**Outdoor Activity Weather Checker**

# Overview:

This is an application for trampers, mountain bikers, and other outdoor enthusiasts who would like to be able to check the upcoming weather forecast for their current location. The user will be able to get the current weather conditions as well as the weather conditions for the next five days. The application will also allow the user to specify a certain route, for example, the user will be able to plan a route and have a weather update immediately and for future expeditions.

# Functional Requirements:

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| The user shall: | The application shall: |
| Be able to plan specific routes in a location nearby. E.g. a start and an end point using Google Directions. | Find the users current location. |
| Be able to have access to a spinner which will allow them to choose whether they define a route by walking, running or biking. | Display a spinner which will show the user what type of route they can make. |
| Be able to save a route with the use of a button. | Display a button which will save the users route and take them to the next screen to view the weather forecast. |
| Be able to change route they previously made by using a ‘clear’ button. | Display a button to be able to clear the previously made route and create a new one. |
| Be able to check the current weather conditions, this will be displayed in a textview. | Get the current weather conditions for where the user is and where their route is being planned. |
| Be able to check the weather conditions for the next five days, this will be displayed by in a listview. | Get the weather conditions for the next five days to help the user determine the best possible route to take weather wise. |

# Web Services:

The following URL’s will be used to find the weather conditions for the application:

**openweathermap.org/api**

**wunderground.com/weather/api**

The following URL’s will be used to find the route for the application:

**mapbox.com/directions/**

**developers.google.com/maps/documentation/directions/**

# Required Hardware:

There is no extra required hardware for this application to run.

# Wireframes:

