**UI Test Automation**

**Technical Documentation**

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# System Setup:

## Java Set up

### Java (JRE & JDK) installation

#### If Java is already installed, then continue to step (ii)

#### If Java is not installed, please raise a request with IT team and the process to install Java as specified below



### Set Java User variable path.

#### Search “edit environment variables for your account” in search bar

#### Below Environment Variables pop up will be displayed

Java Setup Screenshot Environment Variables

#### Double click on the path from User variables as shown above. Below pop up should open.

Screenshot of Env variable setup

#### Click on “New” and enter the variable as “C:\Program Files\Java\jdk1.8.0\_144\bin”. Once done click on OK. It should show new environment variable created as shown below:

Screenshot

#### Validate Java installation with command “java –version” on command prompt, should receive the following output –

Screenshot cmd output

## Eclipse Set Up

* + 1. IDE: Eclipse Mars 2 - change InteliJ IDEA
       1. Install TestNG plugin
       2. External maven installation is not required as Mars eclipse has inbuilt maven

# Framework Setup:- Need to add clone projects steps

## How to Import “TAF Name” framework in eclipse

How to import “TAF NAME” framework in eclipse

* + - 1. Go to File
      2. Click on import
      3. Import Pop up will be displayed as below
      4. Select existing Maven Project
      5. Click “Next”
      6. Browse “TAF Name” framework root directory
      7. Click on Finish.

To set up its project build space it will take some time and import will be successful. Framework will be ready for use.

# TAF NAME UI Test Automation Framework –

## eMedicareSyncTAF Framework Modules

Framework is developed in page object model using TDD with java and TestNG. As per the Page Object Model, we have maintained a class for every web page. We have separate packages for Pages and Tests. All the web pages relate classes come under Pages package and all the tests related classes come under Tests package.

* + - * 1. src/main/java – This folder has 3 major packages

com. generic – This package has Wrapper Functions class file which includes reusable utility functions.

com. page Factory - Each web page has a separate class, and that class holds the functionality and members of that web page.

com. popup Factory – Each Pop-up page has a separate class, and that class holds the functionality and members of that web page.

Screenshots

* + - * 1. src/main/resources – All external jars file and resources are present in main/resources folder.

Screenshots

* + - * 1. src/test/java – All the tests related classes come under Tests package.

In this folder we have two major packages as below

com. flows – We have separate Flow class file page wise where we have combined business logic as per the business flow.

com. scripts. <Module Name> - Inside scripts package we have places test files for execution.

Test class file includes,

Before Class – Web environment will be initialised before execution of test methods present in the test class file.

After Class – Web environment will be closed after all the test methods of a current class have been invoked.

Before Method – It will be invoked before the execution of each test method where the test method is nothing but a test case. Video recording will start before each test method

After Method – It will be invoked after the execution of each test method. Video recording will be saved after each test method execution.

Test Method – It is nothing but the test case. User can provide priority, group the test cases in test method. With the help of run mode, user can set the flag to Y/N to execute/skip the test case respectively.

Screenshots

* + - * 1. src/test/resources – This folder includes external resources required the test execution

Screenshots

downloads – During execution files will get downloaded in this folder from the application and will be used for validation.

Screenshots

TCIDExecutionVideos - Video recordings of the test case execution will be saved in this folder.

Screenshots

test Data

excel – All the test data will be kept in excel sheet. We use Apache POI to handle excel sheets.

TestData Screen shots

text Files – Singleton design pattern is also used in the framework to store and pass the test data for the test cases.

Screenshots

test Suites – All test class files related Smoke suite testing are added in test suite. (Smoke\_Test\_Suite.xml)

SmokeSuite Screenshots

## How to execute “eMedicareSyncTAF” framework in batch mode execution.

1. Go to POM.xml file
2. Change/Add suite name in POM.xml file
   1. Change the Suite Name and Suite XML Path as shown below

Screenshots

* 1. Right click on xml file and copy the name of the file

Screen shots

1. Update the copied name in the Suite Name and SuiteXML Path and Save
2. Right click on project
3. Go to RunAs and click “Maven Build”

Screenshots

1. Enter goals “clean test site”

Screenshots

1. Click “Apply and Run”.

Then the execution will start and once its completed report will be generated in target folder

## How to check test execution report

Once the execution is completed, report will be available in target folder

Report SCreenshots