**Coding and Testing: Delivery Phase**

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CST-452: Senior Project 2

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**Summary**

In this release, the frontend form for preferences was created, and the configuration file creation was altered to incorporate the new additions. Minor changes were made to the preferences database structure to better accommodate the preferences structure. Additionally, the layout services code was altered to retrieve the currently active layout to better refresh the mirror surface when preferences have been updated. On user creation, a default preferences entry is also created in the database to allow for preferences functionality regardless of previous user input. Development of this functionality included the addition of a Preference View, handler, and additional methods in already existing classes. Test cases and documentation updates followed the creation of this functionality. Documentation for assistance in recreating the project finalized this release.

**Requirements**

This code release supports the following Features and User Stories:

|  |  |
| --- | --- |
| **Feature** | **User Story** |
| Instructional Documentation | As a customer, I would like to follow instructions with images to recreate the project. |
| Alarm / Preferences Integration | As a user, I would like to enter my preferences for modules to be reflected on the mirror layout. |
| Turn On / Off | As a user, I would like to turn the mirror on and off. |
| Create Preference (PAST) | As a user, I would like to add preferences for my layout options so the data can accurately reflect my situation. |
| View Preference (PAST) | As a user, I would like to view the current preferences for my system. |
| Update Preference (PAST) | As a user, I would like to update preferences for my layout options so the data can accurately reflect my situation. |
| Mirror Configuration (PAST) | As a user, I would like to control what is displayed on my mirror so I can customize my experience. |
| Dependable Materials (PAST) | As a user, I would like the mirror constructed using sturdy materials so it will last a long time. |
| Create Layout (PAST) | As a user, I would like to create a layout so I can save my design. |
| Update Layout (PAST) | As a user, I would like to update an existing layout so I can keep my designs up to date. |
| Delete Layout (PAST) | As a user, I would like to delete a layout to keep my designs current. |
| View Layouts (PAST) | As a user, I would like to view all saved layouts. |
| View Users (PAST) | As a user, I would like to view all users to see who has access to my mirror. |
| Update User (PAST) | As a user, I would like to update user information to better reflect my information. |
| Delete User (PAST) | As a user, I would like to delete a user to keep the users accounts relevant. |
| Login and Register (PAST) | As a user, I would like to create an account so I can access the management site. |
| Login and Register (PAST) | As a user, I would like to login to an existing account so I can access my saved information. |
| Login and Register (PAST) | As a user, I would like to logout of my account to secure my web pages. |
| Management Site Hosting (PAST) | As a user, I would like to visit a management site so I can customize my mirror display. |
| Management Site Hosting (PAST) | As a developer, I would like to host the site locally so I can completely customize the backend code. |
| Responsive Design (PAST) | As a developer, I would like the website design to fit three screen sizes so users can see all site information. |
| Mirror Display (PAST) | As a user, I would like to view all module options on the mirror surface. |

**Reports**

Requirements Delivered: 34%

Requirements Delivered to Date: 92%

Requirements Taken Out of Scope: 0%

Refer to the Following Burn-Down Chart (Sprint 4):

Please see the accompanying Burndown Chart excel document for more details.

**Test Cases**

Please see the accompanying test case excel document.

**Traceability Matrix**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Feature** | **Requirement ID** | **Design Spec ID** | **Code Modules** | **Test Case ID** |
| 4.1 | Preferences Configuration | FR – 33, 34, 36, 40-44, 50, 51 | Section 2  Section 3 | preferences.php  processPreferences.php  LayoutBusinessService.php (create configuration method) | TC – 43  TC – 44  TC - 45 |
| 4.2 | Physical Mirror | NFR – 3  FR – 7-9, 25 | Section 2  Section 4  Section 14 | N/A (Hardware) | TC – 47 |
| 4.3 | Instruction Documentation | FR – 10-15, 18, 58, 68 | Section 2 | N/A (Written) | N/A |
| 3.1 | Preferences CRUD | FR – 22-26, 39, 41-43, 51, 52 | Section 2  Section 3 | Preference.php  displayPreferences.php  updatePreferences.php  PreferenceBusinessService.php  PreferenceDataService.php | TC-43  TC-44  TC-45 |
| 3.2 | Select Layout | FR – 22-26, 29-33, 35-37, 39-43, 46-50, 62 | Section 3 | selectLayout.php  config.txt | TC-46 |
| 2.1 | Layout CRUD | FR – 59, 60, 61, 63, 64, 65 | Section 2  Section 3 | Layout.php  deleteLayout.php  displayAllLayouts.php  LayoutBusinessService.php  LayoutDataService.php  newLayout.php  processNewLayout.php  updateLayout.php | TC-37  TC-38  TC-39  TC-40 |
| 2.2 | User CRUD | FR – 69 | Section 2  Section 3 | deleteUser.php  displayAllUsers.php  updateUser.php  UserBusinessService.php  UserDataService.php | TC-41  TC-42 |
| 1.5 | Responsive | FR – 54  FR – 55  FR – 56 | Section 2 | \_navbar.php  header.php  Autoloader.php | TC-12-23 |

**Screencast**

LOOM Video Demonstration:

<https://www.loom.com/share/606df57876264c0dbc7aaff9fd21f7c8>

GitHub Link:

<https://github.com/KMorris63/SeniorProject1>