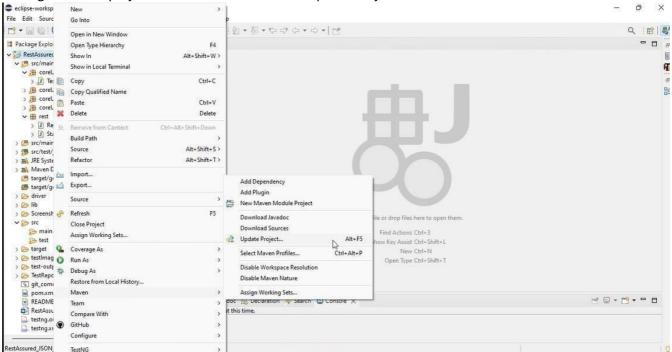
RESTASSURED API AUTOMATION PROJECT

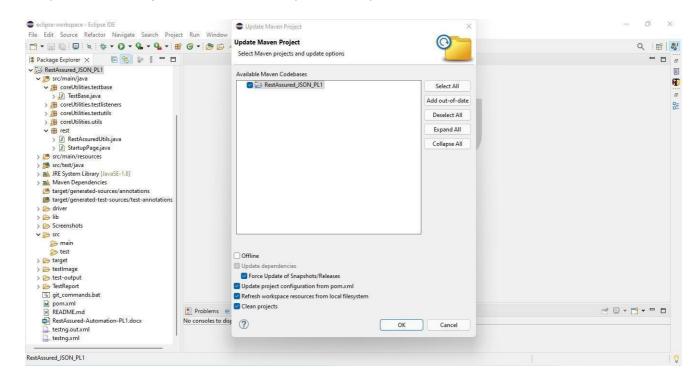
Pre-requisite:

As soon as you import a project in eclipse, update the project using the maven update option as below. This is to resolve issue if any maven dependency not downloaded properly:

1. Right click on project : Go to "Maven" : Select "Update Project"



2. In Update Maven Project Box Select "Force Update of Snapshots/Releases" and click OK



Template Code Structure:

- a. Below are the packages and files you will be required to work upon.
- b. Other Files and packages you can ignore.
- c. In other Files and packages do not do any changes. It would affect your evaluation.
- d. You are not required to work in "Test" Folder. Files there are noneditable. Editing those files and trying to save them will throw error and would affect your evaluation.

Package	Class/File	Description
src/main/java/coreUtilities/utils/	FileOperations.java	 Contains methods to read from excel file.
		Method is in templated form.
		3. You will be required to implement these methods as very first activity, because for creating post the data should be read from
		excel.
/src/main/java/rest	ApiUtil.java	 All core activities to be performed here.
		 The comments associated with each templated method here describe the expectation.
		3. Declare any variable/object you need to share data/status between different methods.
		4. Do not modify the signature of methods declared here.
		5. You can create additional supportive common methods in CommonEvents class.
/src/main/java/rest	AuthUtil.java	Class already defined to read and return bearer token from

		config.properties file.
/src/main/java/rest	CustomResponse	We have already created custom response object class. You need to use this and use it as return type from ApiUtil.java class methods.
/src/main/resources/	Config.xlsx	Data present to be used in Implementing functions.
/src/main/java/coreUtilities/utils	CommonEvents.java	 Contains all common activities. Certain templated common methods declared here. You implement them as per your need. You can add any additional method for common activity here
	Testng.xml	Execution needs to kick started from TestNG xml

PROBLEM STATEMENT

Need to automate the following activities using RestAssured.

Key Activities to implement:

Below activities need to be implemented in the ApiUtil.java file present in src/main/java/rest package.

SI	Summary	Action	Expected Result
No.			
1	Retrieve all departments in Method: getAllDepartments(String endpoint, Object body)	1.Create an URL by combining the BASE_URL (already declared) and path parameter (provided as an argument in method). The final URL becomes: https://healthapp.yaksha.com/a pi/AssetReports/GetAllDepartm ents 2. Include a bearer token for authentication in authorization header. 3.Trigger a GET call to the specified endpoint. 4.Create an object of type CustomResponse and initialize it with values extracted from the Response object: Response statusCode (extracted from Response object) DepartmentId list (extracted from Response object) DepartmentName list (extracted from Response object) Status (extracted from Response object) Status (extracted from Response object) Status (extracted from Response object)	- Returns an object of type CustomResponse containing statusCode, status, DepartmentId list, DepartmentName list, and the complete Response object. - StatusCode should be 200. - Status should be OK. - DepartmentId and DepartmentName lists should not be empty and should not be null.

2	Retrieve all the list of items	1.Create an URL by combining the	- Returns an object of type
	in Method:	BASE_URL (already declared) and	CustomResponse
		path parameter (provided as an	containing statusCode,
	getAllItems(String endpoint,	argument in method). The final	status, ItemId list,
	Object body)	URL becomes:	ItemName list, and the
		https://healthapp.yaksha.com/a	complete Response object.
		pi/AssetReports/GetAllItems	
			- StatusCode should be 200.
		2. Include a bearer token for	
		authentication in authorization	- Status should be OK.
		header.	
		3.Trigger a GET call to the specified	- ItemId list and ItemName
		endpoint.	list should not be empty.
		4.Create an object of type	
		CustomResponse and initialize it with values extracted from the	
		Response object:	
		Response	
		statusCode (extracted from	
		Response object)	
		ItemId list (extracted from	
		Response object)	
		 ItemName list (extracted from 	
		Response object)	
		 Status (extracted from 	
		Response object)	
		5. Return the CustomResponse object	
		from the method.	
3	Retrieve incentive summary	1.The final URL is provided as a	- Returns an object of type
	report in Method:	parameter (URL) and that is:	CustomResponse
	and the country of Country and the Down on	https://healthapp.yaksha.com/B	containing statusCode, status, PrescriberId list,
	getIncentiveSummaryRepor	illingReports/INCTV_DocterSum mary?FromDate="+ fromDate +	status, PrescriberId list, PrescriberName list,
	t(String URL, Object body)	"&ToDate=" + toDate +	DocTotalAmount list,
		"&IsRefferalOnly=" + isRefferal	TDSAmount list,
		Ciskerieralomy + iskerieral	NetPayableAmount list and
		2. Include a bearer token for	the complete Response
		authentication in authorization	object.
		header.	
		3. Trigger a GET call to the specified endpoint.	- StatusCode should be 200.
		4.Create an object of type	- Status should be OK.
		CustomResponse and initialize it	- Status siloulu De OK.
		with values extracted from the	- PrescriberId list,
		Response object:	PrescriberName list,
		 Response 	DocTotalAmount list,
		statusCode (extracted from	TDSAmount list and
		Response object)	NetPayableAmount list
		PrescriberId list (extracted from PrescriberI	should not be empty
		Response object as a list)	and should not be null.
		 PrescriberName list (extracted from Response object as a list) 	
	•	I II UIII NESPUIISE UDIELL AS A IISLI	
		 DocTotalAmount list (extracted from Response object as a list) 	

	_		
		 TDSAmount list (extracted from Response object as a list) NetPayableAmount list (extracted from Response object as a list) Status (extracted from Response object) Return the CustomResponse object from the method. 	
4	Retrieve incentive referral summary report in Method: getIncReffSummReport(String URL, Object body)	1.The final URL is provided as a parameter (URL) and that is: https://healthapp.yaksha.com/B illingReports/INCTV_DocterSum mary?FromDate="+ IncFromDate + "&ToDate=" + IncToDate + "&IsRefferalOnly=" + isRefferal 2. Include a bearer token for authentication in authorization header. 3.Trigger a GET call to the specified endpoint. 4.Create an object of type CustomResponse and initialize it with values extracted from the Response object: Response statusCode (extracted from Response object) PrescriberName list (extracted from Response object as a list) PrescriberId list (extracted from Response object as a list) DocTotalAmount list (extracted from Response object as a list) TDSAmount list (extracted from Response object as a list) NetPayableAmount list (extracted from Response object as a list) Status (extracted from	- Returns an object of type CustomResponse containing statusCode, status, PrescriberId list, PrescriberName list, DocTotalAmount list, TDSAmount list and the complete Response object. - StatusCode should be 200. - Status should be OK. - PrescriberId list, PrescriberName list, DocTotalAmount list, TDSAmount list and NetPayableAmount list should not be empty and should not be null.
		Response object) 5. Return the CustomResponse object from the method.	

Retrieve hospital income incentive report in Method:

getHospIncIncReport(String endpoint, Object body)

- 1.The final URL is provided as a parameter (endpoint) and that is: https://healthapp.yaksha.com/R eporting/HospitalIncomeIncentiv eReport?FromDate="+ IncFromDate + "&ToDate=" + IncToDate + "&ServiceDepartments=" + ServiceDepartments
- 2. Include a bearer token for authentication in authorization header.
- 3. Trigger a GET call to the specified endpoint.
- 4.Create an object of type
 CustomResponse and initialize it
 with values extracted from the
 Response object:
 - Response
 - statusCode (extracted from Response object)
 - ServiceDepartmentId list (extracted from Response object as a list)
 - ServiceDepartmentName list (extracted from Response object as a list)
 - NetSales list (extracted from Response object as a list)
 - ReferralCommission list (extracted from Response object as a list)
 - GrossIncome list (extracted from Response object as a list)
 - OtherIncentive list (extracted from Response object as a list)
 - HospitalNetIncome list (extracted from Response object as a list)
 - Status (extracted from Response object)
- 5. Return the CustomResponse object from the method.

- Returns an object of type CustomResponse containing statusCode, status, ServiceDepartmentId list, ServiceDepartmentName list, HospitalNetIncome list, NetSales list, OtherIncentive list. ReferralCommission list and GrossIncome list and the complete Response object.
- StatusCode should be 200.
- Status should be OK.
 - ServiceDepartmentId list,
 ServiceDepartmentNa me list,
 HospitalNetIncome list,
 NetSales list,
 OtherIncentive list,
 ReferralCommission list and GrossIncome list should not be empty and should not be null.

Retrieve employee bill items in Method:

getEmpBillItem(String
endpoint, Object body)

1.Create an URL by combining the BASE_URL (already declared) and path parameter (provided as an argument in method). The final URL becomes:

https://healthapp.yaksha.com/a pi/Incentive/EmployeeBillItems? employeeId=" + employeeId

- 2. Include a bearer token for authentication in authorization header
- 3. Trigger a GET call to the specified endpoint.
- 4.Create an object of type
 CustomResponse and initialize it
 with values extracted from the
 Response object:
 - Response
 - statusCode (extracted from Response object)
 - EmployeeIncentiveInfold object (extracted from Response object)
 - Employeeld object (extracted from Response object)
 - FullName object (extracted from Response object)
 - TDSPercent object (extracted from Response object)
 - EmpTDSPercent object (extracted from Response object)
 - IsActive object (extracted from Response object)
 - EmployeeBillItemsMap list (extracted from Response object as a list)
 - Status (extracted from Response object)
- 5. Return the CustomResponse object from the method.

- Returns an object of type CustomResponse containing statusCode, status, EmployeeIncentiveInfold object, EmployeeId object, IsActive object, FullName object, TDSPercent object, EmpTDSPercent object, EmployeeBillItemsMap list, and the complete Response object.
- StatusCode should be 200.
- Status should be OK.
- EmployeeIncentiveInfold object, EmployeeId object, IsActive object , FullName object , TDSPercent object , EmpTDSPercent object , EmployeeBillItemsMap list should not be null and should not be empty.

7	Retrieve inventory fiscal years	1.Create an URL by combining the	- Returns an object of type
	in Method:	BASE_URL (already declared) and	CustomResponse
		path parameter (provided as an	containing statusCode,
	getInvntryFiscalYrs(String	argument in method). The final	status, FiscalYearId
	endpoint, Object body)	URL becomes:	list, FiscalYearName
		https://healthapp.yaksha.com/a	list, StartDate
		pi/Inventory/InventoryFiscalYear	list, EndDate
		S	list, IsActive
		2 Include a harmontal and fan	list and the complete
		Include a bearer token for authentication in authorization	Response object.
		header. 3.Trigger a GET call to the specified	- StatusCode should be 200.
		endpoint.	- Status should be OK.
		4.Create an object of type	
		CustomResponse and initialize it	- FiscalYearId
		with values extracted from the	list, FiscalYearName
		Response object:	list, StartDate
		ResponsestatusCode (extracted from	list, EndDate
		Response object)	list, IsActive list should not
		FiscalYearId list (extracted from	be null.
		Response object as a list)	
		 FiscalYearName list (extracted 	
		from Response object as a list)	
		 StartDate list (extracted from 	
		Response object as a list)	
		EndDate list (extracted from Page 2 a big st og a list)	
		Response object as a list) IsActive list (extracted from	
		Response object as a list)	
		Status (extracted from	
		Response object)	
		5. Return the CustomResponse object	
		from the method.	
8	Activate inventory in	1.Create an URL by combining the	- Returns an object of type
	Method:	BASE_URL (already declared) and	CustomResponse
		path parameter (provided as an	containing statusCode,
	getActInventory(String	argument in method). The final	status, StoreId list, Name
	endpoint, Object body)	URL becomes:	list, StoreDescription list
		https://healthapp.yaksha.com/a	and the complete Response
		pi/ActivateInventory/	object.
		Include a bearer token for authentication in authorization	- StatusCode should be 200.
		header.	- Status should be OK.
		3.Trigger a GET call to the specified	Status should be OK.
		endpoint.	- StoreId list, Name list and
		4.Create an object of type	StoreDescription list should
		CustomResponse and initialize it	not be empty and should
		with values extracted from the	not be compty and should not be null.
		Response object:	
		Response	
		 statusCode (extracted from 	

	Response object) Storeld list (extracted from Response object as a list) Name list (extracted from Response object as a list) StoreDescription list (extracted from Response object as a list) Status (extracted from Response object) Response object) Return the CustomResponse object from the method.	
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NOTE: "Please do not delete any file in the src folder. But you are free to add any other file".

Expectations:

- 1) Learners should write automation scripts using Java and REST Assured to automate the API testing for all the provided methods (e.g., GET, POST, PUT, DELETE). In other words, the automation script should perform all mentioned API interactions, including validation of responses.
- 2) Learners should not use any pre-built libraries or tools to validate API responses (e.g., JSON schema validation tools). They should manually validate the response content (e.g., status codes, response body, etc.) by writing their own logic for assertion.

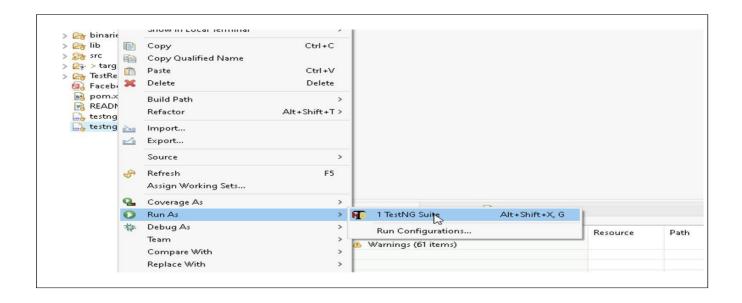
IMPLEMENTATION/FUNCTIONAL REQUIREMENT

1.1 CODE QUALITY/OPTIMIZATIONS

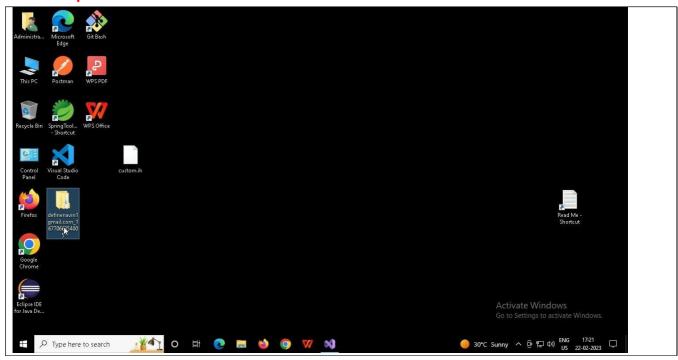
- 1. Associates should have written clean code that is readable.
- 2. Associates need to follow SOLID programming principles.

EXECUTION STEPS TO FOLLOW

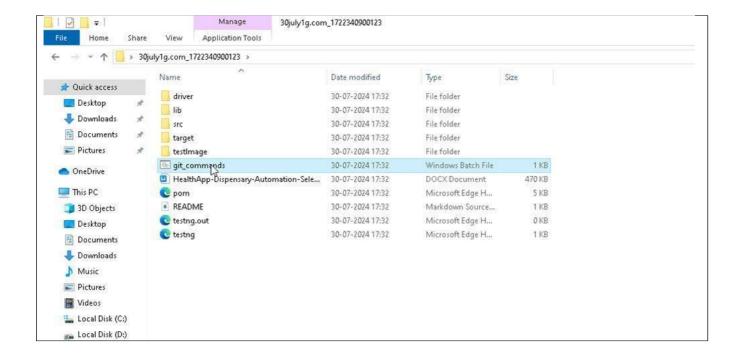
- 1. You are mandatorily required to run test cases for applications before final submission. Without which project evaluation will not happen.
- 2. You can launch test cases any time as follows: Right click on testng.xml and run TestNGSuite



3. Before final submission, you are also required to push your code to GIT. Following are the steps to follow:



In your project folder, you will find a batch file named git_commands



Double-click the batch file to run it. It will run the commands to push your code to GIT.

All the Best