CS 408: Sprint 2 Incremental Testing and Regression Testing
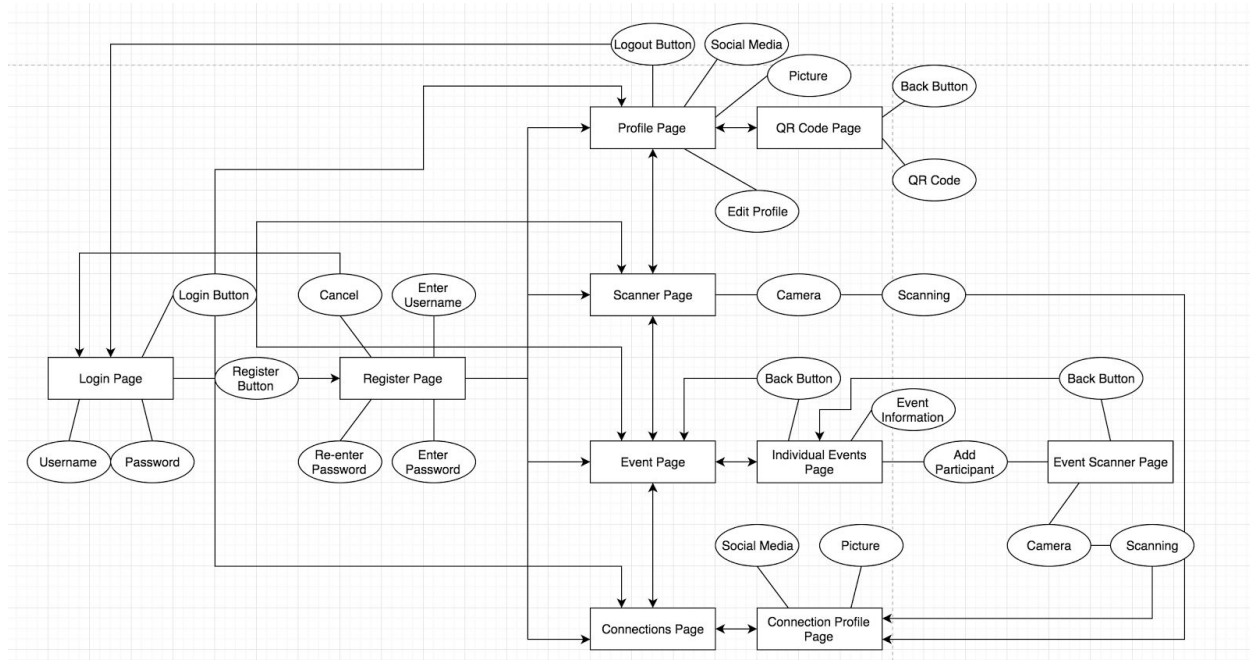
1. Classification of Components

Main Components	Input, Output + Dependent Components
Login Page	User enters username and password. Gets logged in if successful, stays on same page if not successful. Takes user to Scanner Page. If user clicks on Register button
Register Page	User enters new username, password, and re-enters password. Gets a registration success if username not taken, else asks for user to enter another username. Gets taken to Login Page.
Profile Page	Has information about user, their social media and a button to logout at the top left corner. Clicking that will take user back to Login Page. Also a QR Code button on the top right corner. Clicking that will take user to their

	unique QR Code.
Scanner Page	Scanner will open up camera to scan for QR Code. After scanning another qr code, page will open up to profile page of another person's information.
Event Page	List of Events that user is going to attend/has attended. Clicking on any event will open to the individual event page.
QR Code Page	Has user's qr code dependent of their username and a back button to go back to the profile page.
Individual Event Page	Has information contain details about the event such as the date and time of the event as well as a description. Selecting the back button would take you back to the user's Event page. Dependent component is the Event Page.
Event Scanner Page	Scanner within Individual Events page only accessible to moderators for the specific event. It serves to check in people at the event.
Connection Page	Has a list information about User's most recent connections with other users.
Connection Profile Page	Clicking on a profile within the connections page will lead to a profile page of the other user's information, except with no access to their QR Code or the ability to edit their profile information.

We used **bottom up testing** to test each of our main components because it was more appropriate for our project. Each page is build to be dependent on each other so it was easier to work from the bottom of the hierarchy. Initially, we tested the the Profile Page, Connections, and the Event Page because those components are all individual and don't require the need of other components. Then we tested the pages within the Profile Page, which is the QR Code page and whether hitting Logout would take us to another page. The last two tests were for the login and

registration page and seeing if they had a link together and that the login page linked to the profile, scanner and event page.

2. Incremental and Regression Testing

Module	Profile Page

Incremental Testing

Defect No.	Description	Severity	How to Correct
1	When clicked the "save profile" button on the edit page, user entered data would not save and crash the application.	1	Pass props down from profile to edit profile page, then pass updated props back. If nothing is changed, nothing should update.
2	When clicking the "save profile image" button on the edit page, the image would not save to the main profile page.	2	Image was set up as requiring a file, so could not pass props. Changed to requiring the string for the file.

Regression Testing

Defect No.	Description	Severity	How to Correct
3	After getting to update the user information and profile picture if we went to another page and back to the profile page the information would not be saved.	3	Had to pass props back from edit profile page to profile page and check if any information had been changed.
4	After updating the user information and profile picture, if we logged out and logged back in the image	3	Had to add the API call to save changed information on the profile page.

	and entered texts didn't save.		

Module	**Connections Page**

Incremental Testing

Defect No.	Description	Severity	How to Correct
5	When clicked on a profile name, it would jump to your own profile page instead of a temporary profile page.	2	Add a unique user id to each profile page, so it will direct to each person's profile.
6	When clicked on a profile name, the temporary profile page would be populated with your own data.	2	With a unique user id, clicking on a profile name will go the specific person's profile page.

Regression Testing

Defect No.	Description	Severity	How to Correct
7	When clicking on the back button of the temporary profile page, it would not go back to the network connections page, instead it would go to your own profile page.	1	Change the routing to go to a temporary profile page where we would populate the information from other users.

Module	**Individual Event Page**

Incremental Testing

Defect No.	Description	Severity	How to Correct
8	Clicking Event Scanner from Individual Event page caused user to be taken to wrong scanner page, resulting in an infinite loop since user can't exit out.	2	Had to create a method to get rid of infinite loop by setting the back button properties back to the Events Page.

Module	Event Scanner Page

Regression Testing

Defect No.	Description	Severity	How to Correct
9	Event Scanner returned wrong callback method when switching applications.	2	Didn't distinguish navigation name for Event Scanner and Regular Scanner, causing app to confuse the callback functions when called upon. Distinguishing the names in navigation let the app return the right callback methods.