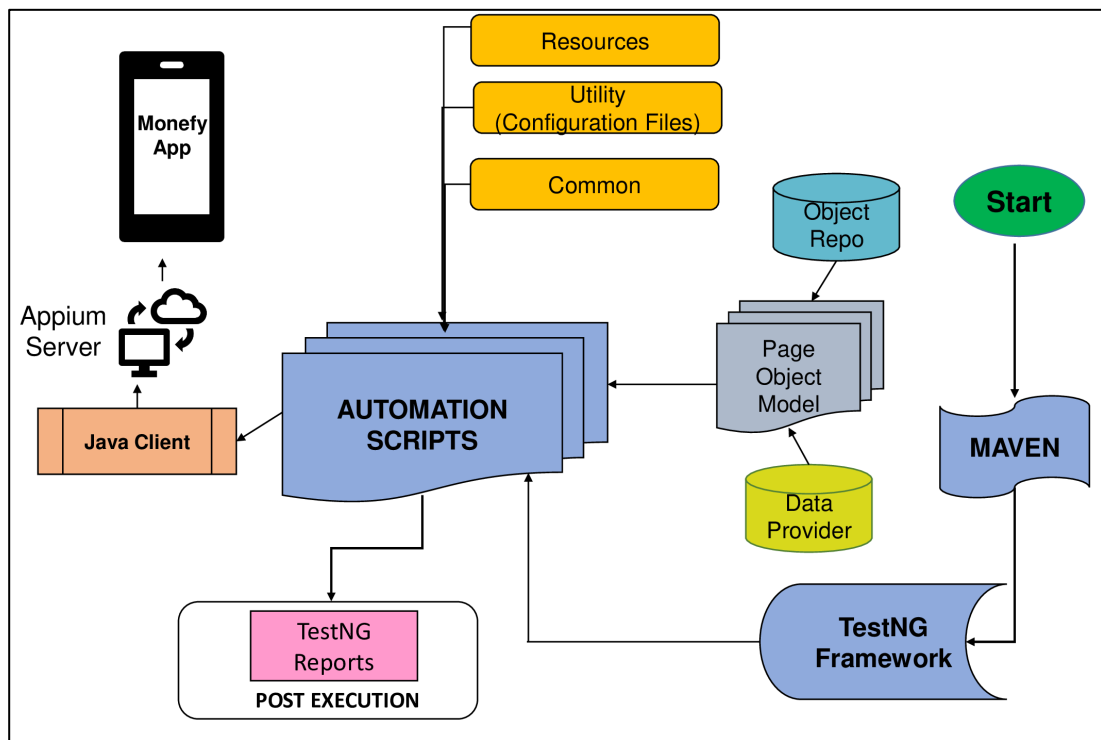# AUTOMATION SOLUTION FOR MONEFY MOBILE APP
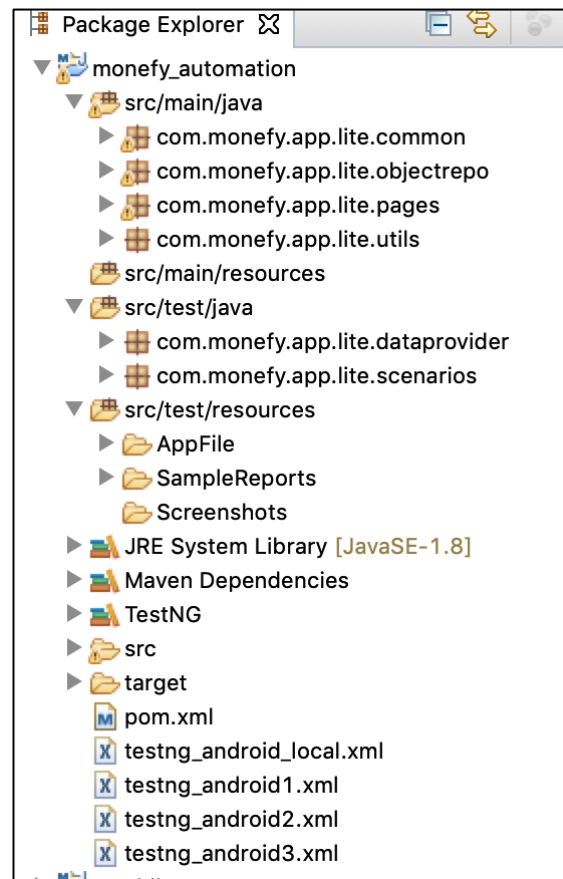
1. ARCHITECTURE

The automation solution for Monefy Mobile App is designed using the above architecture and developer using combination of open-source tools, methodologies, frameworks and best practices that enables agile teams to build, manage and deploy high quality software faster, with confidence.

Why this Framework

- Framework is built upon tools like Selenium, Appium, TestNG & Maven.

- Can Automate Tests across Web & Mobile Applications.

- Light weight with simple and easy to use GUI.

- Supports Integration with Test Management, CI/CD and Version Control tools.

- Supports Parallel execution of Test Scripts.

- Enables Test Scripts to be executed in multiple browsers and real device & emulators/simulators

- Pre-loaded with numerous functionalities derived from all the selenium and Appium methods.

- Test Data can be provided via Excel, properties file and JSON.

2. AUTOMATION SOLUTION

We have structured this framework with the packages as shown below for the test automation of Monefy Android Mobile Application.

1. **Main Java packages:** It consists of package utilities for data-driven, test configuration, object repository and reporting supporting for enhancing test maintenance and reducing code duplication.

2. **Test Java packages:** It consists of test scripts & test data automating the business flows of MoneyFy Android Mobile Application.

3. **Test Resources:** It consists of App file, Reports and Failure Screenshots.

3. WORKFLOW EXECUTION

Using this framework, the following workflows is automated on Monefy Android Mobile Application.

- Functionality of Expense Module

```xml
<class name="com.monefy.app.lite.scenarios.ExpenseScenarioTest">
    <methods>
        <include name="verifyHomeScreen" />
        <include name="verifyExpenseScreen" />
        <include name="verifyExpenseScreen_RepeatButtonFunctionality" />
        <include name="verifyExpenseScreen_DatePickerFunctionality" />
        <include name="verifyExpenseScreen_ChangePaymentMethod" />
        <include name="verifyExpenseScreen_AmountInputFieldFunctionality" />
        <include name="verifyExpenseScreen_UndoAddedExpense" />
    </methods>
</class>
```

- Functionality of Income Module.

```xml
<class name="com.monefy.app.lite.scenarios.IncomeScenarioTest">
    <methods>
        <include name="verifyIncomeScreen" />
        <include name="verifyIncomeScreen_RepeatButtonFunctionality" />
        <include name="verifyIncomeScreen_DatePickerFunctionality" />
        <include name="verifyIncomeScreen_ChangePaymentMethod" />
        <include name="verifyIncomeScreen_AmountInputFieldFunctionality" />
        <include name="verifyIncomeScreen_UndoAddedIncome" />
    </methods>
</class>
```

- Integration Scenario of Income & Expense Module.

```xml
<class name="com.monefy.app.lite.scenarios.IntegrationScenarioTest">
    <methods>
        <include name="verifyHomeScreen" />
        <include name="verifyIncomeScreen_AddingIncome" />
        <include name="verifyIncomeScreen_AddingExpense" />
    </methods>
</class>
```