**Test Plan**

Tester: Noel Jules Cabahug Date designed: Nov 29, 2024, 12:40 AM

Commit ID: 1ac00718437b49b170e173e3fb3f8dfb190f17f4 Date conducted:

Test Type & Test Type ID: White Box - 03

**Requirement Addressed**

Verification of the background resource initialization, asynchronous loading, and selection mechanisms.

**Objective**

To ensure that the application correctly initializes, manages, and allows seamless user interaction with background resources.

**Test cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Verify the initialization of self.bg\_paths and self.selected\_bg during app startup. | \_\_init\_\_() | * self.bg\_paths = […] * self.selected\_bg = 0 | * self.bg\_paths contains all expected file paths. * self.selected\_bg initializes to 0. |  |  |
| Ensure that the init\_bg\_images() method preloads all background image and video resources asynchronously. | init\_bg\_images() | Path of the background resources | All resources are preloaded without raising errors. |  |  |
| Verify that the selected background in the setup screen is correctly applied to the dashboard screen. | * manage\_background(action) * self.root.get\_screen('setup').ids.setup\_bg.source | resources/bg\_x.jpg | Background displayed in the dashboard screen matches the background selected in the setup screen. |  |  |
| Verify that the setup\_bg FitImage component dynamically updates the size of a background when selected. | FitImage.source | resources/bg\_x.jpg | The FitImage widget automatically adjusts the background to fit its container and correctly updates to display the selected background. |  |  |
| Verify that the video file (app.app\_bg) plays automatically on app startup. | Video.state | state: play | The video starts playing in a loop when the app starts. |  |  |