**Test Plan**

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Test Type & Test Type ID: White Box - 03

**Requirement Addressed**

Verification of the initialization, update, and playback functionality for background image and video resources in the application, including dynamic resizing.

**Objective**

To ensure that the application efficiently handles the loading, updating, and playback of background resources while maintaining smooth user experience and dynamic responsiveness across screens.

**Test cases**

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| --- | --- | --- | --- | --- | --- |
| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 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. | All resources are preloaded without raising errors. | Pass |
| 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. | Background displayed in the dashboard screen matches the background selected in the setup screen. | Pass |
| 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. | The FitImage widget automatically adjusts the background to fit its container and correctly updates to display the selected background. | Pass |
| 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. | The video starts playing in a loop when the app starts. | Pass |
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