

School of Computing & Information Sciences

Summer 2022 Senior Design Project

Project Selection

Student: Morris Silva

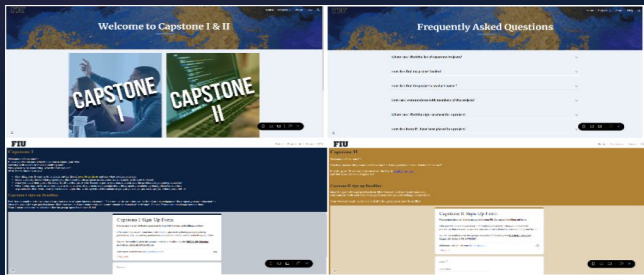
Instructor/Faculty: Dr. Masoud Sadjadi, Florida International University

PROBLEM

Project Selection Web Application arises from the issue of selecting a project to join at the beginning of the semester. This Web Application arises for Capstone I or Capstone II or Senior Project students. The current strategy given by the course instructor is based on an excel spreadsheet. It's without clear instruction of how to select a group project or join. After some careful experimentation on the spreadsheet, then can one derive conclusions on how to go about solicitating a project and selecting projects.

Our project is designed to allow for an intuitive project selection process for the students on each of the three offered courses.

IMAGES



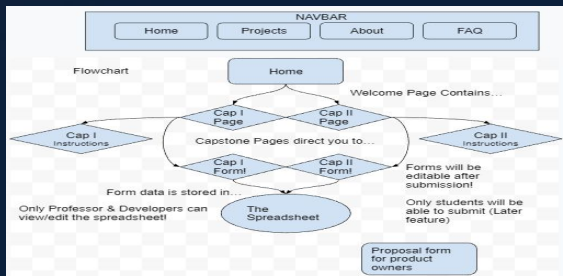
VERIFICATION

Our team has decided to wait on the translation of the application to a modern stack which would involve security, due to student information which is confidential. Security to access of the form that is to be filled out by the individual student as well. This will be handled with the FIU student credentials and an authentication process. As of now the site is private.

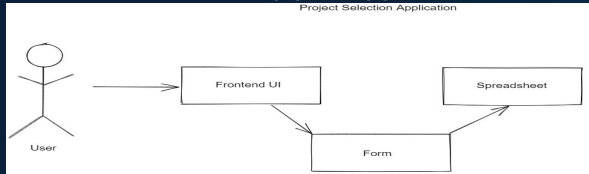
CURRENT SYSTEM

The current system is the web page application which starts at the home page that has a navigation bar with Home, Projects (which contains a drop down with the projects), About and FAQ as button sources to their specified route. And forms when filled out with be stored in a google spreadsheet. Project placement is done with Apps Script and also handled in google spreadsheet.

OBJECT DESIGN



SYSTEM DESIGN



REQUIREMENTS

- MS Windows
- Web Browser of choice (Google Chrome and Mozilla Firefox)
- Google Account
- FIU Student Account

IMPLEMENTATION

Front-End: Google Sites, HTML, Visual Studio Code

Back-End: Google Spreadsheets, Google Forms,

Google Apps Script

Team Communication: MS Teams

Documentation: Google Docs

SUMMARY

We created a website that will allow the ease of project selection process. We have implemented this with a front-end tool and back-end tool. We have left to implement security and finalize a few scripts that will automate projects to fill in the list of projects every semester and need to automate each individual project web page for the beginning of every semester. Groups are created by priority of the capstone II students and then by set-date for students to pick preferences and then wait for the end of the day to see where they will be placed. As a team we had each member contribute to an important aspect of the project. Our project is an early prototype of a future refined product.

ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by Masoud Sadjadi. I thank Masoud Sadjadi for his assistance and mentorship that I received throughout the senior design project.