**Test Plan**

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Test Type & Test Type ID: White Box - 01

**Requirement Addressed**

Initialization, integration, and navigation functionality for the Statistics Screen within the application.

**Objective**

To ensure the Statistics Screen is properly initialized, integrated with the ScreenManager, and navigable through the dashboard button.

**Test cases**

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| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Verify that the statistics\_screen.kv file is successfully loaded during app initialization. | Builder.load\_file() | Path to statistics\_screen.kv | The statistics\_screen.kv file loaded without errors and the screen’s UI components are rendered properly. | The kv file loads successfully without errors and the screen’s UI components are rendered properly. | Pass |
| Verify that the statistics button in the dashboard navigates to the Statistics Screen. | on\_press | Pressing the statistics button | The ScreenManager's current attribute is set to ‘statistics’ using a fade animation. | When pressing the button, there is a quick fade animation transitioning to the statistics button. | Pass |
| Ensure the video background on the statistics screen plays continuously. | Video component (statistics\_bg) | ‘play’ | Video plays in a loop without interruption | The video plays in a loop without errors. | Pass |
| Verify the functionality of the MDSwiper for displaying charts. | MDSwiper component (charts) | Swipe left or right | Charts transition smoothly with no errors on the charts. | The charts transition smoothly with no errors on the charts. | Pass |
| Test the interaction of the MDIconButton for navigating between charts. | MDIconButton (previous and next setup button) | Press previous or next button | Navigation occurs correctly, allowing the user to move the chart items within the swiper. | Navigation occurs correctly, allowing the user to move the chart items within the swiper. | Pass |
| Verify the display of the placeholder chart images. | FitImage components (chart\_1, chart\_2) | Path to the image resource | The placeholder chart images displays and fits to the container. | The placeholder chart images displays and fits to the container. | Pass |