**Design Report Template Milestone 3**

**Ryan Coon**

**CST-361**

**Professor Mark Smithers**

**June 5, 2021**

**CST-361 - Design Report Template**

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| **Topic:** | *Milestone 3* | |
| **Date:** | *June 5, 2022* | |
| **Revision:** | *2.0* | |
| **Team:** | 1. *Ryan Coon* | |
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|  | |
| **Weekly Team Status Summary:** | |  |  |  |  | | --- | --- | --- | --- | | **User Story** | **Team**  **Member** | **Hours**  **Worked** | **Hours Remaining** | | *Update project management goals, objectives and tasks* | *Ryan* |  |  | | *Design and implement iteration 1 of the IoT emulated application* | *Ryan* |  |  | | *Design and implement iteration 1 of the IoT reporting application* | *Ryan* |  |  | | *Update the UML diagrams for use cases, applicable classes, deployment and component* | *Ryan* |  |  | | *Update the wireframe designs* | *Ryan* |  |  | | *Update the ER database design* | *Ryan* |  |  | | *Complete a test plan* | *Ryan* |  |  | | *Update the design report from Milestone 2* | *Ryan* |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |
| **GIT URL:** | *https://github.com/rcoon1/CST-361-CLC-Milestones/tree/main/Milestones* | |
| **Peer Review:** | *Y* | We acknowledge that our team has reviewed this report and we agree to the approach we are all taking. |

**Planning Documentation**

**Agile Scrum Product Backlog:**

*https://github.com/rcoon1/CST-361-CLC-Milestones/tree/main/Scrum-Sprint-Burndown*

**Agile Scrum Sprint Backlog:**

*https://github.com/rcoon1/CST-361-CLC-Milestones/tree/main/Scrum-Sprint-Burndown*

**Agile Scrum Burn Down Chart:**

*https://github.com/rcoon1/CST-361-CLC-Milestones/tree/main/Scrum-Sprint-Burndown*

**Agile Retrospective Results:**

*The following table should be completed after each Retrospective on Things That Went Well (Keep Doing). An alternative to the following table is to use a Mind Mapping tool such as Coggle. If you use a Mind Mapping tool you must include a URL or Image File.*

|  |
| --- |
| **What Went Well** |
|  |
|  |
|  |

*The following table should be completed after each Retrospective on Things That Didn’t Go Well (Stop Doing) and What Would Be Done Differently Next Time with an Action Plan to Improve (Try Doing and Continuous Improvement). An alternative to the following table is to use a Mind Mapping tool such as Coggle. If you use a Mind Mapping tool, you must include a URL or Image File.*

|  |  |  |
| --- | --- | --- |
| **What Did Not Go Well** | **Action Plan** | **Due Date** |
| **Time for 1 person to get everything done.** | **Spend a little more time on the CLC** |  |
|  |  |  |
|  |  |  |

**Design Documentation**

**Install Instructions:**

*This section should include step-by-step instructions for setting up your database, configuring, and deploying/installing your application. This section should also include detailed instructions for what configuration files are required by your application, what configuration settings need to be adjusted for various runtime (development or production) environments, and where the files need to be deployed to. This section should also contain detailed instructions for how to clone your application source code from Git and deploy the application to an externally hosted site.*

**General Technical Approach:**

*While researching IoT, I came upon the decision of creating an application that captures and saves data for the weather. The IoT device will be emulated..*

**Key Technical Design Decisions:**

*Any final technical design decisions, such as framework decisions etc., should be documented here. This should list the technology/framework, its purpose in the design, and why it was chosen.*

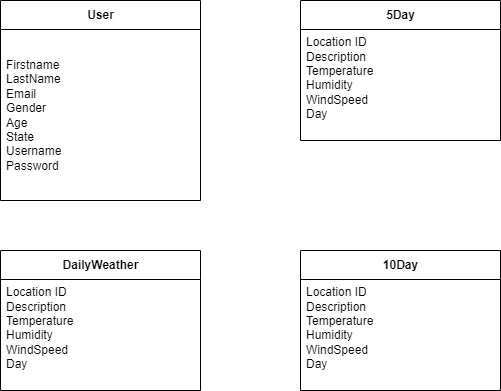
**Known Issues:**

*Any anomalies or known issues in the code or functionality should be documented here.*

**Risks:**

*Any risks, unknowns, or general project elements that should be tracked for risk management should be documented here.*

**ER Diagram:**

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*Will need to set the 5 and 10 days to choose 5 and 10 days from the dailyweather column.*

**DDL Scripts:**

*This should contain a link to GIT where the DDL script can be downloaded from.*

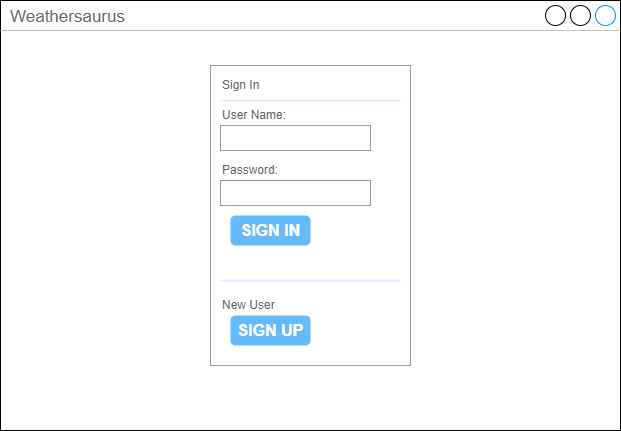
**Flow Charts:**

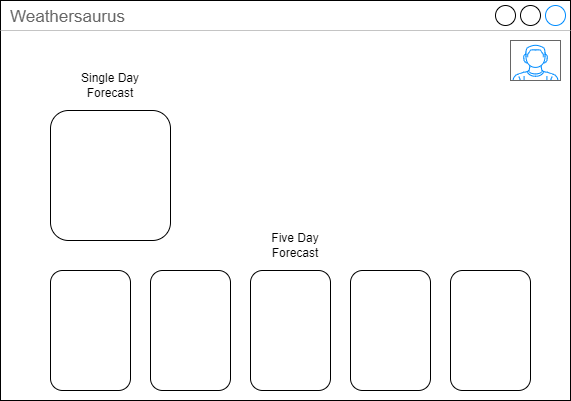
*You should insert any flowcharts here. Flowcharts should document algorithms or workflow that will be implemented in your program. At a minimum, this should contain a flowchart of the Minesweeper game logic.*

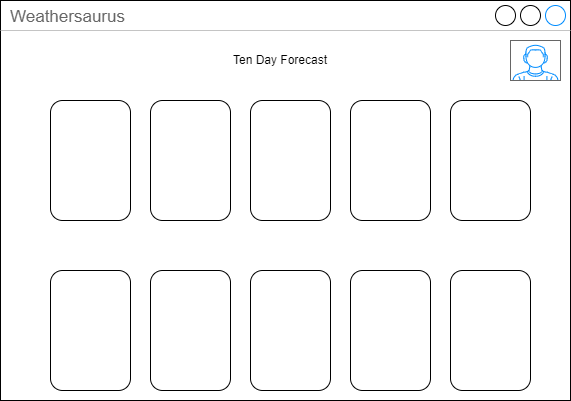
**Sitemap Diagram:**

*Image file of your Sitemap diagram.*

**User Interface Diagrams:**

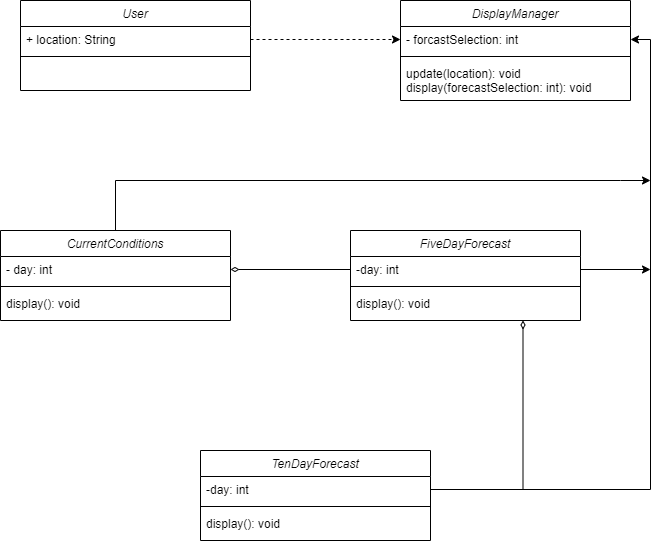




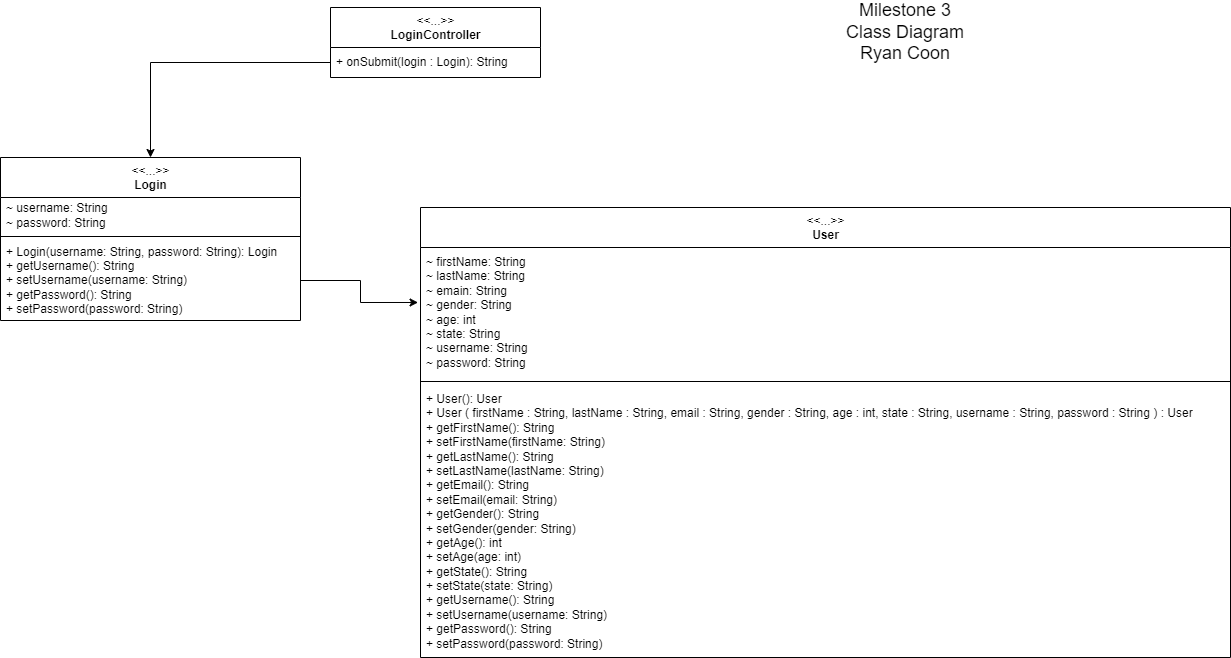


**Class Diagrams:**

**From Milestone 2:**



**Updated Class Diagram based on code written for milestone 3:**



**Service API Design:**

*This section should fully document any Third Party Service Interface APIs being consumed or application specific Service APIs being published, how to access the service, what parameters are required by the API, and the detailed JSON data format specification that could be used by a third party developer to integrate with the service and API.*

**Security Design:**

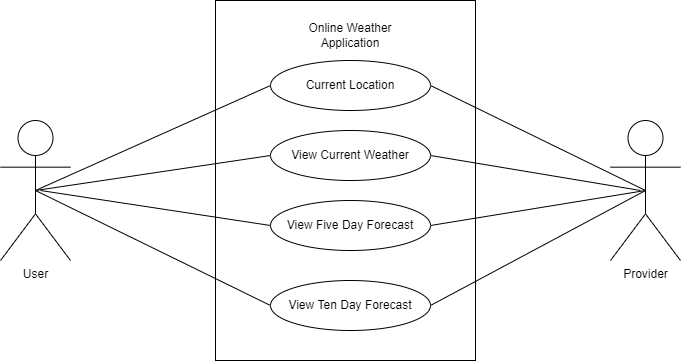
*This section should outline the design for how authentication and authorization was supported. This section should also contain all of the roles and privileges that are supported by the design.*

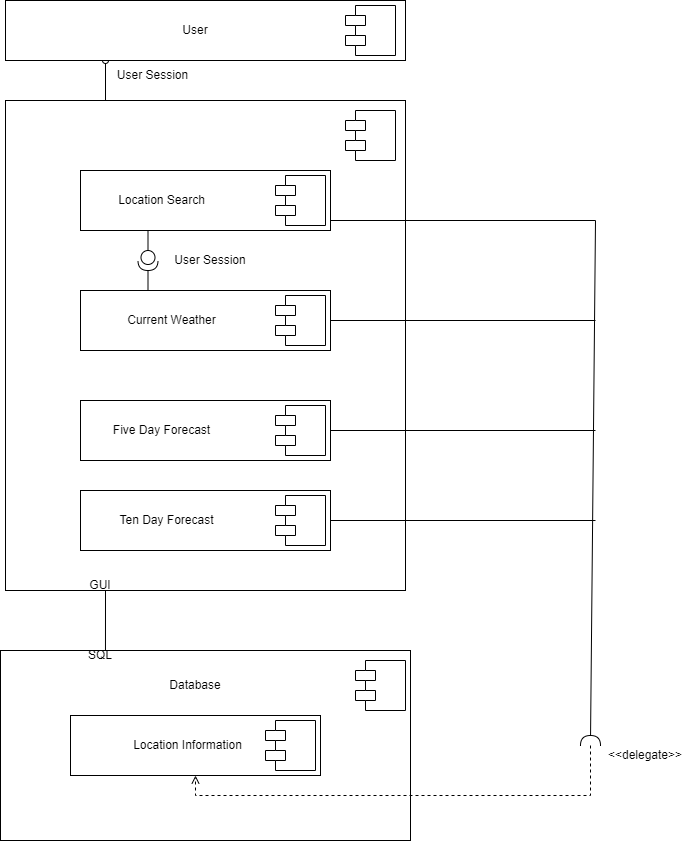
**Pseudo Code:**

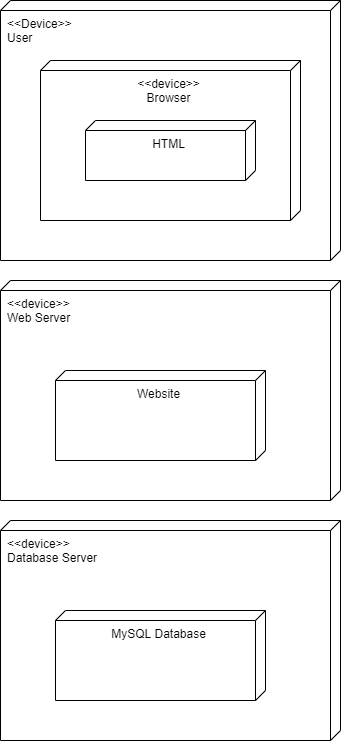
*You should provide GIT URL references to any code stubs and pseudo code. If you have no supporting documentation, please explain the rationale for leaving this section as N/A.*

**Other Documentation:**

*Use Case Diagram:*

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*Component Diagram:*

*Deployment Diagram:*