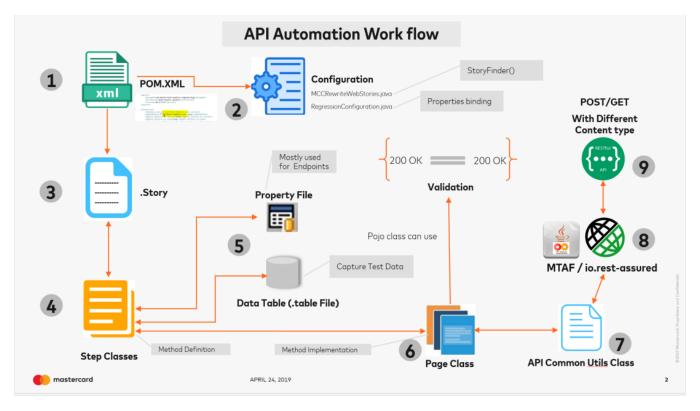
# MCC API Test Automation Guide



**1. POM.XML** - Which contains all required dependency and MTAF-CORE for automation. These are the Mastercard MTAF-CORE. dependency. Example- mtaf-ui-tools/mtaf-driver-factory/mtaf-page-bindings/mtaf-rest-tools

All depandant .jars & maven plugins are controlled in the parent-pom file (pom.xml).

For more details MTAF Projects: MTAF-CORE-PROJECTS

#### 2. Configuration

- MCCRewriteWebStories.java This class called from Pom file and contains storyPaths() method. Method will find and map story as per VM argument.
- RegressionConfiguration.java This class used for properties file binding.
- **3. Story Class -** Declare JBehave .story class as provided path src/main/resources.
- 4. Step Class- Create or add method into .steps class i.e. com.mastercard.quality.engineering.validation.steps
  - Map JBehave story steps and Java class steps with JBehave annotation.
  - It is recommend to keep method definition in step class.
  - Call test data from data table or property file and send to page class for validation.
- $\textbf{5. Page Class -} \textbf{Create or add method into page class i.e.} \ \underline{\textbf{com.mastercard.quality.engineering.validation.pages}}$ 
  - Contains all validation methods implementation
  - Contains all page element.
  - Declare all page element above of the file as per standards, Don't declare in middle.
  - Add dashboard report and try catch block in the validation methods.
- 6. API Common Utils class: com.mastercard.quality.engineering.validation.commonUtils / APICommonUtils.java
  - Contains common POST and GET method which will call MTAF io.rest-assured methods.

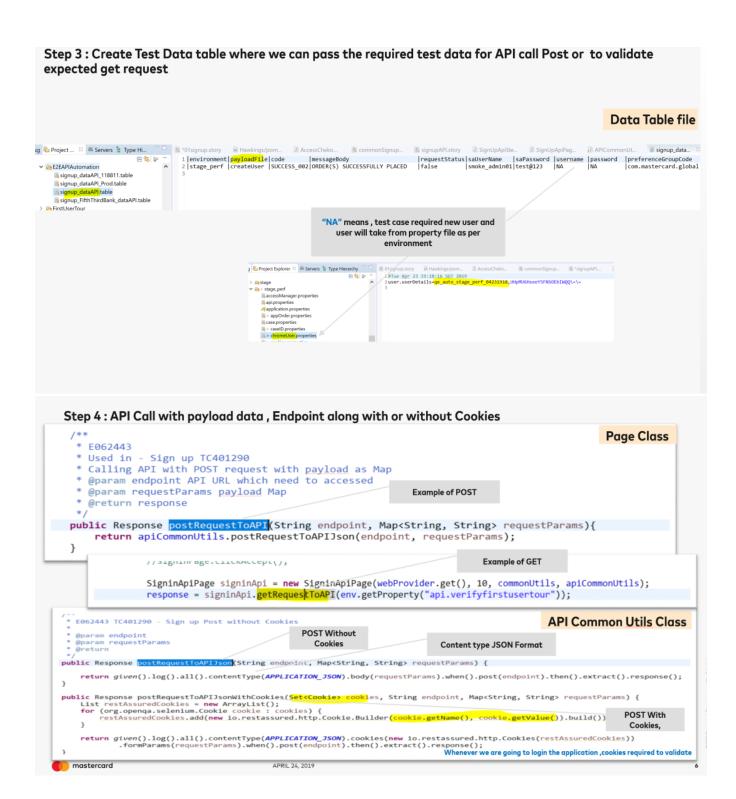
#### Few Common methods

- postRequestToAPIJson(String endpoint, Map<String, String> requestParams)
- postRequestToAPIJsonWithCookies(Set<Cookie> cookies, String endpoint, Map<String> requestParams)
- postRequestToAPI(Set<Cookie> cookies, String endpoint, Map<String, String> requestParams)

- getServiceResponseBody(Set<Cookie> cookies, String endpoint)
- getServiceResponseBody(String endpoint)

### **API Automation Workflow** Step1: Create JBeahve Story Class Story File Scenario: Sign up through API Meta: @TestId TC401290 Bind story name with @signupAPI @testCaseName meta filter either @signupApionly Get data from external resource from top or from data table @signupapprove i.e. data table @signupapprovetour @Project 193123719952d @testCaseName Sign up through API-TC401290 Given the external user signup into MCC When user hit the create user api call with update payload data Then validating success response from create user API with code messageBody requestStatus TestData/E2EAPIAutomation/signup\_dataAPI.table Compulsory Meta tag and format • Test case name i.e. @TC10001 Owner of the test case i.e. @e062443 Component name i.e. @signincritical Sprint and team name i.e. @insprintWarrior18.4.2 mastercard Step 2: Create Step Class and map Story class steps with Java class with JBehave annotations \* E062443 TC401290 Sign up through API **Step Class** @param payloadFile - decide test data property file from data table @When("user hit the create user api call with update payload data") public void enterCreateUserAPIwithPayloadData(@Named("payloadFile") String payloadFile) { createUser(payloadFile); Properties prop = new Properties(); prop.load(reader); prop.load(reader); mapCreateUserAPIData = new HashMap<>(); for (String key : prop.stringPropertyNames()) { if (key.equalsIgnoreCase(ALIAS)) { String uName = prop.getProperty(key); String username = signUpPage.getValidUserId(uName); Get environment Name as per execution Get Payload File commonUtils.setUser(username, "test@123"); mapCreateUserAPIData.put(key, username); (stage\_perf, stage) userData = } else { mapCreateUserAPIData.put(key, prop.getProperty(key)); |environment|payloadFile|code |stage\_perf|<mark>createUser</mark>|SUCCESS\_00 } catch (IOException | NullPointerException e) { Mapping keys and values from create user property file logger.error("Some issue with file : " + e); i.e. payload data. response = signUpApiPage.postRequestToAPI(env.getProperty("api.createuse"), mapCreateUserAPIData); response.prettyPrint(); commonUtils.waitInSecond(MCCRewriteConstants.TWO); Post End Points from api. Properties.

Keys is api.createuser



# Step 5: Validate actual and expected get response

```
Response resp = this.postRequestToAPI(endpoint, "{\"ids\":[" + orderId + "],\"reason\":\"test\"}");
resp.prettyPrint();
if(action.equalsIgnoreCase("Decline") && resp.asString().contains("SUCCESS_005"))
{
    isTrue = true;
}
else if(action.equalsIgnoreCase("Approve") && resp.asString().contains("SUCCESS_004"))
{
    isTrue = true;
}
```

Pretty-print the response body if possible and return it as string. Mainly useful for debug purposes when writing tests. Pretty printing is possible for content-types JSON, XML and HTML.

#### Few Common methods

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postRequestToAPIJson(String endpoint, Map<String, String> requestParams)
postRequestToAPIJsonWithCookies(Set<Cookie> cookies, String endpoint, Map<String, String> requestParams)
postRequestToAPI(Set<Cookie> cookies, String endpoint, Map<String> requestParams)
getServiceResponseBody(Set<Cookie> cookies, String endpoint)
getServiceResponseBody(String endpoint)

## Step 6: Payload or test data from property file

**Property File** 

```
Project ... 🏻 🚜 Servers 🐮 Type Hi... 📅 🗖 🔯 *01s
                                                                                                          🛮 AccessChekou... 🗓 commonSignup... 🗓 signupAPI.story 🗓 SignUpApiSte... 🗓 SignUpApiPag.
                                         □ $ | $*
                                                           1 addressLine1=
 2 addressLine2=
                                                             3 addressLine3=
                                                             4 agreementId=1.18
5 alias=qe_auto
     Raccess Manager, properties
                                                             Salias=qe_auto
6 city=
7 consentLangTxtId=1.18
8 countryCode=
9 departmentName=
      Rapplication.properties
      B > appOrder.properties
      acase.properties
                                                           9 departmentName 10 email=girija.mohanty@mastercard.com 11firstName=girija 12ica=188886 13institutionId=189186 14lastName=mohanty 15 organizationName=HSBC Bank Nevada N.A. 16 nessyndratefät?3
      B > caseID.properties
                                                                                                                                                                                          Update Consent
     S > chromeUser.properties
                                                                                                                                                                                    Language and agreement
     s cookies.properties
createPlaceOrderUser.properties
                                                                                                                                                                                        ID value as per build
      CreateUser_118811.properties
                                                           16 password=test@123
      is createUserFifthThirdBank.properties
                                                            17 phoneNumber=454353
                                                            18 postalCode=
19 comments=test
20 securityAnswer1=pet
21 securityAnswer2=color
      B > dataBase.properties
      is environment.properties
      is firefoxUser.properties
      6 forgotPassword.properties
                                                            22 securityQuestion1=9
      | > ieUser.properties
                                                            23 securityQuestion2=10
      is myltemsFavourites.properties
                                                            24 state=
25 title=unspecified
      > orderID.properties
                                                           26 userCountryCode=
27 userTypeCode=ISR
     orderStatus.properties
placeOrderUser.properties
      R queries.properties
      istoreplus.properties
      BupdateAPIWithOutPhone.properties
      BupdateAPIWithPhone.properties
      userProfile.properties
*JDBCDriver
```

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