## CSE 216 Project Manager Report: Phase 3, 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.

Letong Zhang lez221@lehigh.edu Android
Shengyi Yu shy221@lehigh.edu Admin
Zehui Xiao zex220@lehigh.edu Web
Yuming Tian yut222@lehigh.edu Backend
Xingchen Liu xil321@lehigh.edu PM

https://arcane-refuge-67249.herokuapp.com/

**Back-End Server**
Describe the OAuth implementation for the backend. How much code is duplicated for the web and Android apps?
Web and Android send backend the authenticate code
None
Is the back-end code appropriately organized into files / classes / packages?
Yes
Are the dependencies in the pom.xml file appropriate? Were there any unexpected dependencies added to the program?
Yes, No
What was the biggest issue that came up in code review of the back-end server?
We have too many classes in our backend. Most of it are used to format data that send to frontend. It seems like some of it we are not going to use in the future, but we didn't delete them.
What technical debt do you see in the current back-end server implementation?
No
Describe any refactoring that was performed to reduce technical debt from the last phase
No
How did you test the back-end OAuth?
Using curl

**Web Front-End**
What approach was used for the web's OAuth flow?
Using google api @types/gapi to handle sign-in, authorization and authentication.
Is the web front-end appropriately organized into files / classes / packages?
Yes
Are the dependencies in the package.json file appropriate? Were there any unexpected dependencies added to the program?
Yes. No.
What was the biggest issue that came up in code review of the web front-end?
GAPI method doesn't work in latest version of google chrome due to cookie default setting. Problem solved when switching to a different machine with earlier chrome version.
What technical debt do you see in the current web front-end implementation?
Need to handle resign-in after calling sign out function.
How are you testing the web front-end OAuth?
By using curl that was listed in the OAuth Note docs. And running heroku site and reviewing logs and console.

**Android App**
What approach was used for the Android app's OAuth flow?
Using google api @types/gapi to handle sign-in, authorization and authentication.
Is the android app appropriately organized into files / classes / packages?
Yes
Are the dependencies in the build.gradle file appropriate? Were there any unexpected dependencies added to the program?
Yes. No.
What was the biggest issue that came up in code review of the android app?
Technical debt from last phase. Our android this phase tried to fix it. But reading the code from last phase was hard because there was no comments.
What technical debt do you see in the current android app implementation?
The was some issue with configuration. When log in with OAuth, there might be some situation that user was not logged in. Technical debt from last phase was not fixed.
How are you testing the Android OAuth implementation?
Test with different client ID to see when using the correct client ID, does the code runs correctly.

**The Admin App**
How did your admin developer take advantage of this sprint to reduce technical debt?
Eva tested all features from the admin app and fixed bugs from the last phase. She also cleared params such as salt and password corresponding to the backend requirement for OAuth.

**Project-Wide**
Describe any ways in which your team has become more or less effective over time?
Less effective because there is redundancy, e.g. PM created keystore once and get SHA-1 in order to create the Android Client ID, but later discovered that Android need to use his own SHA-1.
How well did your team estimate effort?
We put in more then enough effort.
What techniques (team programming, timelines, group design exercises) did you use to mitigate risk?
Team programming meetings (scrum meetings).
Were there any team issues that arose?
We had some vague error code that we don't know what exactly was wrong. There was no reply on piazza, so it stops our progress and took too much time to fix it.
Describe the most significant obstacle or difficulty your team faced.
Misunderstanding of which branch should do what job in OAuth.
What is your biggest concern as you think ahead to the next phase of the project?
We realized that there were some technical debts (missing function such as click on the name of a user to see his/hers profile) from last phase in Android, but we don't have time to fix all of them in this phase.
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 3" form.