

Bi-Weekly Report (2/9/21~2/23/21)

Accomplishments

Hui (Henry) Chen:

1. Set up the Jenkins, Mongodb, and web scraping program on AWS EC2.
2. Increased the web scraping program speed by adding exception handler to handle none scholarship index page
3. Web scraped all data from scholarships.com

Jungi Park:

1. Set up a project management tool, monday.com, to organize and manage assigned tasks efficiently for each team member by due date.
2. Designed a anticipated UI wireframe of application

Michael Trzaskoma:

1. Modified web scraping program to store information properly in Mongodb for recommendations

Zakaria Khan:

1. "Our approach" section of proposal
2. Environment Setup
3. React Native Form Wizard Research

Gregory Salvesen:

1. Becoming more familiar with the existing code base as well as technologies used.
2. Researching viable datasets for College information.
3. Exploring JWT and Flask in order to work on the Backend more effectively.

Upcoming Goal

Hui (Henry) Chen:

1. Create a script to remove the outdated-scraped scholarships
2. Set up a documentation for RESTful API
3. Set up CI/ CD properly
4. Test JWT with Greg

Jungi Park:

1. Implementing a in-house login authentication feature
2. Resigned UI with a screen design tool, builderX

Michael Trzaskoma:

1. Finding sites that contain all necessary information on colleges to be scrapped, as well as sites for school majors information
2. Testing recommendation algorithms with current scholarship database on mongo

Zakaria Khan:

1. Continue React Native Form Wizard Research
2. Work with Jungi on UI design
3. Implement new UI

Gregory Salvesen:

1. Implement JWT for improved communication between front end and back end.
2. Explore possible UI designs

Issue & Barriers

Hui (Henry) Chen:

1. During the web scraping, selenium was unable to locate one of the html elements but it is there. More detail about this issue is [here](#). However, this issue was resolved after I added an exception handler to capture the error.
2. Also, we have encountered an issue of connection close on the scholarships.com due to large network traffics. Therefore, we have to pause the scraping process for 5 - 10 minutes when facing "net::ERR_CONNECTION_CLOSED". More detail about this issue is [here](#).
3. Encountered an error with uWSGI when loading the library from "libpcre.so.1" in Linux. However, a solution was found. For more detail, please refer to the GitHub issue [here](#).

Jungi Park:

1. It is a bit challenging to design a UI with which every member is satisfied. Also, we had also to think about how our application workflow corresponds to the UI.

2. I have done some research on how to create our own app logo, but either I needed to pay for their project in order to create the logo or I had to learn how to learn design skill via photoshop or adobe illustrator from scratch.

Michael Trzaskoma:

1. No websites found so far that have all the necessary information needed for college recommendation, possibly need to merge sites? Or, limit the scope of information required to recommend a college.
2. Figuring the best methodology to recommend a major

Zakaria Khan:

1. Challenging to get environment setup, node js had to be reinstalled, got persistent `npm ERR! Failed at the grpc@1.24.2 install script` error when trying to install dependencies for front end, had to research the issue, solved it by correcting firebase version dependency
2. Trying to understand current file structure for UI

Gregory Salvesen:

1. Was running into errors when attempting to run and navigate through the app.
2. Unfamiliar with some of the technologies used, but am taking the time to explore those technologies and get a better understanding of the application as a whole.