Product Name: **TestApplication**

Build version: 1.0.0

TEST FLOW

Document Version: 1.0

Author: Md. Samsul Kabir
Created date: 17/04/2019

1.0 Objective

This document explains briefly about testing approaches and strategies. It includes scope, test approach, process, development, execution, analysis and deliverables.

2.0 Scope

2.1 Features to be Tested

- Login
- Data form

2.2 Features Not to Be Tested

- Tree Accordion
- Grid view / Search
- Grid view / Sort
- Grid view / Hide and Show

2.3 Item Pass/Fail Criteria

The success criteria of tests depends on three situations while executing the test cases – normal, suspension, resumption.

- Suspension Criteria: Any situation which impedes the ability to continue testing or value in performing testing lead to suspend testing activities.
- Resumption Criteria: When the problem that caused the suspension had been resolved, testing activities can be resumed.
- Approval Criteria: An item will be considered as ‘Pass’ if it meets the ‘Expected Outcome’ defined in the corresponding test case.

3.0 Test approach

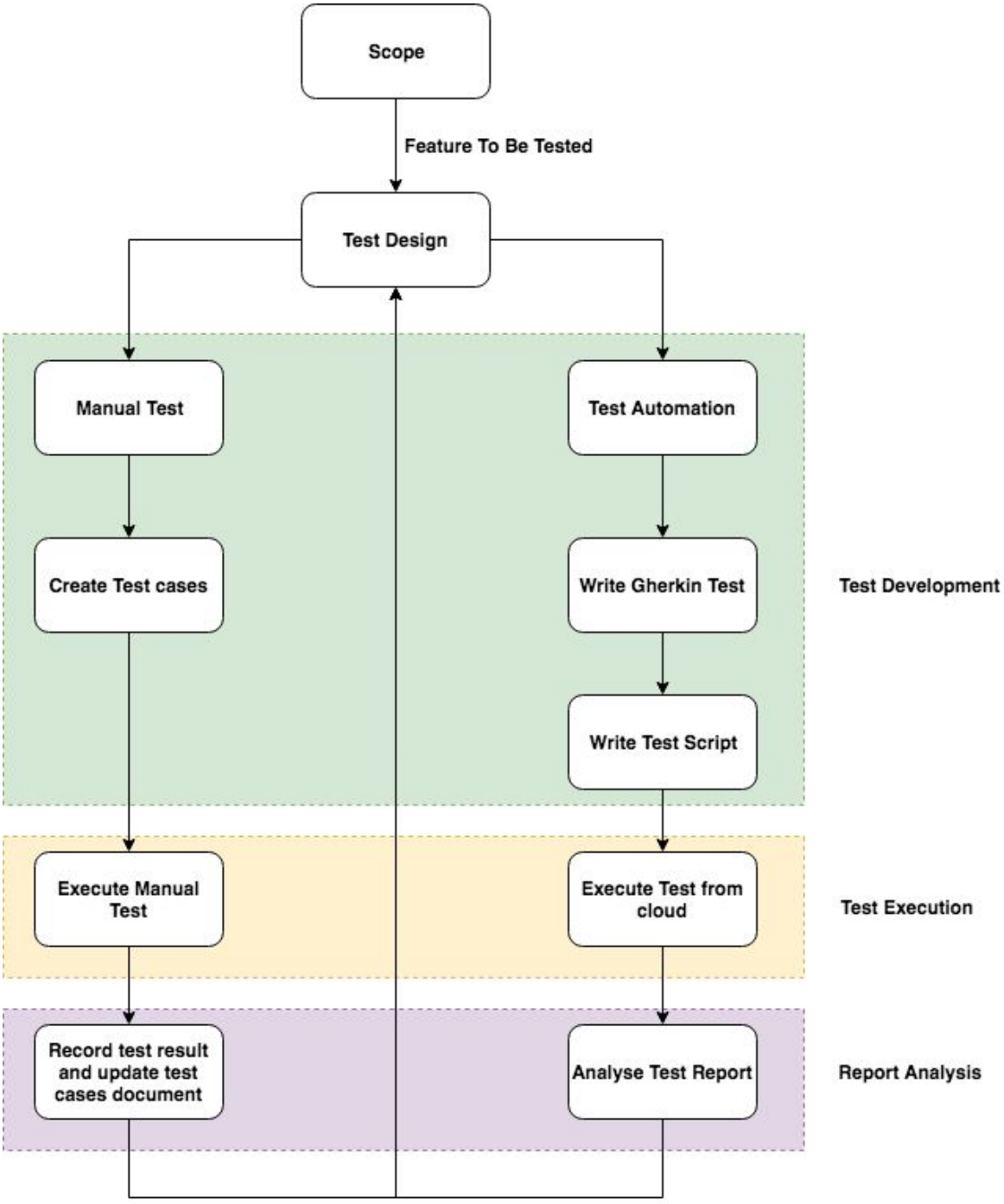
Testing method considered for the product will as following:

- Manual testing – Tester will follow test cases and execute them step by step and update result.
- Test automation – Automation script will perform regression triggered by scheduler or manually.

4.0 Test Environment

Platform: Mac OS
Browser: Chrome, Firefox, Headless chrome

5.0 Testing process



5.1 Test Design

During the test design phase, it is basically planned which part of the application will be tested. As per scope, it is already defined in the feature to be tested. They are as following:

- Login
- Data form

5.2 Test Development

- Create test cases
- Create automation scripts

5.2.1 Create Test Cases

Test case document will contain each feature that we decided in the test design phase. For each feature there will be a number of scenario. Each scenario will have pre-condition and detailed steps to execute. Expected behavior will explain what should be the outcome of each feature. Since we will use this documents to record the result of manual tests, there will be a column for actual results including a status column to declare the feature as pass or fail. Test cases are written in an excel document.

5.2.2 Create Automation Scripts

Once tests cases are completed, we can write gherkin tests. Gherkin tests are also a type of manual test. Gherkin tests are built with scenarios. These tests use Behavior Driven Development (BDD) with use case scenarios based on how a user may use the application. Gherkin tests use natural language syntax. Later Gherkin test can be used for automation scripts, can executed line-by-line.

Since we are using gherkin tests for automation testing, cucumber framework with Java will be used for automation purposes.

5.3 Test Execution

Test execution happens when you run the tests.

5.3.1 Execute Manual test

Open test cases written in excel document. Execute each steps inside each scenario. Make notes in each step or scenario and update status to validation steps.

5.3.2 Execute Automation Scripts from cloud

An AWS EC2 machine with linux has been used to deploy and execute the script. Instruction to execute automation script would be provided in the README.md document automation repository (automation script will be uploaded in gitlab repository provided)

5.4 Analysis Result

Result of test execution of manual test has been will be test cases documents which is manual. On the other hand, automation script will generate report automatically once execution is done. Instruction to find automated generated test report will be mentioned repository documents.

6.0 Deliverables

- Test Plan (This document itself)
- Test cases
- Automation Script