

Matthew O'Hern

Internship Final Report:

Over the summer, I worked on a web app for the Butler University Service Center. This app needed to be developed to replace the current paper system used to track door keys that get checked out by vendors. To develop this app I needed to learn more about web development and the tools I could use to meet the requirements given. The service center wanted to have this software be able to send text messages and emails to those who signed out keys in order to ensure they return the keys by 4:30 pm closing time. Additionally, the service center wanted to do more than just replace their paper system, they wanted to add a reservation feature so there could be less paperwork done in person. I worked at the front desk of the service center before so I understood their requirements easily and implemented features I knew would be helpful. This project used everything I have learned at Butler University. First I created a paper lo-fi prototype for myself in order to grasp how this website would function, then I created a hi-fi prototype using adobe XD to show the service center and get feedback. After making a solid prototype that satisfied the service center I then took my adobe XD prototype and slowly made the HTML necessary to make it. I learned how to use NodeJS to best implement all the requested features using multiple modules, this allowed me to implement the requested text service and allowed me to connect it all to an MYSQL server easily. Once I had become comfortable with NodeJS I was quickly able to implement all the requested features and more easily. I performed lots of tests under different user stories and made a pretty robust website, once I had completed everything requested of the website I had to talk with IT in order to finalize it. However school did begin at that point, so the service center allowed me to continue working on this web app for them and

finalize it. Additionally, they want me to make more software for them in the future, making this internship an extremely valuable experience in the field of software development.