**FitTravel Requirements**

**Non-Functional**

1. To use this application the user must be running an Android device with Android API level 12 (Android 3.1 Honeycomb) or higher.
2. The application will require the following permissions: read/write access, location, internet, and network state.
3. The application will require the user to sign in using an OAuth system, as well as connect the application to their Fitbit account.

**Functional**

1)

a) The user will be able to select a beginning and ending location.   
b) The starting location can be determined from the user’s current location if the user so chooses. The user will use these locations as a beginning and end point on a mock journey.

2)

a) The application will use locations A and B to determine the distance the user must travel to complete the journey.   
b) The application will update the user’s cumulative distance, starting from the beginning of the journey, by listening to the user’s Fitbit and updating in real, or near real time.

3)

a) The application will display the overall trip on a map provided by Google Maps.   
b) The application will display the user’s progress graphically, as well as numerically in miles, kilometers, or steps.  
c) As steps vary from person to person, the application will calculate the steps by taking the user’s stride length data from their Fitbit.

4)

a) Data will be collected from the user’s Fitbit device. This includes the user’s stride length as well as the distance they have traveled since their last sync.

5)

a) The user will be able to set their preferred measurement system, either metric or imperial units.

6)

a) The user will be able to start a new journey at any time from the settings menu.   
b) The user is also able to change the beginning or ending locations.

Add in work flow (user story)

ID requirements to map test cases to requirements

Get up on github

Keep track of tasks for project

**User opens app for the first time**  
The application opens to a map of the user’s current location.