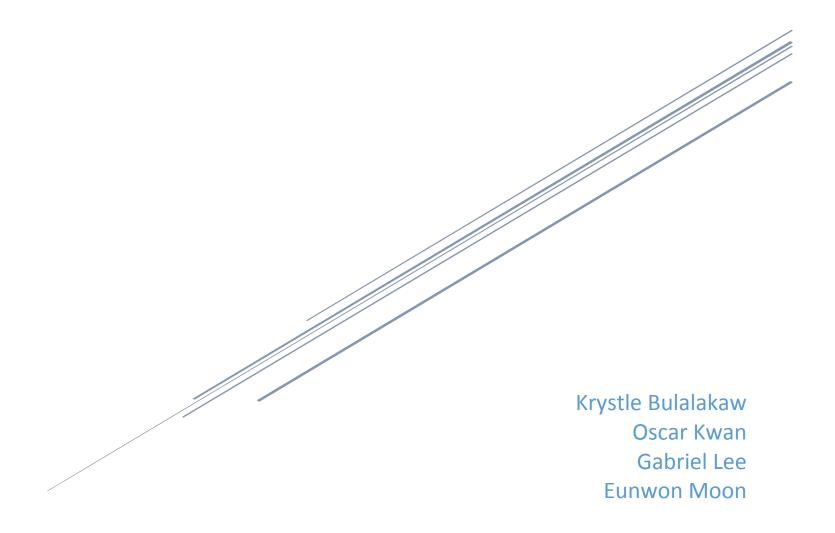
# **TEST DOCUMENT**

COMP4985 Android GPS Project



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#### Introduction

This document explains the testing strategy for the Android GPS project. It covers all the main elements (coverage, strategy, methods), as well as the list of test cases that the project will be tested against.

The focus of the testing will be the core functionalities of the project via manual testing. The testing will be performed by each individual members responsible for their own sections of the project.

#### Test Plan

This section covers the details of the testing that will be performed.

#### Test Coverage

The testing will cover all aspects of the application: server, Android app, and the webpages. The focus, however, will the core functionality of the project such as the server receiving datagrams and the web page displaying the location with markers.

#### **Test Strategy**

All the testing will be performed manually. Due to the straightforwardness of the project, unit testing and automated testing will only be "more trouble than its worth".

#### Test Schedule

The testing is to be performed when all of the development has been completed.

#### **Test Cases**

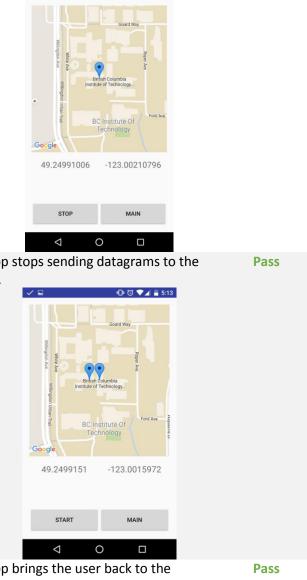
Test ID	Test Description	Preregs	Test Data	Test P	rocedure	Expected Result	Pass/Fail
	•				Se	erver	
<i>S</i> 1	The server starts properly.	N/A	Java udps_sq I 51234	1.	Run the runnable JAR file with a port number.	The server will start normally and listen for datagrams.	Pass

<i>S2</i>	The server returns displays usage if port is not defined.	N/A	java udps_sq I	1.	Run the runnable JAR file without a port number.	The server will exit immediately after displaying the usage.  ubuntu@ip-172-31-26-0:~/java\$ java -jar udps_sql.jar Usage Error : java udps <port> ubuntu@ip-172-31-26-0:~/java\$</port>	Pass
<i>S3</i>	The server is able to receive data from the clients.	The server is running.	N/A	1.	An android app client starts sending datagrams	The server displays data received from the client.  ubuntu@ip-172-31-26-0:~/java\$ java -jar udps_sql.jar 51234 Connecting to database Listening on port: 51234  Datagram from: /142.232.141.162:41216  Message: INSERT INTO `markers`(`name`, `lat`, `lng`, `ip`) VALUES ('moon',49.24989628,-123.08190143,'142.232.141.162'); Listening on port: 51234  Datagram from: /142.232.141.162:41216  Message: INSERT INTO `markers`(`name`, `lat`, `lng`, `ip`) VALUES ('moon',49.24987450,-123.08163280,'142.232.141.162'); Listening on port: 51234	Pass
<i>S4</i>	The server parses the client's data correctly.	The server is running.	N/A	1.	An android app client starts sending datagrams	The server parses the client's data; timestamp, longitude, latitude, name.	Pass
<i>S5</i>	The server updates the database with the client data.	The server is running.	N/A	1.	An android app client starts sending datagrams .	The MySQL database is updated with the data from the client.    id	Pass
<i>S6</i>	The server timeout if no datagram has been received.	The server is running.	N/A	1.	Wait 100 seconds.	The server's datagram socket timeout and exit out of the program.  ubuntu@ip-172-31-26-0:~/java\$ java -jar udps_sql.jar 51234 Connecting to database Listening on port: 51234 Socket timed out!	Pass

#### Android App

The app N/A N/A 1. Start the app. The app loads properly to the connection A1 **Pass** loads configuration screen. **(□)** (3) **▼⊿** 🖥 3:54 properly. GpsTrack Name Server IP Port No 51234 0 1. Empty the *Name* The app informs the user to fill out the form. The app The app is N/A **Pass ①** ७ ▼⊿ 🛭 5:51 running and field. prevents GpsTrack users from at the 2. Select Start. using the app connection without the configuration Name field. screen. Name Server IP Port No 51234 START Please fill out the form. 0 1. Empty the Server The app informs the user to fill out the form. The app The app is N/A *A3* **Pass** running and IP field. prevents

	users from using the app without the Server IP field.	at the connection configuration screen.		2.	Select Start.		
A4	The app prevents users from using the app without the Port No field.	The app is running and at the connection configuration screen.	N/A	1.	No field.	The app informs the user to fill out the form.	Pass
A5	The app starts properly with all connection forms filled.	The app is running and at the connection configuration screen.	Name: testuser Server IP: 52.37.226.120 Port No: 51234	3.	to Name. Input "52.37.226.120" to Server IP.	The app brings the user to the Google Maps page.  West of the Google Maps page.  West of the Google Maps page.  West of the Google Maps page.  Vancouver	Pass
A6	The app is able to send datagrams to the server.	The app is running and at the Map page.	N/A	1.	Select Start.	The app begins to send datagrams to the server.	Pass



A7 The app is The app is able to stop running and sending datagrams to the server.

at the Map page sending datagrams.

N/A

1. Select Stop.

The app stops sending datagrams to the server.

Selecting The app is N/A A8 Main brings running and the user back

1. Select Main.

The app brings the user back to the connection configuration screen for new connection.

	to the connection configuration screen.	at the Map page.			Wah ngga		I
W1	The webpage brings the user to the login page.	N/A	N/A	1.	Web page Open the web page.	The web page requires the user to login before usage.  Your Email  Your Password  Sign Up Here	Pass
W2	The webpage allows new users to register an account.	N/A	Name: Test Email: test@test.test Password: test	2.	Input "Test" to Name field. Input "test@test.test" to Email field. Input "test" to Password field. Select OK.	The webpage allows the user to register for an account.  User name  Email Address  Password  Red SIGN UP  Sign In Here	Pass
W3	The webpage allows	The user already has	Name: Test	1.	Input "Test" to Name field.	The user is able to login and is redirected to the map page.	Pass

	existing user to login.	an existing account.	Email: test@test.test Password: test	3.	Input "test@test.test" to Email field. Input "test" to Password field. Select OK.		
W4	The webpage displays different users in different color markers.	The webpage is at the Map page.	N/A	1. 2. 3.	Start the server. Start the app.	The two devices are displayed in different colors.	Pass
W5	When click on marker, name and timestamp displays.	Must have markers on webpage	N/A	1. 2. 3. 4.	Open webpage Login Click on marker Observe popup window	Name and timestamp is displayed  moongom × 2016-03-21 03:21:51	Pass
W6	User displayed on bottom of webpage	Must have user logged in	N/A	1. 2. 3.	Open webpage Login Observer bottom bar	Info displayed correctly.  Android GPS Tracker   Krystle Information Sign Out	Pass
W7	Clients tracking info displayed	Must have logged in. Must have markers.	N/A	<ol> <li>1.</li> <li>2.</li> <li>3.</li> </ol>	Open webpage Login Clik info on bottom bar Observe modal window	Modal window displays all registered users, and info of all markers.	Pass

### (x)

#### Users

- Krystle
- Oscar
- Eunwon
- Gabriel
- Spenser
- Alvin
- moon

#### Information

Timestamp	Name	Latitude	Longitude	IP Address
2016-03-21 09:33:03	krystle	49.24991000	-123.00211000	142.232.131.217
2016-03-21 09:39:43	Eunwon	49.24986607	-123.00197086	142.232.141.162
2016-03-21 09:40:13	Funwon	49 24986607	-123 00197086	142 232 141 162