Student Name : Dermot Madsen 20104123

Github Url : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Deployed URL : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Demo Video : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- |
| Grade Band | Reading | Station | Member | Features | Code |
| Baseline | Code Temp Wind Speed  Pressure | Station Name  Latest weather, + Utils folder added -conversion methods for Temp C, F, Wind Bft, pressure | None | Load and display stations + their readings from JSON file display latest weather for station | Zipped archive + Readme |
| Release 1 | + Wind Direction | + Wind Chill, Wind Compass | None | Dashboard shows station list + button to open station view. Include forms to add new Station + new reading | + Glitch Project |
| Release 2 | + Icons for weather code | +Lat, Lng,  + analytics file for  Max/Min (Temp, Wind, Pressure) | First Name, Last Name, Email, Password  + Stations | Members can signup/log in. Members may create any number of weather stations. Members + sample stations + readings loaded from json file | + github repo pushed from Glitch |
| Release 3 | + Time/Date | + Temp, Wind Pressure Trends with added icons to show trends | User can edit their personal details. | Member dashboard list summary lists latest conditions for all stations.  (alphabetically). Members can delete reports or stations | Github repo with history |
| Release 4 | Auto Read from OpenWeatherMap API | Station Map View |  | Simple Graph of Trends | Github repo tags |

**Extra Features**

No extra features were added beyond the project brief.

**Technologies Used**

* **Programming language** 
  + JavaScript
  + HTML
  + Bulma CSS framework
* **IDE** 
  + Glitch Development Platform
  + VS Code
* **Github**. All work/code pushed to Github repo via Version Control in VS Code and Glitch tools.
* **Fontawesome.** Provided icons.
* **Scalable Vector Graphics (SVG) 2.** Provided logos, icons and graphics.

**Screen resolution**

The screen resolution used to develop the application was set at 1920x1080

**Source of text, images and icons**

* All text used is original.
* Images are from a generic google (weather stations) image search.
* All icons were taken from fontawesome.com, SVG.

**AI declaration**

No AI was used.

**Reflection**

The weather application was a challenging project and at times I felt overwhelmed. Without the help and collaboration from my fellow classmates on slack I feel I would not have got as far as I did in the project.

In terms of learning and growth in the field of web development and programming, this project really helped to push me up another level. It has given me a deeper understanding of the MVC web development model and JavaScript programming language. I have gained more knowledge of the use of the express.js open-source server environment, Glitch and the handlebars templating. I did move away from using the Glitch platform as I found VS Code preferable when debugging.

**Payment**

In terms of Payment: I deserve a total of 60% to 70% of the total as I managed to complete release 4 apart from providing history tags in Github. Also, even though I have produced a working application the front end still need more work to increase the UX experience for example, there are only 8 weather codes to describe the weather code reading instead of the full standard range (the range can be obtained from the openweather application). There could have been more descriptive icons to give the application more variety and a more distinct brand.

**References**

W 3 Schools – multiple sources

Stackoverflow – multiple sources

Geeks for Geeks – multiple sources