**CSE 216 Project Manager Report: Phase 2, Team**

List your team members, providing name, email, and role for this project. Also provide the URL where your live Heroku-hosted web front-end can be found.

**Back-End Server**

Describe the OAuth implementation for the back-end. How much code is duplicated for the web and Android apps?

* Receive ID token form front-end
* Decrypt to get info
* Send encrypted data back to front end
* Store user-id into hash-table

Is the back-end code appropriately organized into files / classes / packages?

* Back-end code is appropriately organized into files / classes / packages

Are the dependencies in the pom.xml file appropriate? Were there any unexpected dependencies added to the program?

* All dependencies are appropriate
* The google API client dependency was unexpected

What was the biggest issue that came up in code review of the back-end server?

* Google OAuth; couldn’t decrypt token for a while.

What technical debt do you see in the current back-end server implementation?

* Retrieve User ID function is not yet working.

Describe any refactoring that was performed to reduce technical debt from the last phase

* No refactoring was performed

How did you test the back-end OAuth?

* Look at the log in Heroku.
* Used postman to send token and test response result.

**Web Front-End**

What approach was used for the web's OAuth flow?

* Sign in from profile
* Display basic profile
* Send token to server
* Receives token from token and stores as hidden element

Is the web front-end appropriately organized into files / classes / packages?

* Front-end code is appropriately organized into files / classes / packages

Are the dependencies in the package.json file appropriate? Were there any unexpected dependencies added to the program?

* All dependencies are appropriate
* No unexpected dependencies.

What was the biggest issue that came up in code review of the web front-end?

* Connect with server but cannot display comments correctly

What technical debt do you see in the current web front-end implementation?

* None for this phase

How are you testing the web front-end OAuth?

* Checked session ID
* console.log

**Android App**

What approach was used for the Android app's OAuth flow?

* Sign in from profile
* Display basic profile
* Send token to server
* Receives token from token and stores as hidden element

Is the android app appropriately organized into files / classes / packages?

* Android code is appropriately organized into files / classes / packages

Are the dependencies in the build.gradle file appropriate? Were there any unexpected dependencies added to the program?

* All dependencies are appropriate
* Nothing was unexpected other than OAuth dependencies

What was the biggest issue that came up in code review of the android app?

* Sending token with OAuth
* Comments with backend

What technical debt do you see in the current android app implementation?

* Tidying up layout files
* Profile – no bio, layout issues

How are you testing the Android OAuth implementation?

* Seeing what is returned from backend
* Logging in with multiple accounts
* Trial and error

**The Admin App**

How did your admin developer take advantage of this sprint to reduce technical debt?

* Separated database into 4 different tables form the singular table

**Project-Wide**

Describe any ways in which your team has become more or less effective over time?

How well did your team estimate effort?

* Fairly well, everyone started early and worked together to fill in the gaps where everyone was lacking

What techniques (team programming, timelines, group design exercises) did you use to mitigate risk?

* Utilized Trello to keep track of tasks and GroupMe to keep everyone updated on what was going on.

Were there any team issues that arose?

* There were no major team issues that arose. Timeline issues with Admin and Backend led to some issues on the front-end however it was resolved.

Describe the most significant obstacle or difficulty your team faced.

* The most significant obstacle we faced had to be transitioning to completely online communication, but it was overcome through constant communication.

What is your biggest concern as you think ahead to the next phase of the project?

* The biggest concern is working with some of the phases that are not completely finished.

Submit documentation for the user interface for the apps and document the flows related to authentication.

Submit the completed “CSE216 Project Manager Design Thinking Phase 2” form.