

## Table of Contents

<b>Description.....</b>	<b>1</b>
<b>Intended User .....</b>	<b>1</b>
<b>Features.....</b>	<b>1</b>
<b>User Interface Mocks (Phone).....</b>	<b>2</b>
<b>User Interface Mocks (Tablet).....</b>	<b>2</b>
<b>Key Considerations.....</b>	<b>3</b>
How will your app handle data persistence? .....	3
Describe any corner cases in the UX. ....	3
Describe any libraries you'll be using and share your reasoning for including them. ....	3
Google/Firebase Services.....	3
<b>Next Steps: Required Tasks.....</b>	<b>3</b>
Task 1: Project Setup .....	3
Task 2: Google APIs setup .....	3
Task 3: Implement UI for Each Activity and Fragment .....	3
Task 3: Your Next Task.....	3
Task 4: Create Widget.....	4

GitHub Username: [Jacko1972](#)

# Aviate

## Description

An App to provide access to important and the latest Aviation weather information issued by Aerodrome/Heliports (AD/HPs) globally.

## Intended User

Anyone who requires or wants access to Aviation Weather reports from aviation enthusiasts to Commercial pilots.

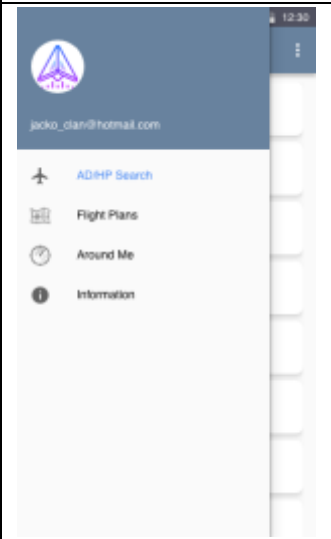
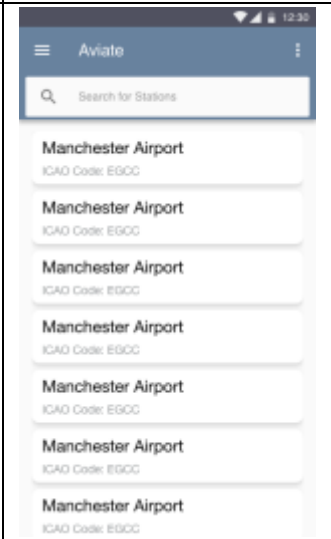
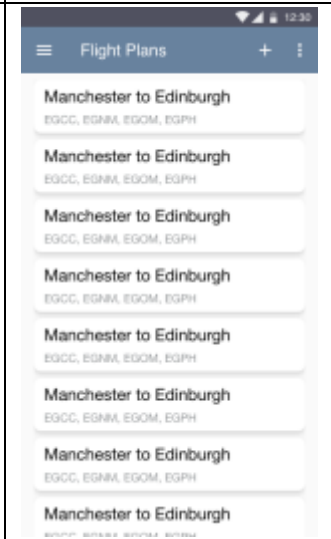
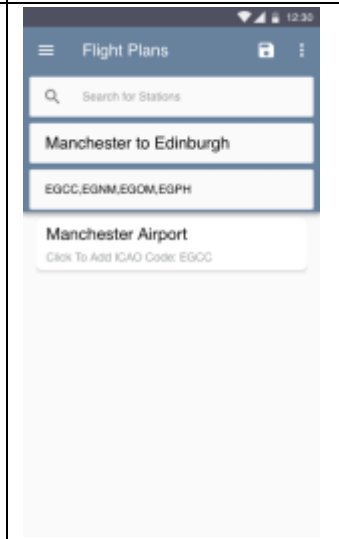
## Features

Fit Me App has the following features:

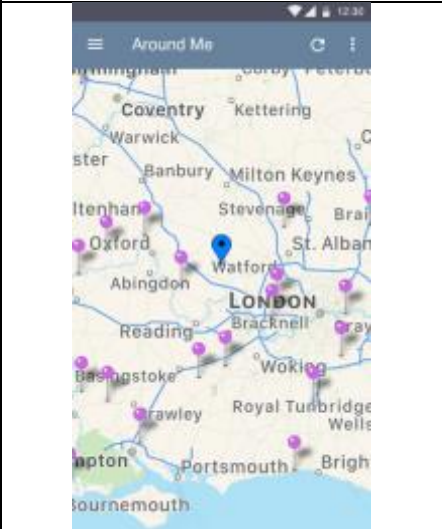
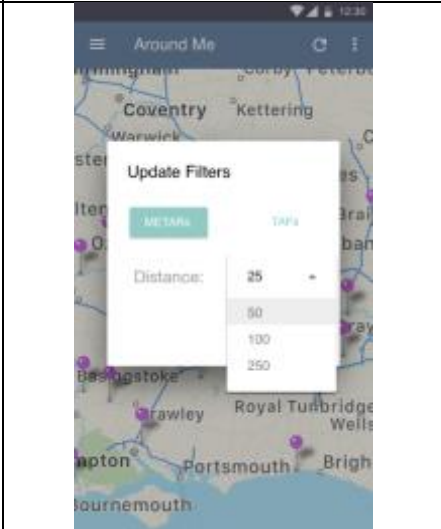

- Provides access to current weather information by AD/HP.
- Displays a list of flight the user can create and save on the device so one click can download all relevant information on the flight path.
- Using Google Maps the user can display the information on a Map around their current location.
- Provides a service to download the information for one AD/HP provided by the user and display it in a widget.

User Interface Mocks (Phone)

Created with the Adobe Creative Cloud program, Experience Design (Beta).

Navigation Drawer	AD/HP Search Screen	Flight Plan List	Flight Plan Builder
			

A variety of screens to cover the UI layouts used in the Application.

Around Me Map	Around Me Filter Dialog	Widget
		

A variety of screens to cover the UI layouts used in the Application.

User Interface Mocks (Tablet)

UI layouts for Tablets will follow Material Design specifications following the Phone layouts above. Predominantly the App will be used on a phone, due to ease of stowing a phone whilst flying.

## Key Considerations

### How will your app handle data persistence?

- A Content Provider will hold a persistent record of the Flight Plans and the stored data will be used to provide the user with quick access to weather information along the flight path.
- A Loader will be used to fill a list view of Flight Plans.

### Describe any corner cases in the UX.

- A Navigation Drawer will provide access to the different functions the App provides.
- When required an icon will appear on the top right of the screen to provide extra navigation options.

### Describe any libraries you'll be using and share your reasoning for including them.

- Android Design Support Libraries – Material based design and other fantastic features.
- Retrofit2 – Used to download data from the data source.
- Schematic – Creates a Content Provider backed by an SQL database.

### Google/Firebase Services

- Google Play Services for Location based information
- Google Maps API for display of Maps and locations of Weather information.
- Google Firebase Analytics and Crash Reporting

## Next Steps: Required Tasks

### Task 1: Project Setup

- Create project in Android Studio
- Create Classes

### Task 2: Google APIs setup

- Create Project in Google Developer Console
- Create Google Maps API Credentials
- Import Project in Firebase Developer Console
- Setup Firebase Analytics for use in Project

### Task 3: Implement UI for Each Activity and Fragment

- Build a UI for Aerodrome/Heliport Search and a UI for displaying selected AD/HP information.
- Build a UI for Flight Path listing and creation.
- Build a UI for displaying Weather Information around the user's current location, provide filters for the two different types of information and allow to set a distance from the location of the user.
- Build a UI for Instructions for User

### Task 3: Implement App Logic and Libraries/APIs

- Implement Firebase Analytics and Crash Reporting
- Implement Google Maps integration

- Create Content Provider for storing Flight Plans
- Create Loader to provide a list of stored Flight Plans
- Generate access to 'fake' Weather Information source, as this is a development app, data will be downloaded via web interface that will be turned off once project is completed.

## Task 4: Create Widget

- Build a widget that displays the latest downloaded information from the service built into the App.

---

### Submission Instructions

1. After you've completed all the sections, download this document as a PDF [ File → Download as PDF ]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone\_Stage1.pdf**"