Student Name : Dermot Madsen 20104123

Github Url : <https://github.com/dermie83/weathertop1000>

Deployed URL : <https://weathertopapp.cleverapps.io/>

Demo Video : <https://youtu.be/TiHOlT2QRiE>

Note: Green colour in cell indicates that the section was competed. Red indicates not completed.

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| --- | --- | --- | --- | --- | --- |
| Grade Band | Reading | Station | Member | Features | Code |
| Starter | Code Temp Wind Speed | Station Name | None | Load and display stations + their readings from YAML file/static database. | Github repo created. Version control utilised in IntelliJ |
| Baseline | + Pressure | + Latest weather, Temp C, F, Wind Bft, pressure | None | Dashboard display latest weather readings for station/s. | Commit and push code to repo. ReadMe file created |
| Release 1 | + Wind Direction | + Wind Chill, Wind Compass | None | Member Dashboard shows station list + button to open station view. Include forms to add new Station + new reading | Version control: Commit and push code to repo |
| Release 2 | Admin page added to show all readings in database | + Latitude, Longitude | User/Member signup and login/logout added from YAML file | Member Dashboard shows latest weather icons and max, min metrics | Version control: Commit and push code to repo |
| Release 3 | + Date/Time stamp and deleted support | + deleted support and view all readings in station | + edit support for Members details | Dashboard shows station summary in alphabetical order and latest weather trends for temp, wind, and pressure. | Connected to remote database (Cloud) and deployed the application from my Github repo.  Demo video of application recorded on Loom. Then uploaded to Youtube |

**Extra Features**

No extra features were added beyond the project brief.

**Technologies Used**

* **Java, HTML**. Programming language
* **IntellIJ IDEA**. IDE
* **(Play 1.6.0.)** Web application framework. MVC model method
* **Github**. All work/code pushed to Github repo via Version Control
* **Clever Cloud**. Platform used to deploy the application to the web
* **Elephantsql**. Database used to store readings, members and stations
* **Fontawesome.** Provided all icons
* **Loom.** Video recording of screen
* **Youtube.** Platform used to view demo video

**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

**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 app deployment. I have gained more experience on how to use many more systems and tools like IntelliJ IDEA, Bulma, Icons (Fontawesome), Github, Clever Cloud.

**Payment**

In terms of Payment: I deserve a total of 65% to 70% of the total. I have produced a working application but have not completed one element in release 3 (edit support for members.)

**References**

Geeks for Geeks: <https://www.geeksforgeeks.org/how-to-sort-an-arraylist-of-objects-by-property-in-java/>

Geeks for Geeks: <https://www.geeksforgeeks.org/check-if-an-array-is-increasing-or-decreasing/>