

## User Stories and Test Cases

For this sprint we started with a base project outline with corresponding activities for most of the pages that we will need for our finished project. We got a skeleton of the front end up and running so that we could take the next two sprints to implement some of the more involved user stories. Because of this we only fully finished five of our user stories, but have a strong implementation of three more user stories that will get finished when other features like our SQL database and encryption get implemented. This has, however, shown us how we can either re-write or break apart our user stories to be even more specific and not rely on tasks that take longer to properly implement, for example a working SQL database.

During sprint 1, we completed our user story about limiting the layout of workers to restrict their access to certain data like donor's information. We accomplished this by having a separate home screen for the workers with links only to pages that specifically concern them like the donation inventory. Additionally we completed a user story about having a page for workers profiles, where a profile picture would be shown as well as information about the workers. While the data on the page is a mock, as the final implementation of the application will pull data from a SQL database, it shows how we are intending for our application to look and how our staff page will display profiles. The third user story we finished was having a page that contains information about donors. This page lists donors by order of who has donated most recently and shows some contact information for them. This data will also be stored and pull from a SQL database in the next sprint. The fourth user story was an easier one to implement, that detailed how we need to have a threshold quantity for each item. This was implemented on the inventory page as a separate column listing a specific threshold for each item. This again will be data that is saved in the database but for our first spring we implemented it as a table. The last user story we finished during this sprint was a small one that should probably have been

included in another, to restrict access to the donor information to the manager only. This was done as a part of restricting the link to the donors page to the managers home screen only. Although many of these will store their data in the database, their implementation was thorough enough for us to feel that they are completed. Additionally we implemented three more user stories, but did not get enough completed for us to feel as though they were finished. The first of these was the forgot username/password user story. We added this clickable link to the login screen but did not manage to get it linked to a new activity where one could answer security questions to reset their password. The second of our unfinished user stories was one to have passwords encrypted. We did manage to require a password to log in, and hid its input as stars so it was not readable, but before we finish this user story we will apply at least a basic encryption method to the passwords before they are stored in the SQL database. The last unfinished user story was one to notify workers and managers about expired food. On our inventory page we allotted a spot in our table to list an items expiry date, but did not get the notification system up and running yet so there is still more to accomplish. Overall we got a lot of work done this sprint, but due to a lot of our user stories relying on a SQL database, we will most likely be breaking them apart or rewording them to allow for noticeable progress separate from our storage of data.

For this sprint we managed to write 27 different tests covering every java file written. The tests tested navigation and button presses from every screen to corresponding screens. Additionally we wrote tests that checked our login screen under different logins and how they corresponded to different home screens. While testing a live android environment was a steep learning curve and something new to the entire group, we managed to finish with all 27 of our tests passing and they helped us shape our code into separate services that are linked and work together.