**Test Plan**

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Test Type & Test Type ID: White Box - 02

**Requirement Addressed**

Verification of the setup screen’s component implementations in setup\_screen.kv and their interaction with the main code.

**Objective**

To evaluate whether the components, 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 Previous and Next navigation buttons appear at the correct positions with the correct opacity in the setup screen. | MDIconButton | Triggered when transitioning to 'setup' from 'dashboard' | Both buttons appear after transition from 'dashboard' to 'setup' | Both buttons appear after a transition from ‘dashboard’ to ‘setup’ | Pass |
| 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. | The setup\_bg component updates to display the previous background in the list and navigation loops to the last background if the current background is first in the list. | Pass |
| 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. | The setup\_bg component updates to display the next background in the list and navigation loops to the first background if the current background is last in the list. | Pass |
| Verify the opacity and behavior of the timer label displayed in the setup screen. | MDLabel.opacity | 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. | The timer label changes opacity. | Pass |
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