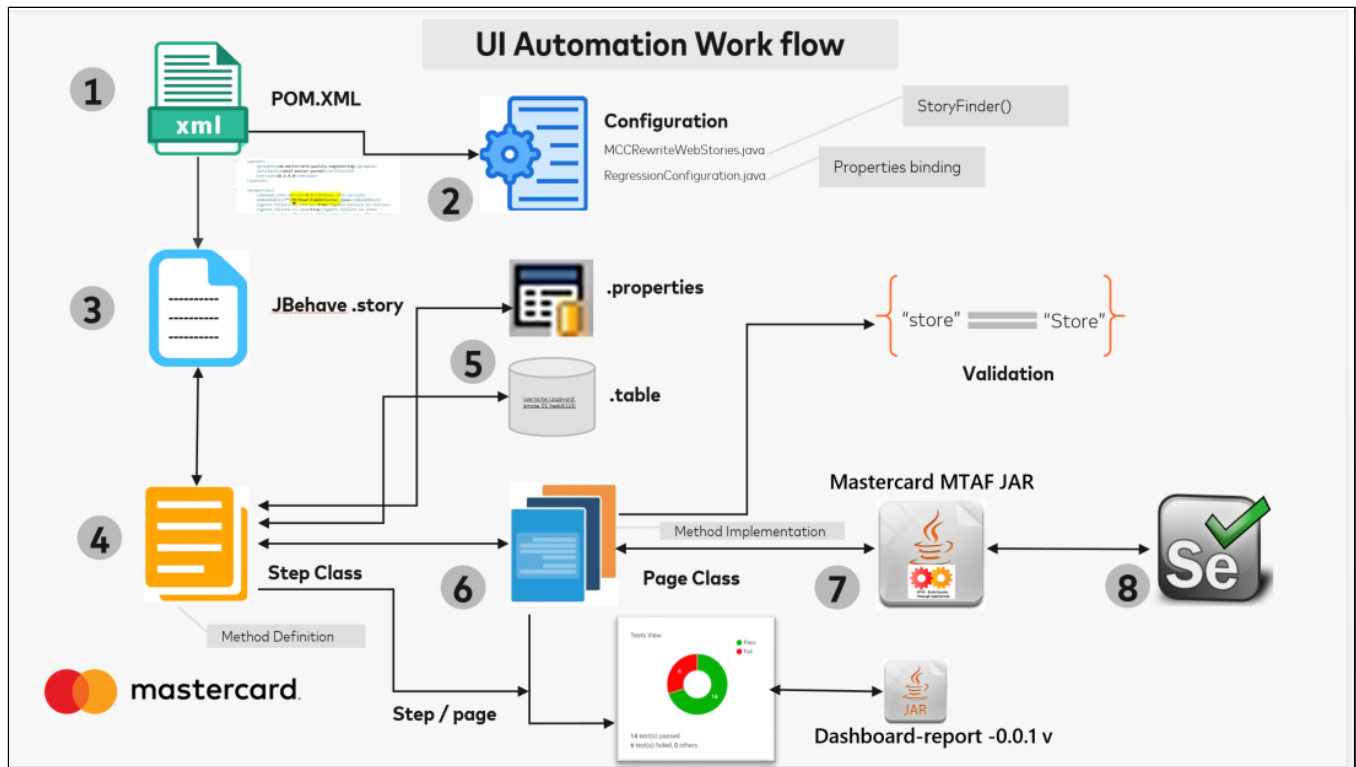


# Mastercard Connect Automation Project setup details MTAF version 17.x.x.x

The Mastercard Test Automation Framework is adding more libraries and codes to facilitate more features in terms of TestNG, Junit, Google Page Factory and many more. MTAF is open source and open tools based and is supporting 3<sup>rd</sup> party vendors Browser Stack, AppliTools Eyes, and Perfecto.

The new MTAF continuing the same tools what it had earlier supporting like, BDD, JBehave, CA's Rally, API Web services and Selenium Grid.



For more details Please visit API automation [Work Flow](#)

## Prerequisite:

### Set up Configuration Details:-

IDE: Eclipse or Spring Test Suite (STS)

JDK: Install JDK 1.8

Maven: Download Apache-Maven -3.3.9

If maven not installed, Copy Apache-Maven -3.3.9 at desired place (\\corp.mastercard.org\\stlproj\\DataSafe\\TCOE\\Automation\\Shared Configuration Data\\Apache-Maven -3.3.9) and put at local system

Environment Variable:

classpath : C:\\Program Files\\Java\\jdk1.8.0\_131\\lib

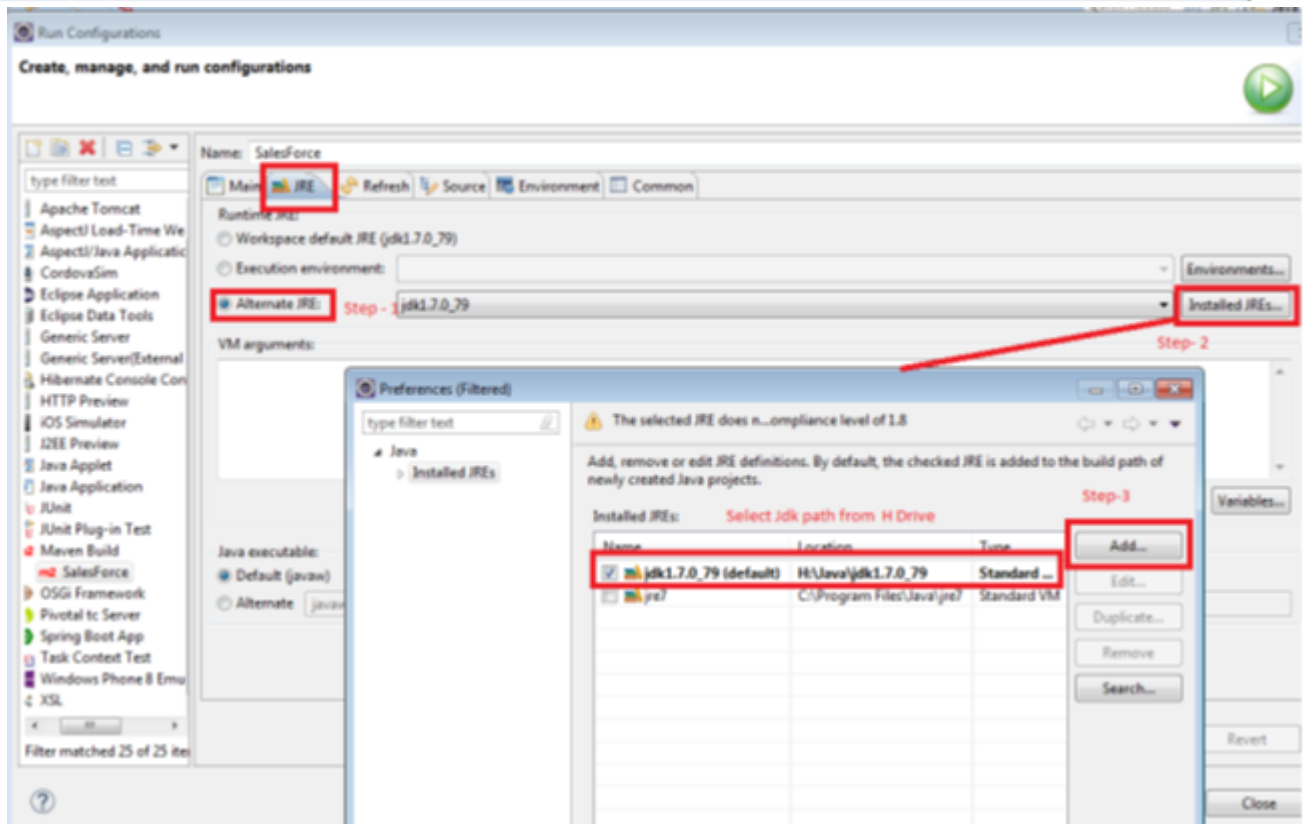
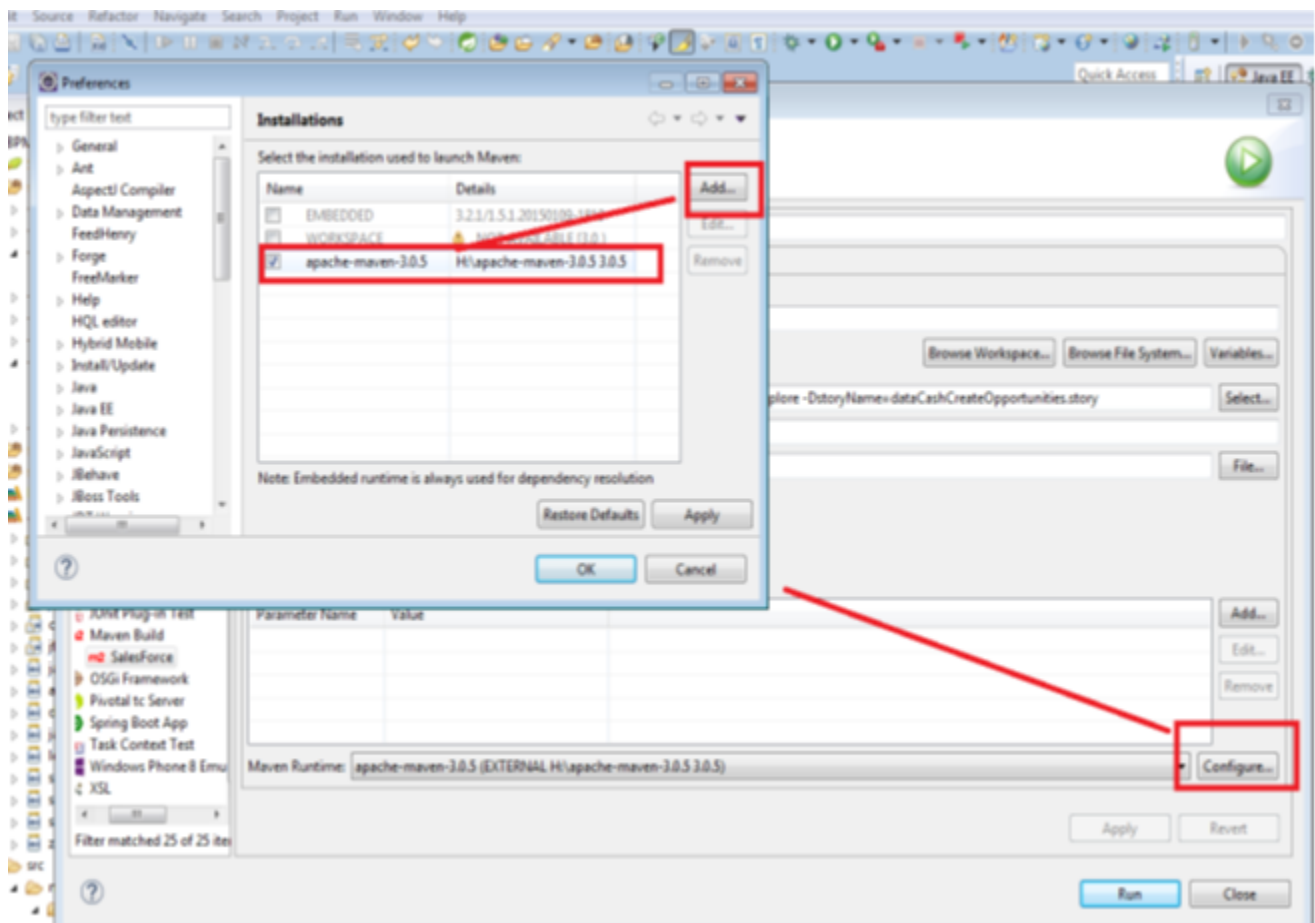
Java\_Home: C:\\Program Files\\Java\\jdk1.8.0\_131

M2\_HOME : C:\\apache-maven-3.3.9

After successfully installation of eclipse or STS, **Clone** the sample code from the below [Stash](#)

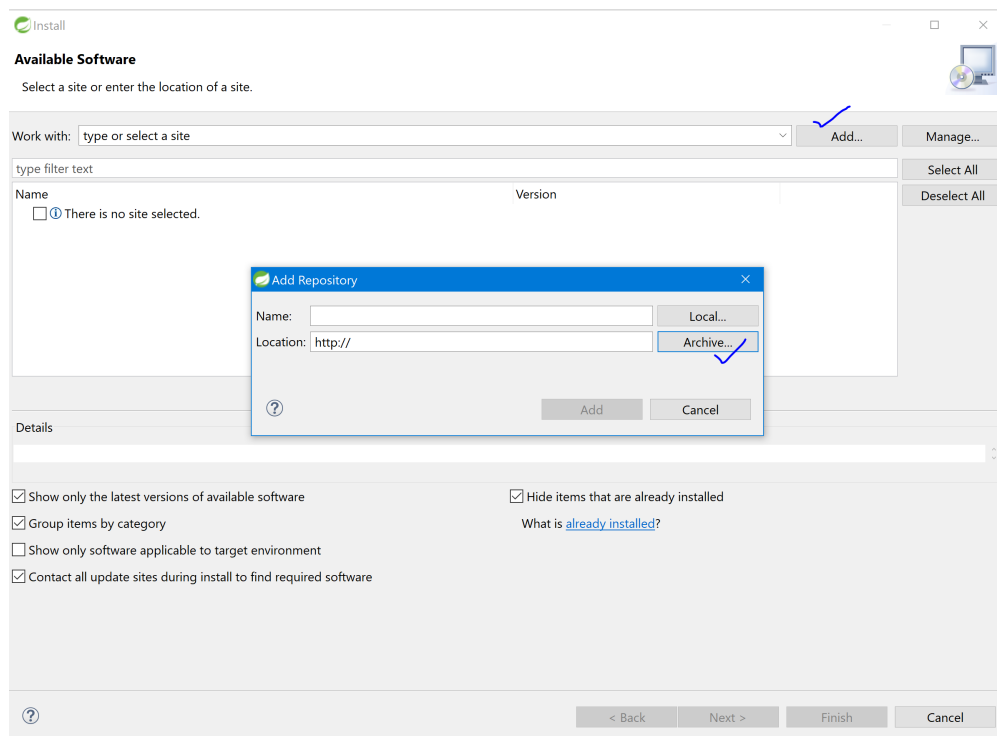
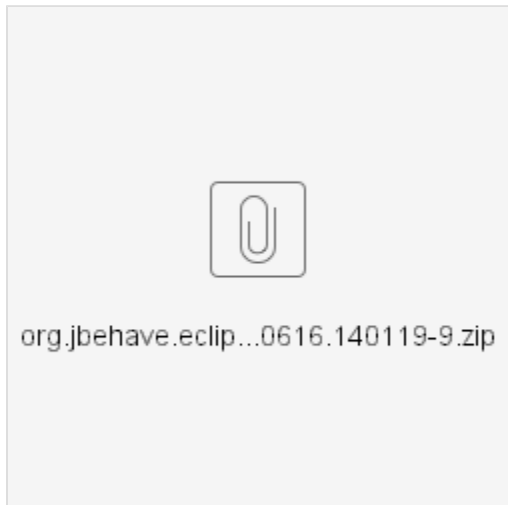
[https://fusion.mastercard.int/stash/projects/MRA/repos/newmtaf\\_mccrewrite\\_automation/browse](https://fusion.mastercard.int/stash/projects/MRA/repos/newmtaf_mccrewrite_automation/browse)

Import the automation script code in local eclipse or STS tool then configure the JDK 1.8 and maven in the tool.



\* Make sure that eclipse/STS has been updated after installation.

Link: <http://jbehave.org/reference/eclipse/updates/> Or Add zip folder as shown below



## Available Software

Select a site or enter the location of a site.



Work with:

type filter text

Name	Version
<input type="checkbox"/> There is no site selected.	

?

Name:

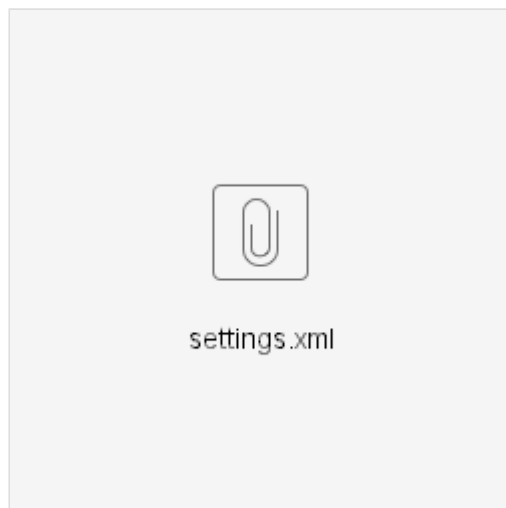
Location:

?

Details

☒ Show only the latest versions of available software ☒ Hide items that are already installed  
☒ Group items by category What is [already installed?](#)  
☐ Show only software applicable to target environment  
☒ Contact all update sites during install to find required software

Once the project has been configured update below setting.xml and POM



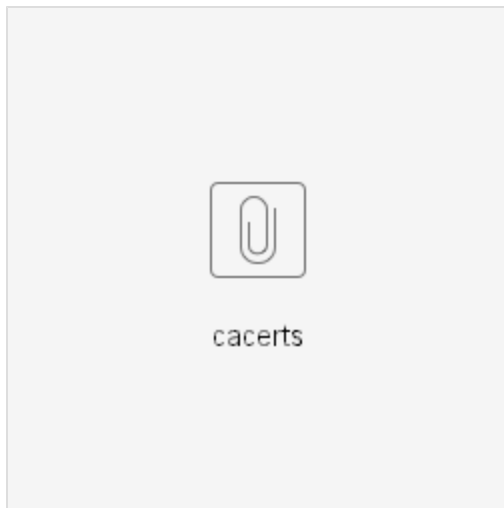
Get maven update to update current version of dependencies:

- Right click on Project - > Click on **Maven** -> Click **Update Project** Select **Force Update of snapshots** check box click ok
- Clean and Build Project

**Important** : If in local system maven will not update please follow below steps.

Update "**Cacerts**" file given below path locations. To update file you require Admin login ( take your earlier backup for safe side )

- a. C:\Program Files\Java\jre1.8.0\_191\lib\security
  - b. C:\Program Files\Java\jdk1.8.0\_172\jre\lib\security
- If below file wont work check with Any team member MCC-QE team

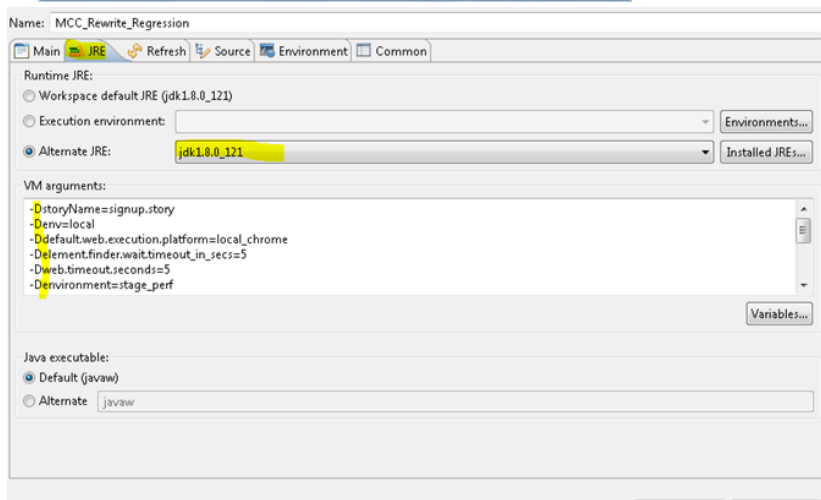
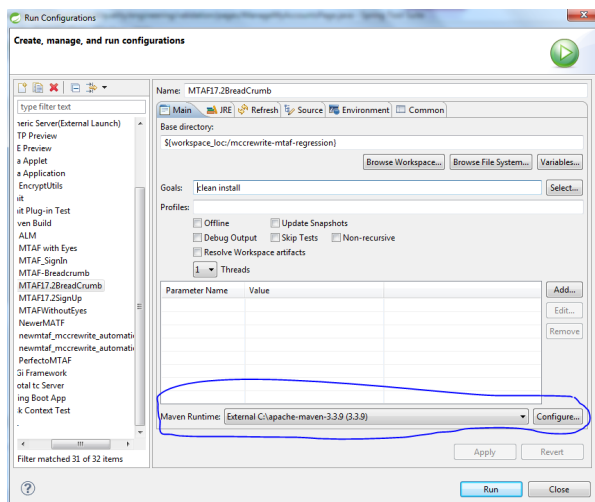


Open Git bash and run below command

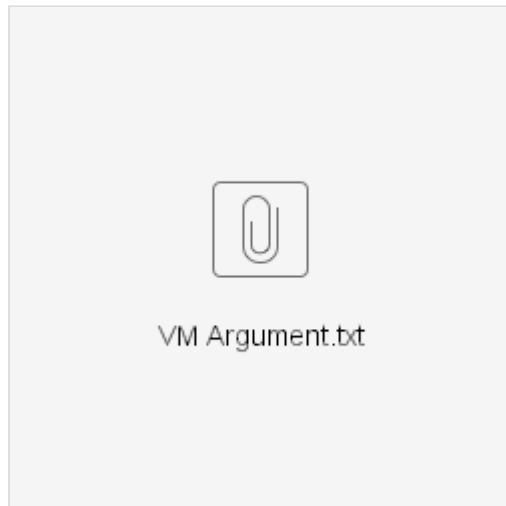
```
$ git -c http.sslVerify=false pull
```

```
git config --global http.sslVerify false
```

To execute the automation script, provide the below **VM arguments** in **Run Configuration**:



Set Goal in VM argument section :



**Dplatform** = Specify here browser in which browser u wants to run. One story will execute

**DstoryName** =Specify your story file name. Specific to story you wants to run.

**DmetaFilters** =Specify Meta filter for all stories at a time execution

Note: If using Spring Test Suite tool for developing the automation script then **-DstoryName=signup.story** did not work, so use **-DmetaFilter=+signup**

#### **MCC Rewrite setup with new story:**

Below Note need to follow while check-in the story file

1. **Meta filter must specify as per requirement and execute in bamboo or Jenkins**

	Meta Filter
In-sprint	@inSprint/@Regression
Component Name	@Component
Story Name	@StoryName
Test case ID	@TC258593
Defect Id	@ D258593
Sprint Name	@warrior 18.2.3
Story ID	@storyID
Owner	<a href="#">Unknown User (e062443)</a>
Team	@Warrior

2. **Meta filter must specify for rally integration**

**Meta:**

@TestId TC258593

3. **Remove below meta filter from story before check-in**

@webPlatform local\_ie

4. **Provide data table if required**

: TestData/signupin\_data.table

It will work multiple iteration of test data for one environment only

## Step Class: SignUpSteps.java

```
//Region- Sign up-Tab One
/**
 * @When("provided Your Account details from table with username password vpassword question1 answer1 question2 answer2: $dataTable")
 */
public void inputDetailsForRegistrationForTab1ForSmoke(ExampleTable dataTable)
{
    boolean flag = true;
    getRowData(dataTable);
    // now get all columns of row
    Map<String,String> parametersMap = commonUtils.extractParameters
    (
        rowOnExampleTable,
        exampleTable,
        "username",
        "password",
        "vpassword",
        "question1",
        "answer1",
        "question2",
        "answer2");
    try{
        signUpPage.enterTabOneDetails(
            parametersMap.get("username"),
            parametersMap.get("password"),
            parametersMap.get("vpassword"),
            parametersMap.get("question1"),
            parametersMap.get("answer1"),
            parametersMap.get("question2"),
            parametersMap.get("answer2"));
        signUpPage.clicksNext();
    }catch(Exception e){
        logger.error("Error in signup Tab one details section" + e);
        flag = false;
    }
    assertTrue(flag);
}
//EndRegion
```

## How to Specify Region in Java Eclipse

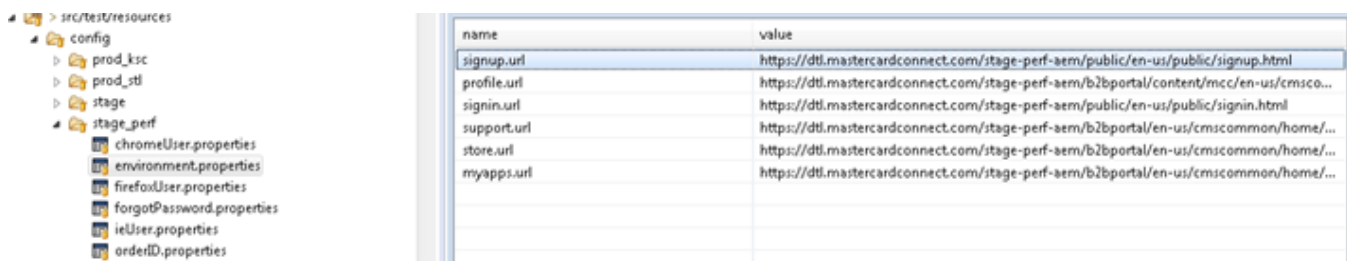
### 1. Specify region to separate code block

```
//Region- Sign up-Tab One
```

```
//EndRegion
```

- Download the plugin from [here](#)
- Extract the contents of archive
- Copy paste the contents of plugin and features folder to the same named folder inside eclipse installation directory
- Restart the eclipse
- Navigate Window >Preferences >Java >Editor >Folding >Select folding to use: Coffee Bytes Java >General tab >Tick check-boxes in front of User Defined Fold

### 2. Property File: environment. Property



The screenshot shows the Eclipse IDE interface. On the left, the 'Project Explorer' displays a project structure with folders like 'config', 'prod\_ksc', 'prod\_stl', 'stage', and 'stage\_perf'. Under 'stage\_perf', there are several property files including 'chromeUser.properties', 'environment.properties', 'firefoxUser.properties', 'forgotPassword.properties', 'ieUser.properties', and 'orderId.properties'. On the right, a table lists properties and their values.

name	value
signup.url	https://dtl.mastercardconnect.com/stage-perf-aem/public/en-us/public/signup.html
profile.url	https://dtl.mastercardconnect.com/stage-perf-aem/b2bportal/content/mcc/en-us/cmsco...
signin.url	https://dtl.mastercardconnect.com/stage-perf-aem/public/en-us/public/signin.html
support.url	https://dtl.mastercardconnect.com/stage-perf-aem/b2bportal/en-us/cmscommon/home/...
store.url	https://dtl.mastercardconnect.com/stage-perf-aem/b2bportal/en-us/cmscommon/home/...
myapps.url	https://dtl.mastercardconnect.com/stage-perf-aem/b2bportal/en-us/cmscommon/home/...

### 3. As per environment and browser we have certain properties to store generated order id and user as well.

Property File Configuration: RegressionConfiguration.java

```

@Configuration
@PropertySource("config/test.properties")
@PropertySource("config/environment.properties")
@PropertySource("serenity.properties")
@PropertySource("config/${environment}/environment.properties")
@ComponentScan(basePackages = {"com.mastercard.quality.engineering.validation"})
@PropertySource(value = "/log4j.properties", ignoreResourceNotFound = false)
public class RegressionConfiguration {

    @Configuration[]

    @Bean
    public static PropertySourcesPlaceholderConfigurer getPlaceholderConfigurer() {
        return new PropertySourcesPlaceholderConfigurer();
    }

    @Value("${environment}")
    private String environment;

    public String getEnv() {
        return environment;
    }

    @Autowired
    private MasterCardWebDelegatingDriverProvider webProvider;

    @Lazy
    @Bean
    public AbstractBasePage abstractBasePage() {
        return new AbstractBasePage(webProvider);
    }

    @Lazy
    @Bean
    public AccessCheckoutPage accessCheckoutPage() {
        return new AccessCheckoutPage(webProvider);
    }
}

```

#### 4. Maintain logger in the below format

```

/**
public void putAnswer1(String answer1) {
    txtAnswer1.sendKeys(answer1);
    logger.info(argPass + "input " + answer1 + " in answer one text box");
}

/**
public void putAnswer2(String answer2) {
    txtAnswer2.sendKeys(answer2);
    logger.info(argPass + "input " + answer2 + " in answer two text box");
}

/**Input First Name
public void putFirstName(String firstname) {
    txtFirstName.sendKeys(firstname);
    logger.info(argPass + "input " + firstname + " in first name text box");
}

```

#### 5. Data table format for Story/Test cases:-

```

:Meta:
: @Signup
: @Regression
: @all
: @driverStrategy scenario
: @eyesStrategy all
: @appName regressionMCCRewrite
: @testName signup
:
: Scenario: I - New user signup
: Given the external user signup into MCC
: When provided Your Account details from table with username password vpassword question1 answer1 question2 answer2: TestData/signup_data.table
: Then provided About You details from table with firstname lastname email phone business comments
: And provided About Your Company details from table with classification ica company
:

```

1	environment	username	password	vpassword	question1	answer1	question2	answer2	firstname	lastname	email
2	stage_perf	User	test@1234	test@1234	what is your favorite song?	song	What is your favorite movie?	movie	test	rewrite	giriya.m
3											

#### 7. MCC Rewrite Automation Repository Structure and pull request Process

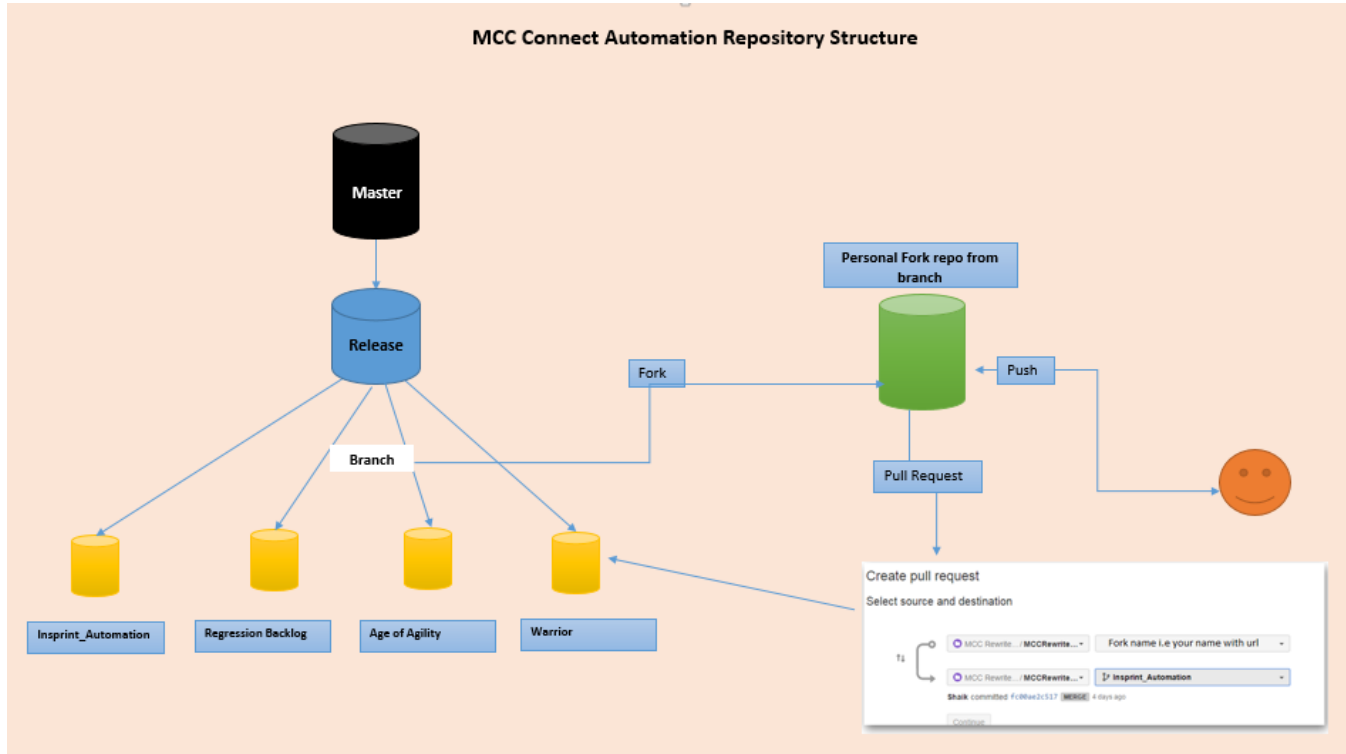
- **Step 1:** Create local workspace and Clone or fork any branch from repository (Except Release and Master Branch) Example : MCC-Warrior
- **Step 2:** Start automation in your local workspace
- **Step 3:** Take the latest code i.e. **Git pull** daily and before start your work



- **Step 4:** Commit **Git push** your local code to in-sprint team branch
- **Step 5:** Verify Build and execution from In-sprint team branch

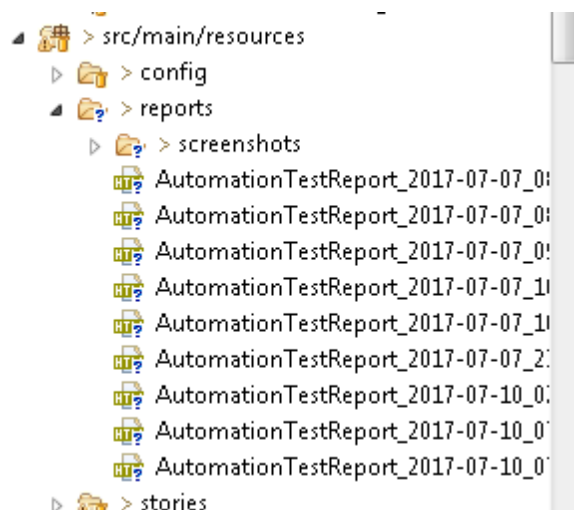
Below points have to verify before send pull request

- Sync your branch Example(MCC- Warrior) with release/Release-Regression Branch.
  - Execute all automated story from Jenkins browser stack. Note that execution should be from Jenkins browser stack and In sprint team Branch not from Release branch.
  - Verify and compare Sonar report with Release and In sprint team branch , if count is increased then team need to fix. Currently MCC Connect have ( **Blocker = 0, Critical = 6** )
- **Step 6:** If all good , Then Send pull request from in-sprint team i.e. MCC-Warriors branch to Release-Release regression branch.



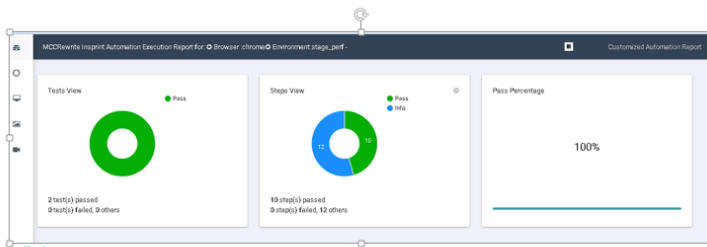
## 8. Dash board Customized Report

The path for customized dashboard as below-

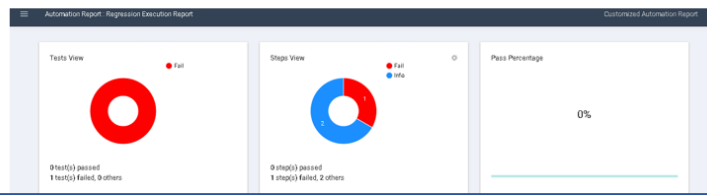


Select the current updated report and editor browser or local system browser to open the report. That look like below:-

#### Pass Report:



#### Failed Report:



## 9. JBehave Report

- > Navigate the **Target** folder of their project folder.
- > Open JBehave folder – Open view folder- open index.html page
- > Click on Html against the Story Reports as shown below picture.

The screenshot shows a file explorer on the left with the 'target' folder expanded, highlighting the 'index.html' file. The main window displays the JBehave report with a yellow header and a table titled 'Story Views'.

Name	Description	View
Story Maps	A view on the story maps generated for the configured meta filters and stories	<a href="#">html</a>
Story Reports	A view on the story reports generated when running the stories	<a href="#">html</a>



## Story Reports

Stories		Scenarios					GivenStory Scenarios					Steps							View
Name	Excluded	Total	Successful	Pending	Failed	Excluded	Total	Successful	Pending	Failed	Excluded	Total	Successful	Pending	Failed	Not Performed	Ignorable	Duration (hh:mm:ss.SSS)	
AfterStories	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00:00:00.000	state <a href="#">failed</a>
AssignResbites@SA	0	1	1	0	0	0	0	0	0	0	0	9	9	0	0	0	0	00:04:15.000	state <a href="#">passed</a>
AssignJnResbites@SA	0	1	1	0	0	0	0	0	0	0	0	9	9	0	0	0	0	00:04:05.000	state <a href="#">passed</a>
BeforeStories	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00:00:00.000	state <a href="#">passed</a>
Cart Checkout	0	1	0	0	1	0	0	0	0	0	0	14	6	0	1	7	0	00:02:41.000	state <a href="#">failed</a>
InternalSA VUBA	0	1	1	0	0	0	0	0	0	0	0	9	9	0	0	0	0	00:03:57.000	state <a href="#">passed</a>
InternalSAViewUsers	0	1	1	0	0	0	0	0	0	0	0	8	8	0	0	0	0	00:04:12.000	state <a href="#">passed</a>
MCCChangePassword	0	1	1	0	0	0	0	0	0	0	0	7	7	0	0	0	0	00:02:27.000	state <a href="#">passed</a>
MCCForgetPassword	0	1	1	0	0	0	0	0	0	0	0	5	5	0	0	0	0	00:00:46.000	state <a href="#">passed</a>
MCCForgetPin	0	1	1	0	0	0	0	0	0	0	0	5	5	0	0	0	0	00:00:49.000	state <a href="#">passed</a>
MCCUserTrackOrders	0	1	0	0	1	0	0	0	0	0	0	14	5	0	1	8	0	00:03:42.000	state <a href="#">passed</a>
ReplaceSecuraid	0	1	0	0	1	0	0	0	0	0	0	5	2	0	1	2	0	00:01:11.000	state <a href="#">failed</a>
12	0	10	7	0	3	0	0	0	0	0	0	85	65	0	3	17	0	00:29:04.000	Totals