**Test Plan**

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Test Type & Test Type ID: White Box - 04

**Requirement Addressed**

Assess the updated code structure, UI components, and user experience enhancements, including loading indicators and screen transitions.

**Objective**

To ensure that the application provides a smooth, intuitive, and visually appealing user experience by correctly implementing updated UI components, loading indicators, and screen transitions.

**Test cases**

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| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Ensure that the initialization of UI components like MDSmartTile and MDSwiperItem is correctly handled in the application. | * \_\_init\_\_() * load\_kv\_files() | self | * All UI components are initialized without errors. * Components are displayed correctly in the application. | All UI components were successfully initialized without any errors and displayed correctly within the application interface. | Pass |
| Verify that the profile menu and settings dialog are initialized and function correctly. | * init\_profile\_menu() * init\_settings\_dialog() | self | * Profile menu and settings dialog are initialized without errors. * Menu items and dialog components are displayed and functioned correctly. | The profile menu and settings dialog were properly initialized and loaded without errors, with all menu items and dialog components displaying and functioning according to specifications. | Pass |
| Ensure that the background management functionality is updated and works correctly. | manage\_background(action) | * ‘next’ ‘prev’ | * Background changes according to the action taken. * UI updates to reflect the selected background. | The background successfully changed in response and the UI accurately updated to reflect the newly selected background. | Pass |
| Ensure that the loading indicator is activated during statistics updates. | MDCircularProgressIndicator in dashboard\_screen.kv. | Trigger data update operations. | * Loading indicator is visible and active during the operation. * Indicator deactivates once the operation is complete. | The loading indicator was clearly visible and actively displayed progress, then appropriately deactivated once the operations were completed. | Pass |
| Verify that screen transitions are smooth and visually appealing. | Transition settings in dashboard\_screen.kv. | Trigger screen transitions | * Transitions occur smoothly without lag or visual artifacts. * Transition effects are consistent across different screens. | All screen transitions executed smoothly without any noticeable lag or visual artifacts, maintaining consistent transition effects across all different screens in the application. | Pass |