Bi-Weekly Report (3/23/21~4/13/21)

Accomplishments
- Multi-selector implemented for Race, Ethnicity, Religion, and Disabilities
- Error Checking for user input for GPA, SAT score, and completion of required fields before admission
- Merging Scholarship, College, and major survey of button into one button with multiple tap navigation
- Fixing CollegeSurvey & Keyboard covering UI issues
- Unifying UI layout of Scholarship, Major, and College.
- Improved recommendation model to account for all attributes when querying
- Signed up for SendInBlue email service, in order to handle activation and forgot password emails
- Created generation of activation code, and corresponding URL in order to activate a user's account. URL is emailed to the user on sign up. Account is activated when the URL is visited.
- Password field can be toggled between visible and invisible, so users can ensure they typed in their password correctly. Password requirements are also displayed and updated as the user types
- Developed the web scraping program for scraping college data from niche.com and then inserting it to mongodb.
- Accounted for multi choice attributes for user profile
- Helped other senior project groups with their issues of the database and backend logic.

Upcoming Goal

- Finalize Questions and UI for Major Survey
- Modify recommendation to account for multi select attributes
- Encrypt Database information
- Finish account activation from email
- Implement forgot password functionality
- Build team site
- Debug the college data scraping program code on how to handle missing data.

- Structure college recommendation
- Deploy the backend to AWS Elastic Compute Cloud (EC2) and Application Load Balancer (ALB).
- Redesign the data flow of the survey section on React Native so that it would work well with the top-tab-navigation component.
- Integrate the secure storage API with the frontend and backend.

Issue & Barriers

- Correctly populating array and correctly indexing it for multiple Multi-Selectors on one screen
- App Life-cycle issues for error checking, javascript methods and syntax for String content-comparison
- Finding most optimal way to filter scholarships not applicable to the user
- Some issues implementing the email service, and finding a viable service to use
- There are many inconsistencies on niche.com where the data are missing or not in the right data type. Therefore, this would significantly impact our college recommendation model since the quality of the dataset is imperfect.
- Figuring out the best methodology for encrypting database information