CSCE606 – Software Engineering

The Neighbours – CyberSecurity Cert Tracker

The following clients, John Romero and Kelly Regusa, have been finding it extremely tedious to manage and keep track of the progress and certifications of students who are involved in various cybersecurity courses. Due to student registrations originating from multiple sources, there are a lot of repetitive and manual lookups required to match student records and their enrollment, check the successful completion of their courses, and verify their claims for the examination vouchers. In addition, due to the nature of the data collection, it is difficult to aggregate the data to compute statistics. These may include the course completion rate, the passing rate for their examinations, etc, that may be used to advertise the course and its perks.

To ameliorate this problem, our team will be working in unison to develop a fully functional web application platform for the administrators. By implementing an authentication system to allow the main admins and general admins of the platform sole access, we will be allowing them access to a GUI that will be implemented in React. One of the primary functions of the GUI would be to view all the student records and the relevant course details in an organized tabular format. The main admins can generate the table either by adding a CSV file from their local system or by manual entry via a customized form. This feature will be exclusive to the main admins. The uploaded CSV or manual data will be stored in a PostGres database for future usage. The general admins can access information on all students in their group. Aside from viewing all the records in an organized tabular format, all of the users will also be able to conduct a super search. By typing a specific keyword in a search bar, they will be able to see records that match the specific text in the search bar. The application would also consist of a comprehensive list of filters, from filtering courses completed within a specific date range to filtering students who have completed a course or taken the exam. Upon clicking on one of the table entries, the admins will be able to see a complete student profile including the student's progress throughout the course and other relevant information.

Stakeholders:

1) Main administrators – Curriculum Specialist Kelley Ragusa and Program Director John Romero
2) General administrators with read-only access of students in their group

Pivotal Link: https://www.pivotaltracker.com/n/projects/2598723

GitHub Link: https://github.com/ANUSKAPANT/CyberSec-Cert-Tracker

Product Owner for Iteration 0 – Mesbaul Alam Khan

Scrum Master for Iteration 0 – Yatin Gupta

Customer meeting date/time/place: 2:30 pm on 20th September 2022 at AI Engineering Building Conference Room

UI Mockups are attached to the next page