

User Stories and Test Cases Sprint 2

In sprint two we implemented more of the back-end functionality. We did this because most framework for the app was setup in sprint one. One of the most crucial user stories we finished in sprint two was a functioning login. With this our app can now communicate with our Firebase authentication where the passwords are encrypted and stored. This also helped us to enable a forgot password functionality. This allows a registered user to put in their email address to be able to change/recover their password. The login can also differentiate between managers and workers directing them to the appropriate screens with their respective permissions. The logout function also works as one would expect it to taking the user back to the login page. For most of the back-end functionality to work we had to create a central database using Firestore. This allows create different collections for each of the pages in the app. Additionally it allows us to make separate documents for each entry into the database, which can consist of many different fields. This was the easy part the hard part was getting the app to be able to communicate with the database. After a lot of effort we were able to accomplish this but not able to fully implement for each page of the application. The last thing we accomplished was implementing a recycler view with a card view on the donation and staff page. These allow us to create a scrollable list of cards which we can pass objects filled with data from the database. The cards let us create a uniform view for each of the objects along with letting us make each specific object manipulable by the end user. For sprint three this leaves implementing expanding the functionality we implemented this sprint to all of the pages. We also need to refine the appearance of our app to be more appealing to the end user.

In sprint two we have implemented many tests to assure that our app functions as intended. Tests were created to test the getter and setter methods to ensure they function properly for the staff and donation objects. We also created test to make sure pushing and pulling from the database works properly. We also made test to see if the recycler views were displaying properly and held the appropriate information. There are also tests to ensure the login is allowing users to login to the appropriate screens and be able to recover their password. The testing helped us to eliminate bugs and ensure all parts of app we have implemented so far work as intended. Overall everything we have implemented so far seems to be working as intended.