**Major project: Weather view**

**Minimal viable product:**

Functional Requirements:

* Display weather data for current day
* Display weather forecast for the following 5 days
* Preferences: theme, local city, home page
* Local City options: Australian capital cities

Non-Functional Requirements:

* Coded in C#
* Utilise <https://openweathermap.org/api>
* Utilise UWP and xaml

**Additional features:**

* Search function to display current weather of any city.
* Additional images to cover the full range of possible weather types
* Overlay a map with filters using openweathermap’s weathermap API to present information on:
  + Precipitation
  + Temperature
  + Windspeed
  + Clouds
* Click on each Day of forecast for in-depth weather every 3 hours for that day
* Filter setting for current weather to display cities in different orders
* UV index for selected location

**Layout:**

Loads AU Weather page when clicked

Main Page: AU Weather Page:

Au Weather

Forecast

UK Weather

Au Weather

Forecast

UK Weather

Weather

Image here

Perth

25° C

Scattered clouds

Humidity: 56%

Pressure: 1010 hPa

Max: 28° C Min: 22° C

Forecast

Au Weather

UK Weather

Forecast

Au Weather

UK Weather

Loads Five Day forecast when clicked

Loads UK Weather page when clicked

UK Weather Page:

Weather

Image

here

Weather

Image

here

Weather

Image

here

Weather

Image

here

Weather

Image

here

London

15° C

Scattered clouds

Humidity: 56%

Pressure: 1010 hPa

Max: 18° C Min: 12° C

Weather

Image here

Five Day Forecast

Max: 31

Min: 17

Humidity: 30%

Pressure: 1017 hPa

Max: 31

Min: 17

Humidity: 30%

Pressure: 1017 hPa

Max: 31

Min: 17

Humidity: 30%

Pressure: 1017 hPa

Max: 31

Min: 17

Humidity: 30%

Pressure: 1017 hPa

Max: 31

Min: 17

Humidity: 30%

Pressure: 1017 hPa

Settings Page:

Loads Settings page when clicked

UK Weather

Au Weather

Forecast

Page Settings

Home City

Theme

Home Page

Save Changes

UML Diagram:

