**CST-361 - Design Report Template**

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| **Topic:** | *Milestone 2* | |
| **Date:** | *10/16/2022* | |
| **Revision:** | *2.0* | |
| **Team:** | 1. *Branden McNeill.* | |
| 1. Lindsay Blood | |
|  | |
|  | |
| **Weekly Team Status Summary:** | |  |  |  |  | | --- | --- | --- | --- | | **User Story** | **Team**  **Member** | **Hours**  **Worked** | **Hours Remaining** | | *Wireframe mockups and design from researched insight.* | *Branden McNeill* | *1.5* | *0* | | *Researched collaborative insight into digital voice assistant.* | *Lindsay Blood* | *1.5* | *0* | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |
| **GIT URL:** | *https://github.com/BrandenMGCU/CST-361-GroupMilestone* | | https://github.com/BrandenMGCU/CST-361-GroupMilestone |
| **Peer Review:** | *Y/N* | We acknowledge that our team has reviewed this report and we agree to the approach we are all taking. Yes, all information has been peer reviewed. |

**Planning Documentation**

**Agile Scrum Product Backlog:**

*This needs to contain a URL to GIT Scrum Product Backlog Artifact.*

This will be determined next week. This is the initial report and foundation for the voice assistant. This information will be found here: https://github.com/BrandenMGCU/CST-361-GroupMilestone

**Agile Scrum Sprint Backlog:**

*This needs to contain a URL to a GIT Scrum Sprint Backlog Artifact. This current week’s progress should be reflected in the above section of this Design Report.*

This will be determined next week. This is the initial report and foundation for the voice assistant. This information will be found here: https://github.com/BrandenMGCU/CST-361-GroupMilestone

**Agile Scrum Burn Down Chart:**

*This needs to contain a URL to GIT Scrum Burn Down Chart Artifact.*

This will be determined next week. This is the initial report and foundation for the voice assistant. This information will be found here: https://github.com/BrandenMGCU/CST-361-GroupMilestone

**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** |
| **All in all, the collaborative efforts, and the scope of planning for at least 1-2 days out of the week for refinement.** |
| **Design Mockup was a bit more refined and quality.** |
| **Overall enthusiasm about the Milestone 3 and the development for next week after establishing footing this week.** |

*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** |
| **Timing between adjusting for assignments and the initials Milestone’s** | **Establishing the foundation for better implementation and footing next week.** | **10/18/22** |
|  |  |  |
|  |  |  |

**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.*

Not available currently, establishing the and implementation for accessing the IoT device and scope of deliverance and design.

**General Technical Approach:**

*You should, in your own words, describe your approach and design here. You should also summarize any meeting notes, brainstorming sessions, etc. that you want to retain through the design of your project.*

Want to deliver a quality IoT device, akin like approach to an Amazon Alexa Echo Device while keeping the security system in place, as well as overall functionality where possible.

**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.*

The technical design is that by utilizing the AWS framework to create a comparable IoT voice assistant device and deliver a quality experience to the end user. IoT devices can be a bit challenging in scope but with knowledge and application can be obtained.

**Known Issues:**

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

One of the known issues is implementing the backend framework, which will require an invested effort from us within the group. Another aspect is pinpointing the exact design and mockup information properly.

**Risks:**

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

There is always a risk of data loss, the backend structure being taken down, interconnectivity issues and so on. Another risk that can be added to this is trying not to be an exact clone per say or even underdelivering with such a rich framework/API.

**ER Diagram:**

*Insert an image file of your ER database diagram.*

Diagram

Description automatically generated

**DDL Scripts:**

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

No DDL Scripts yet to include into the project. In the future the link to Git for the DDL scripts will be found here:

https://github.com/BrandenMGCU/CST-361-GroupMilestone

**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.*

Attached below is the intended flowchart for Milestone 2.

**Diagram

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**Sitemap Diagram:**

*Image file of your Sitemap diagram.*

N/A.

**User Interface Diagrams:**

*You should insert any wireframe drawings or white board concepts that were developed to support your application. If you have no supporting documentation, please explain the rationale for leaving this section as N/A.*

Attached below is a mockup website for the User Interface and digital voice assistant design so far. This will be further developed and refined within the coming weeks.

*Graphical user interface, application

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User Interface is still being determined at this time, N/A.

**Class Diagrams:**

*You should insert any class diagrams here. Your class diagrams should be drawn correctly with the three appropriate class compartments, + and – minus to indicate accessibility, and the data types for the state/properties as well as method arguments and return types. If you have no supporting documentation, please explain the rationale for leaving this section as N/A.*

Diagram

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**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.*

The intended third-party service API that is being considered at this time is the Amazon Web Service’s Alexa voice assistant API.

https://developer.amazon.com/en-US/docs/alexa/alexa-voice-service/register-a-product-with-avs.html

**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.*

So far, the initial security design aspect for authentication and authorization looks as if it would be handled by AWS when setting up the IoT device for the milestones.

**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.*

There is no Pseudo Code currently, this is the initial design and idea phase, N/A.

**Other Documentation:**

*You should insert any additional drawings, storyboards, white board pictures, project schedules, tasks lists, etc. that support your approach, design, and project. If you have no supporting documentation, please explain the rationale for leaving this section as N/A.*

Attached here is the Component UML Diagram for Milestone 2, I wanted to make sure it was included.

*Diagram

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