**Test Plan**

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Commit ID: 49d180aee3ce3598aaeb40cc138574ad9a2efcca Date conducted: Nov 26, 2024, 6:19 PM

Test Type & Test Type ID: White Box - 01

**Requirement Addressed**

Assess if the code logic and structure are correct and sufficient for loading and managing future UI components through the kv file.

**Objective**

To ensure that the ForestApp class properly loads kv files, initializing them without errors, and sets up the app for future UI component integration.

**Test cases**

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| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| The code logic for loading the kv files correctly utilizes the load\_file() method from the Builder class by passing the correct file path. | Builder.load\_file(<file path>) | A file path as a String | A method call without an exception | All kv files were loaded successfully without exceptions. | Pass |
| Optimized overall loading mechanism by loading the screens first through method encapsulation, then returning a screen manager as their root widget | build() | method encapsulating the loading of screens, returning a usage of Build.load\_file() for the screen manager | Returns a blank screen manager within the initialized window | The method returned a blank scree manager without errors, confirming the screens were correctly loaded. | Pass |
| Appropriate code logic and structure for loading the kv files, effectively encapsulated within a single method as a loading mechanism | load\_kv\_files() | A set of Builder.load\_file() calls | Each method call does not throw an error | The method successfully called all kv files without errors, confirming proper encapsulation. | Pass |
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