

Project Proposal

Lab Question Implementation

Group Members and Skills

- Jason Chan
 - 2nd year CS major
 - Java, python, html, css, javascript, sql
- Gregory Williams
 - 5th year CS major
 - HTML, CSS, Java, Javascript, SQL

Project Concept and Topic

Problem To Solve / Goal ITS

The past couple of semesters, the developers of ITS have translated MATLAB graphs into JSX graphs, which we can display on the website. We want to implement lab questions where students will be given different scenarios and asked to explain them or to create their own scenarios. This semester, we will add the lab questions to the database and display the JSX graphs on the website. In the future, we will have the graphs retrieve inputs from the database.

Potential Issues/ Problems we might encounter

- Time management
- Learning PHP
- Since we have a smaller team we have to ensure we are as efficient as possible to accommodate for the larger amount of work on each of our hands

Working Plan

<u>Time Schedule</u>	<u>Task</u>	<u>Responsibility</u>
Week 5	1. Study ITS API 2. Finalize project proposal	Set up ITS on local and start studying some client side coding.
Week 6-8	Add SQL table for lab questions.	Access SQL database. Understand how to add tables and edit parameters for different entries.

Week 9	Add lab questions to SQL database	Read labs to understand different types of questions. Manually add to database
Week 10-11	Edit PHP to accept lab questions and display JSX GUI	Understand the its_question.php file and how it interacts with SQL
Week 12-15	Import JSX graph into questions	Use javascript coded by team members and import it into our project
Week 16	Final Presentation	Each member will participate in making and presenting the PowerPoint for the final presentation.
Week 17	Wrap up the work // merge with master	Each member will push their final results to github and merge everything to master

Implementation Tools and Resources

- GitHub: <https://github.gatech.edu/VIP-ITS>
- W3Schools: <https://www.w3schools.com/>
- Project Documentation Notebook
- PhoneGap Tutorials: <http://docs.phonegap.com>
- JSXGraph Demos: <http://its.vip.gatech.edu/VIP/demos/>

