

Saumya - [PLT] - FINAL Weekly Status Report - Week 13

Its the final week GSoC 2014! The 3 months - time I spent in coding for Peace Corps Photo Translation Project as a part of Google Summer of Code 2014 with Systers passed so quickly.

Just before summer, I had no clue about rails or ruby (except for the fact that it has MVC architecture). And now, I have a complete working Ruby on Rails (RoR) application. This summer journey has not been without challenges for me. But my mentors - Ana, Pamela, Sylvain and Rose had been with me throughout this journey of ups and downs. A big thanks to my mentors, Systers organization and Peace Corps organization for giving me this opportunity to learn and contribute as well as helping me throughout the coding period.

I started with setting up the development environment. Then I made a very simple application with a models, controllers and views. I could pass values from a form, add into my database and show the data added in views. By this time I felt things might not be as difficult as they seem. I made basic models, controllers and views required for my application. This seemed to be moving in right direction. Then I started implementing the specific requirements for the application - making compulsory fields, uploading files, showing form errors, using partials, foreign keys, drop-down lists etc. Along with all these things, I also had to get familiar with git and git commands to create my code repository.

Then came the challenge of making a login for users. I looked for various authorization modules and selected devise among all of them. But just installing devise was not it. I had to customize its model, controller and view according to my project needs and requirements. Devise also required some patches to run smoothly.

Peace Corps Photo Language Translation

Welcome, Admin!

You Users Posts Sites Languages Photos

Logged in as Admin. Edit profile | Logout

Listing Languages

[+New language](#)

Name	Photos	Edit	Delete
Chuukese	Photos	Edit	Delete
Udi	Photos	Edit	Delete
Tat	Photos	Edit	Delete
Sanskrit	Photos	Edit	Delete

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[\[http://3.bp.blogspot.com/-Sw2IKntjUuc/U_SCIMnsNKI/AAAAAAAABUY/b28rKdyquno/s1600/PLT.png\]](http://3.bp.blogspot.com/-Sw2IKntjUuc/U_SCIMnsNKI/AAAAAAAABUY/b28rKdyquno/s1600/PLT.png)

By this time , mid evaluations came and thanks to my mentors, I passed the evaluations. After the mid evaluation period, I started working on application User Interface. Then came the **major challenges of my project** - creating various user categories (Admin, Volunteer, Contributor and Guest), their accessibilities of various models, controllers and views and, approval to volunteers and contributors to log into the application by admin user. Then I had to add the feature - admin being able to edit the user records - devise generated model - (except the username of user). Then I worked on the user not being able to access the "not authorized pages" by changing the url. During this period we scheduled demos, had code reviews, manually tested application thoroughly etc. Then I read about ways in which I can make my application offline and make automatic updates in application when internet is available (without hitting reload button). Things worked to a great extent but some where it created bugs. Later in the last week, I accomplished the following:

Accomplishments of Week 13:

- ++ Successful on-line demo on Friday.
- ++ Added some exception handlers.
- ++ Writing unit, functional and routing tests for the rails application.
- ++ Successfully running all the rails tests.
- ++ Cleaning up the repository for final code submission.
- ++ Writing proper documentation
- ++ Documenting proper unit test scenarios, actual results and expected results.

Challenges in Week 13:

- ++ Learning to test rails applications.
- ++ Learning how to test permissions.
- ++ Learning to simulate login in functional tests.
- ++ Learning to write fixtures.
- ++ Learning about the rails specific assertions.
- ++ Learning about rails exception handlers.

What did you get out of the program? Your take-aways:

- ++ Learning to work in a team.
- ++ Learning to work with different people in different time-zones.
- ++ Completing the work on time and setting some time for unforeseen issues is very important in development cycle.
- ++ Learning to write documentation, status reports and unit tests.
- ++ Learning to showcase your code - demo.
- ++ Enjoyed working with knowledgeable mentors - Ana, Pamela, Sylvain and Rose.
- ++ Learning about the framework rails.
- ++ Learning about working in git repository - forking, working in a branch, pull and push requests.
- ++ I would love to continue contributing to open source communities.
- ++ In the end, I have started loving rails framework.

Overall experience:

It was my first open source development experience. It was a wonderful experience working with syssters and mentors. *If given an opportunity, I would love to continue to work for Syssters.*

My mentors have been a great help throughout the coding period. Ana helped me in coordinating with all mentors as well as guided me regarding the development procedure. Pamela and Sylvain helped me in managing my git repository as well as solving doubts /issues regarding rails application. Rose also helped and encouraged me to work at each and every stage, right from Gsoc proposal till the final demo. Last but not the least, Finda (a former Peace Corps Volunteer) also helped me in understanding the requirements of Peace Corps Photo Language Translation Project.

I am really grateful to my mentors and Finda for helping me in the completion of my GSoc project.

To think that I had a summer working with amazing people - my mentors is just an awesome feeling.

This was truly a memorable summer!

Link to your GitHub page and to Syssters project (the one you worked on) repo page: The properly working application without bugs can be found here -

<https://github.com/syssters/language-translation> [<https://github.com/syssters/language-translation>]

Link to your wiki page where your status reports are located:

http://syssters.org/syssters-dev/doku.php/saumya_gurtu [http://syssters.org/syssters-dev/doku.php/saumya_gurtu]

Link to your personal page: <http://web.iiit.ac.in/~saumya.gurtu/> [<http://web.iiit.ac.in/~saumya.gurtu/>]

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