

Cpr E/S E 491 May1639 Weekly Report 8

Web platform for collecting and indexing publicly available information about common Java files.

Reporting period: October 20th - October 26th

Advisor/Client: Professor Rajan (Com S)

Members: Evan Dye (Team Leader)
Arik Coats (Web Master, Concept Holder)
Robert Kloster (Communication Leader)

Weekly Summary

- Presented first prototype to Client, received further directives:
 - Improve visual appeal of MyBB forum aesthetics.
 - Begin work on code frame
 - Begin work on related post frame
 - Begin work on Stack Overflow API implementation
- Meeting: Evan Dye, Arik Coats, Robert Kloster: October 23rd, 12 - 2:35pm
 - Successfully embedded source code sample text files in website.
 - Begun research on StackExchange API, docs here:
<https://api.stackexchange.com/docs>
 - Begun Design Document V.1, in progress.
- Meeting: Evan Dye, Arik Coats, Robert Kloster: October 24th, 10am - 2pm
 - Difficulties encountered in learning how MyBB's API can be made to work with Stack Exchange's API - must locate help with MyBB or APIs in general.
 - Discussed possible means of searching for and organizing related posts.
- Meeting: Evan Dye, Arik Coats, Robert Kloster, Prof. Rajan: October 26th, 5:30 - 6:30pm
 - Discussed progress with Professor Rajan, received further directives for next week.

Goals for next week:

- Complete Design Document V.1
- Display research on current problems to Prof. Rajan.
- Acquire further feedback and objectives.
- Must try to adapt Eclipse JDT for source file parsing.
- Get simple MyBB/Stack Exchange API emulation up and working, as a proof of concept.
- Pull links to related discussions from StackOverflow.

Name	Hours Spent	Contributions	Results
Evan Dye	9	<ul style="list-style-type: none"> Discussed possible means of searching for and organizing related posts, including the use of a tag system. Worked on improving the visuals aspects of the forum. 	<p>Made progress on a more visually appealing template for the forums.</p> <p>Created a mockup of how related discussions will be displayed.</p>
Arik Coats	14	<ul style="list-style-type: none"> Researched ways to embed source code within forums. Successfully extrapolated forum name and associated it with the source code to display for relevant forums. Discussed possible means of searching for and organizing related posts. Researched several java parsers to find a way to efficiently extract source code for a java library. Researched ways to extract source code using the Java Reflection API and wrote a test program extracting data from the ArrayList class. 	<p>We can now store source code on the site, and embed the proper file based on the forum's name.</p> <p>Formed a plan for how to use Eclipse JDT to extract method information.</p> <p>Successfully used Reflection to extract Class Source code and method declarations. Made a plan for how to extract method source code.</p>
Robert Kloster	7	<ul style="list-style-type: none"> Documented Weekly Report 8 Began Design Document V.1: <ul style="list-style-type: none"> Overall structure Problem Statement System Requirements Block Diagram of the Concept Initiating research on Stack Exchange API. Looked around for different means of implementing RESTful API calls on PHP-esque websites. Discussed possible means of searching for and organizing related posts. 	<p>Weekly Report 8 completed, Design Document V.1 began.</p> <p>Research on Stack Exchange API begun, and a potentially viable plugin has been located for setting up a RESTful API.</p>