During the Senior Project final demonstrations, grading each student on paper is simply inefficient. Also, it is an enormous task for any one person to keep track of the different scores assigned to the students during this time. Lastly, it is too time consuming for one person to ensure that all students are being judged sufficiently, without any duplications taking place.

The point of the project is to create a judging app that can be used on popular smartphones and tablets. Specifically — Creating the database and its interconnectivity.

The current process for judging students is to grade each student on an individual sheets of paper. Therefore generating a large number of scores for each student by multiple judges. This process becomes quite tedious and is prone to human error.

There is no known application that is currently in use, that optimizes this process.

In order to use this system, the following requirements must be met by the judges, admin, and students -

- Every judge that is willing to use the system needs to have either an iOS or Android capable smartphone or tablet.
- The admin needs a computer with a web browser, to view the compiled results, and set judge limits.
- The students may register via web browser. And view their rankings both on the web and on the designed app.

To address the problem of optimizing the Senior Project Judging process, we designed apps that work on Android and iOS devices. With additional functionality offered by a web application.

I worked on the backend for iOS, Android and the website. This included the interconnectivity between the apps and the database. All apps will pull information from the database and the database will be updated through the functions of the apps.

Our group was able to implement all major requirements for this project on three platforms.

As a result of this system paper would no longer be needed for judging student’s projects. Furthermore, the assignment of judges to students would be both random and non duplicative as a result of the algorithm implemented in the system.

Scores can be viewed by the students in the form of rankings by their Panther ID; and the admin can view complete scores on the website.

This system can be ported to use in the future Senior Project demonstrations.