**Test Plan**

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Commit ID: 1ac00718437b49b170e173e3fb3f8dfb190f17f4 Date conducted:

Test Type & Test Type ID: White Box - 02

**Requirement Addressed**

Verification of the transition, navigation, and opacity adjustment implementation through cross referencing the code logic in the main.py file and the kv files of the following screens: setup and dashboard.

**Objective**

To evaluate whether the transitions, navigation and opacity adjustments logic is correct and seamless.

**Test cases**

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| --- | --- | --- | --- | --- | --- |
| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Verify that the transition from the ‘dashboard’ to the ‘setup’ and vice versa occurs with the expected Fade and Slide effects. | * app.root.transition * app.root.current | Trigger the on\_press and on\_release events of the "Select Setup" button. | * The FadeTransition effect is applied with a duration of 0.5 seconds during the button press. * The SlideTransition effect is applied with a duration of 0.25 seconds during the screen switch to the dashboard. |  |  |
| Validate the functionality of the "Previous" button for navigating through available backgrounds. | app.manage\_background(‘prev’) | Call app.manage\_background('prev') through the "Previous" button. | * The setup\_bg component updates to display the previous background in the list. * Navigation loops to the last background if the current background is the first in the list. |  |  |
| Validate the functionality of the "Next" button for navigating through available backgrounds. | app.manage\_background(‘next’) | Call app.manage\_background('next') through the "Next" button. | * The setup\_bg component updates to display the next background in the list. * Navigation loops to the first background if the current background is the last in the list. |  |  |
| Verify the opacity and behavior of the timer label displayed in the setup screen. | MDLabel.opacity | Inspect the opacity value of the timer label. | The timer label has an opacity of 0.4, making it semi-transparent and does not interfere with background navigation or transitions. |  |  |
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