**Test Plan**

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Test Type & Test Type ID: White Box - 02

**Requirement Addressed**

Verification of screen transition implementation through cross referencing the code logic in the main.py file and the kv files of the following screens: startup, login, and dashboard.

**Objective**

To evaluate whether the navigation code logic is correct and sufficiently manages to make the transitions seamless without little to no delay.

**Test cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Navigation from the filler screen to the startup screen. | 'current' attribute of the root (ScreenManager) widget | Replace ‘filler\_screen’ with ‘startup’ | Transition occurs in the correct sequence with a smooth fade effect lasting 2 seconds. |  |  |
| Transition from the startup screen to the login screen with a delay triggered by the Clock module. | * 'current' attribute of the root (ScreenManager) widget * Clock.schedule\_once | Replace ‘startup’ with ‘login’ | Transition occurs in the correct sequence with a fade effect lasting 0.3 seconds, triggered after a 4-second delay. |  |  |
| Transition to the dashboard screen after a successful login validation. | 'current' attribute of the root (ScreenManager) widget | Replace ‘login’ with ‘dashboard’ | Instant transition to dashboard screen after successful login. |  |  |
| Transition back to the login screen after a successful signup | 'current' attribute of the root (ScreenManager) widget | Replace 'login' with 'login' (repeated transition) | Immediate transition back to login screen after signup. |  |  |
| Ensure that the Clock module correctly delays screen transitions | Clock.schedule\_once | * 3 second delay * 4 second delay | Screen transitions occur precisely at the scheduled intervals with no timing errors or deviations. |  |  |