



OPSC7312

Change Log

Application Name: One Direction
Application ID: ONED30
Version: 1.30

Student Number: 17667327
Course: BCAD3
Subject: OPSC7312
Lecturer: Nirasha Ramckurran
Assignment: POE – Change Log
Due Date: 31/08/2020

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Introduction

As part of our OPSC7312 project, we were tasked with researching three existing mapping applications. The following information was provided in our Task 1 research document:

- Introduction
- Research of each mapping application, including:
 - Overview of the app.
 - Strengths and weaknesses of the app.
 - Understanding of how the application was implemented in Android Studio.
 - Screenshots of the app.
- A comparison of all three apps, including an infographic.
- A list of the best features of all the apps that you want to use in your final app.
- Conclusion.
- References.

The three applications which I assessed in my research document were:

- HERE WeGo – City Navigation
- MAPS.ME – Offline maps, travel guides & navigation
- Waze – GPS, Maps, Traffic Alerts & Live Navigation

Once the research document was completed, a design document was generated for our own application. This included the following information:

- Brief overview of your app including the app's innovative features.
- A list of functions, described in detail, that your app will perform.
- User interface design for each screen as well as navigation information between each screen.
- Detailed listing of the data that the app needs to capture from the user and store as well as how you will store this data.
- Project plan detailing deadlines and milestones for your project.
- References.

This information was used when developing our own mapping application.

For our POE submission, we were tasked with improving our Task 1 research document, and updating our design documentation. We were also tasked with improving our mapping application, and including additional features. Details of these two tasks are included in the following section.

Task 1 Improvements

The following feedback was received for my Task 1 submission:

Student	Dicks, Karl	
Student #	17667327	
Task 1	Max	Student
Intro & conclusion	10	8
App 1 research	10	9
App 2 research	10	9
App 3 research	10	9
Comparison	10	10
List of features	10	9
Innovation overview	10	8
List of functions	10	9
Data listing	10	9
Project plan	10	10
Total	100	90

Comments

Well researched and presented. Good choice of apps. Design done well.

I have made the following changes to my Task 1 assignment:

- Introduction and conclusion have been updated and improved (expanded on).
- Application 1 research improved and expanded upon.
- Application 2 research improved and expanded upon.
- Application 3 research improved and expanded upon.
- Grammar corrected.
- Spelling mistakes corrected.
- List of features expanded on to include new features in POE.
- Innovation overview expanded to include new features in POE.
- Design document updated, including the following changes:
 - List of features updated.
 - Screenshots updated.
 - Screenshot descriptions updated.
 - Data listing updated – inclusion of new fields implemented in POE.
 - Inclusion of additional features which have been implemented.
- References updated.
- All documents saved to PDF format, to ensure formatting is correct.

The above changes have been made to my Task 1 assignment, in order to update its content and improve it based on lecturer feedback.

Task 2 Improvements

The following feedback was received for my Task 2 submission:

Student Name	Dicks, Karl		
Student Number	17667327		
	Max	Student	Comments
App runs on emulator	10	10	login & reg / profile fully functional. Types of trans included. Map loads and markers work. Verifications added extras. Map styles added. Sms activity with location handled well. Demo link provided to youtube video. Demo done well with voice over. All reqs met. Docs and diagrams included. Pdf all docs
<u>Features</u>			
Login & reg	10	10	
Metric and imperial	10	10	
Storage / settings	10	10	
Landmarks / markers	10	10	
Route / mapping	10	10	
Time & distance / saving	10	10	
Interface	20	18	
Demo	10	10	
	100	98	

The following changes have been made to my Task 2 assignment (practical), in order to improve on the original design, and include required features for the POE submission:

- The application design has been improved, including:
 - Video renders have been used for login and registration pages – made in blender.
 - Button backgrounds have been changed (and transparency added).
 - Modal popup colours have been changed, and transparency has been added to some areas, where it does not impede clarity of text and functionality.
 - Text color has been changed to make it clearer, and look more professional.
 - Text spacing and font size was changed on some activities, in order to improve consistency.
 - Edit texts have been improved, by adding rounded corners, and a white background, which is semi-transparent, and icons have been added for the input fields (such as a lock for the password, etc). This makes it clearer for the users to understand inputs, and makes it look more professional.
 - Route history included (as it was in Task 2).
- The application has been built to an APK, and is ready for publishing on the Google Play Store – the process has been described in the documentation.
- Thorough testing was completed, in order to provide a high level of stability for the application on mobile devices running Android.
- The demo video has been updated to include additional functionality and improvements.
- Documentation has been updated, and converted to PDF to retain formatting.

The above changes have been made to my Task 2 assignment, in order to update its design and functionality based on lecturer feedback.

Conclusion

In conclusion, the above-mentioned changes have been implemented in my Task 1 and Task 2 assignments, in order to improve their quality. Additional functionality has been included in the practical submission, in order to complete all required functionality in the POE question paper, and the design of the application has also been improved.

Debugging has been carried out, in order to address application bugs and issues which were not obvious in Task 2. These issues have since been resolved, and changes have been made for the final POE submission.

The POE contains documentation for publishing the application to the play store, and the application has been built to an APK, so it can easily be installed on any Android device with an SDK of 23 or above.

The application is therefore ready to be published to the Google Play Store.