAUDEL(21)
SHRADHA BASNET(35)
SANJOG SIGDEL(57)
BISHWAS DAHAL (58)

4TH AUGUST,2015

Contents

- Background
- Why did we choose this project?
- Literature Review
- Design Guidelines
- Tools used
- System Design
- Features
- Problems Encountered
- Limitations
- Future Enhancement
- Conclusion

Background

- MDV is a web based application built for visualizing medical information in context of Nepal.
- Visualization provides some pattern about data we present in pictorial form.

Why did we choose this project?

- Data Related to medical study is abundant online.
- In context of Nepal we are still not used to electronic data entry system.
- So Health related data of Nepal is neither available nor visualize.
- In case any individuals wants to research on medical field, s/he shouldn’t spent much time for getting data and visualizing them.

Literature review

- Many eyes-is an experiment, by IBM,that allows you to visualize your data set and helps to visualize the users who uses maximum data for social networking sites.
- I Charts-It includes private charts, custom, templates, unlimited live databases connections, survey data set and much more.
- Exhibit- Developed by MIT, and fully open source, makes it easy to create interactive maps, and other data based visualizations.

Tools Used

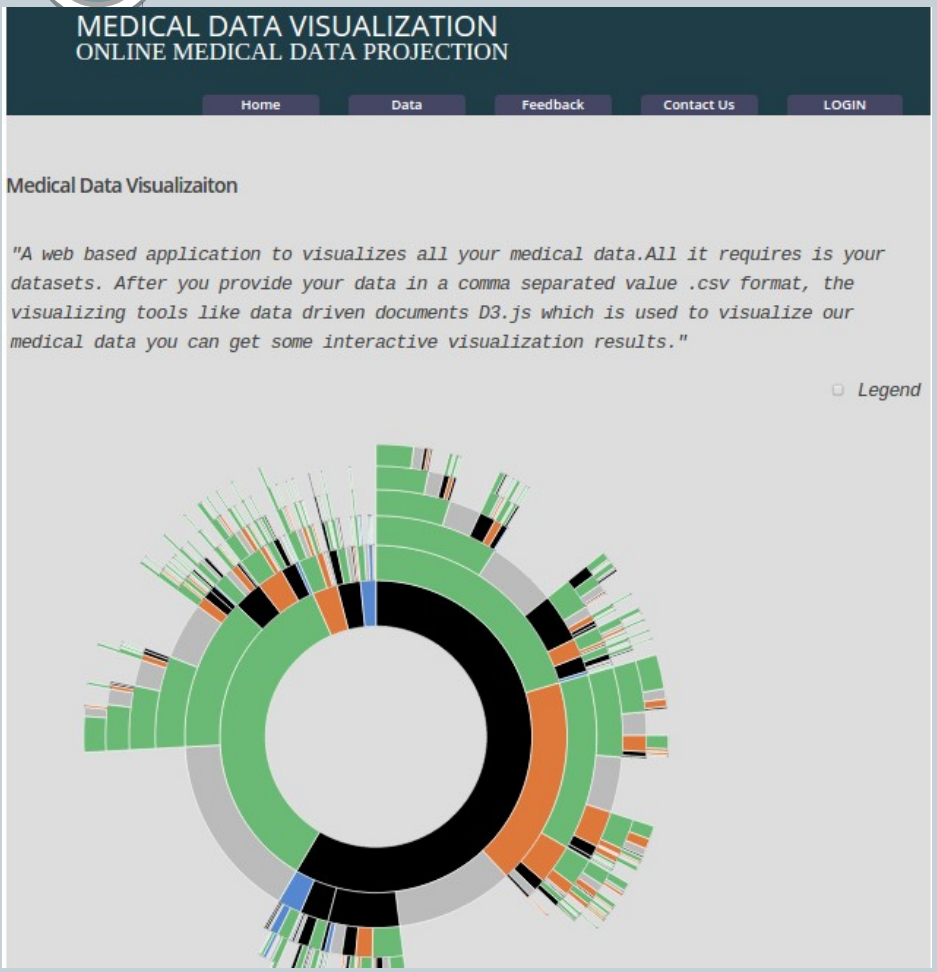
- JavaScript
- JQuery
- PHP
- MySQL
- CSS
- HTML
- Sublime Text
- PHPMYadmin

Design Guidelines

- Identified User Requirements
- Use of common fate
- Proper Use of Hyperlink
- Use of pictures, icons and dialogue boxes. Meaningful title and consistency style

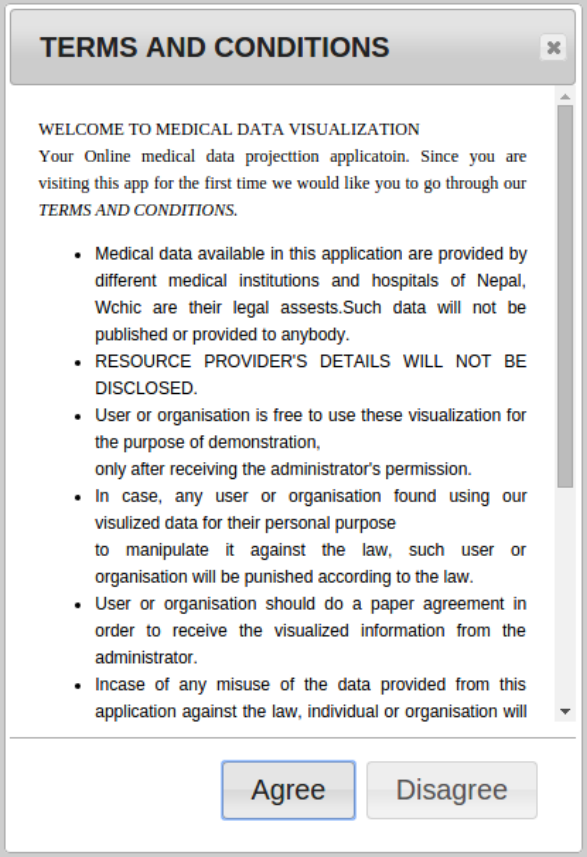
System Design (C0ntd…)

Figure: Main Page



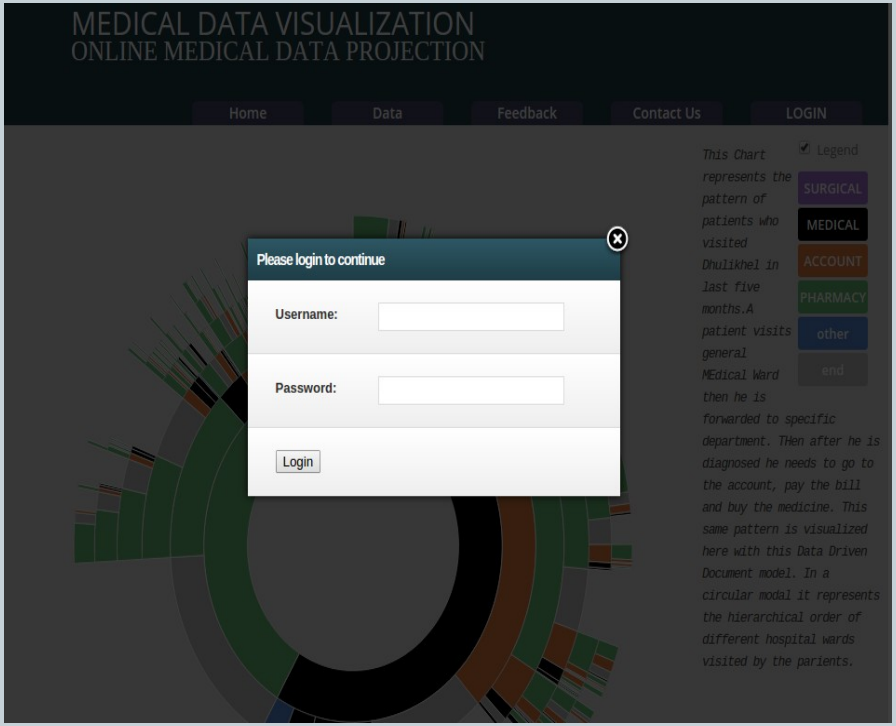
System Design

Figure: Terms and agreement.



System Design(Contd…)

Figure: Login Screen



Limitations

- Application is static in nature. Many commands should be carried on manually.
- Visualized data cannot be manipulated further.
- Visualized result cannot be exported.

Problems Encountered

Problem Faced	**Solution Technique applied**
Import data to apache server	*Direct upload of .xslx was not possible.So* ***first file was converted to .ods*** *format*
Maximum Post size limit reached	By default the post / upload size was 2MB. Manually edited */etc/php5/apache2/php.ini* and set size limit to 10MB as ***post_max_size = 10M***
Session: didn't determined whether $_SESSION['user'] started or not	Worked after *$_SESSION['user']* is assigned with value of username from row of table user as ***$_SESSION['user']=$row['username']***
Menubar not appearing as below: ***Login*** if session was not started ***Logout*** if session is started	Assigned ***if else condition*** as ***if(!_SESSION['user']) {... Login ... } else{ ... Logout ... }***
Unable to download file from server to a specified destination folder due to security issue.	Downloaded file and handled file through terminal as ***root@user:~$ sudo mv Downloads/file.csv /var/www/html/mdv/csv/***

Future Enhancement

- Application can be made dynamic.
- More visualizing tools can be included.
- Different patterns regarding pharmacy, patients' density, resource management can be visualized.

Conclusions

- With the completion of this project, we are now familiar with JavaScript, JQuery and also different ideas for visualization.
- Upon completion and submission of this project, we have been able to successfully achieve all the proposed features.

Thank You