Advanced Software Engineering - CP3407

Agile Software Development

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| Jake Regattieri | * Project planning & scope * Project Description and research * User Stories * Gantt Chart * Architectural Design * Database Design * Interface Design |
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| GitHub: <https://github.com/pemmilicious/CP3407Assignment> | |

Alpha-release-iteration-1 report:

**[\_\_\_\_\_/20 marks] Report the *ACTUALLY* delivered alpha-release (see your user stories in iteration-1).**

* Any deviations from the alpha-release-iteration-1 must be documented and briefly explained.
* Screen-shots (or illustrations) of running alpha-release with comments or explanations.
* Write here: Minimum **TWO** pages, maximum **TEN** pages.

User story 1: Login (User should be able to log in to the application to prove they are an authorized user).

User story 2: View Dashboard (User should be able to view the latest weather information).

User story 3: Refresh (User is able to refresh the data to the latest information).

User story 4: Select reading (User can select a reading type and view previous readings stored in database).

User story 5: View reading information (Users should be able to know what they are looking at by using a guide or reference to inform them what the data means).

User story 6: Alarms (User should be able to view alarm information regarding the sensors).

User story 7: Settings (Users should be able to change the settings on what they are seeing).

User story 8: Date and Time stamps (User should be able to see the date and time that the data was retrieved).

User story 9: Export (Users should be able to export the data).

User story 10: Graphing the data (Users should be able to display the information in a graph so that they can look for trends).

Interface Design:

*External software libraries:*

**[\_\_\_\_\_/20 marks] External software libraries**.

* E.g. Open-source libraries and components
* Briefly explain what was used and why
* Write here: Minimum **ONE** page, maximum **TWO** pages.

Project Development:

development environment:

Our team have mostly working from home when designing the interface and software for a brand-new weather monitoring program but in order to get the most out of the Scrum project management method our team will be conducting weekly stand ups using skype.

source code repositories:

The code repositories our team will be using will be Github. Github link: https://github.com/pemmilicious/CP3407Assignment.git

project collaboration tools:

Our Team will be using project collaboration tools such as trello to help with the implementation of Scrum project management. Trello will be used in the creation of our team's scrum board and organization of the team's backlog. Another project collaboration tool our team used was skype for times where our team members were unavailable to meet in person, this allowed our team to not fall behind in development due to always being able to reliably contact one another throughout the projects development time period.

programming languages Consist of:

* Html
* css
* java script
* SQL

Development tools:

* Mysql will be used by our development team to store store the data in a database so that it can be retrieved to make comparisons and graphs.
* Node.js was used by our team as an open-source, cross-platform JavaScript run-time environment that executes JavaScript code outside of a browser.

<https://www.techpowerup.com/162522/stealth-com-introduces-a-new-21-5-marine-all-weather-sunlight-readable-hd-monitor>

<https://www.acurite.com/learn/weather-stations/what-is-a-weather-station>

<https://www.popsci.com.au/?src=redirect>