

Project Documentation

Dorm Swappers is an android app created by five engineering students at Boston University. It was created as a tool to streamline the process of changing dorm rooms for other students at BU. Dorm Swappers provides a way for students to view a database of all available rooms in dorms on campus at Boston University. The creation of this app required the use of Android Studio, a username and password system, and a database in which to store all of the available rooms.

The app opens with a login screen with a box for a username and password, as well as an option to register as a new user. Next is a splash page that introduces the app, followed by the “Location” page. This page offers four buttons each with an option for different locations on campus: East, Central, West, and South campuses. After this page it then breaks down further into the “Buildings” page, which gives buttons for the available buildings in the selected area of campus. After this is the final page, which gives the results of all free rooms within the building as well as the contact information for their rommates. It also gives the information for other people registered on the app that may be interested in switching rooms.

The challenges involved with the coding element of the project in Android Studio primarily was becoming familiar with java and the application itself. In order to familiarize ourselves with the materials we started by watching multiple tutorials on Android Studio and slowly became acquainted with Java. Luckily, it did not take long to become acquainted with the language after our experience with C++. The next challenge was finding a way to store all of the usernames and passwords of the app users. We used a database to store the usernames, passwords, and their location on campus. Making a database was an entire challenge on top of this, as we needed to figure out how to create it and how to find a way for the database to stay updated and store all of the rooms available. We solved this problem by using an app called WampServer which enabled us to create a secure database that we were able to access as developers.