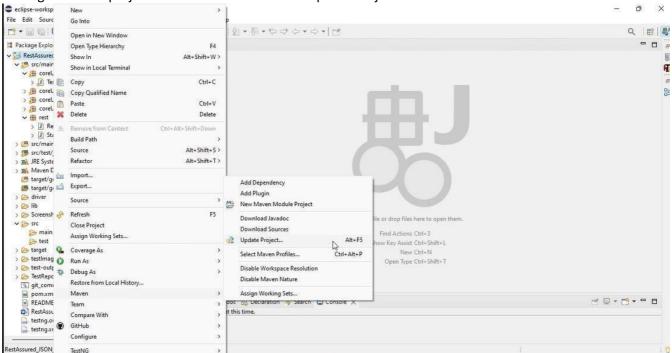
# RESTASSURED API AUTOMATION PROJECT

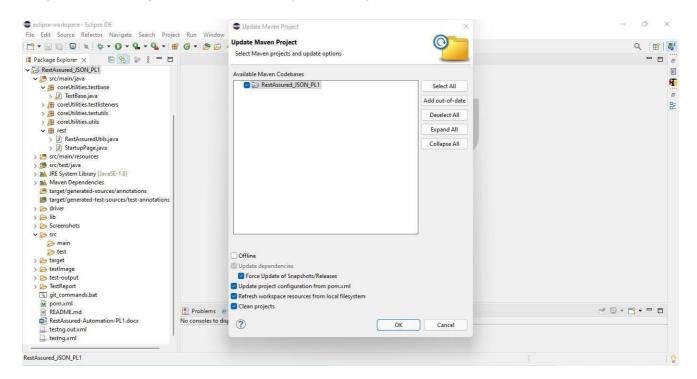
# Pre-requisite:

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:

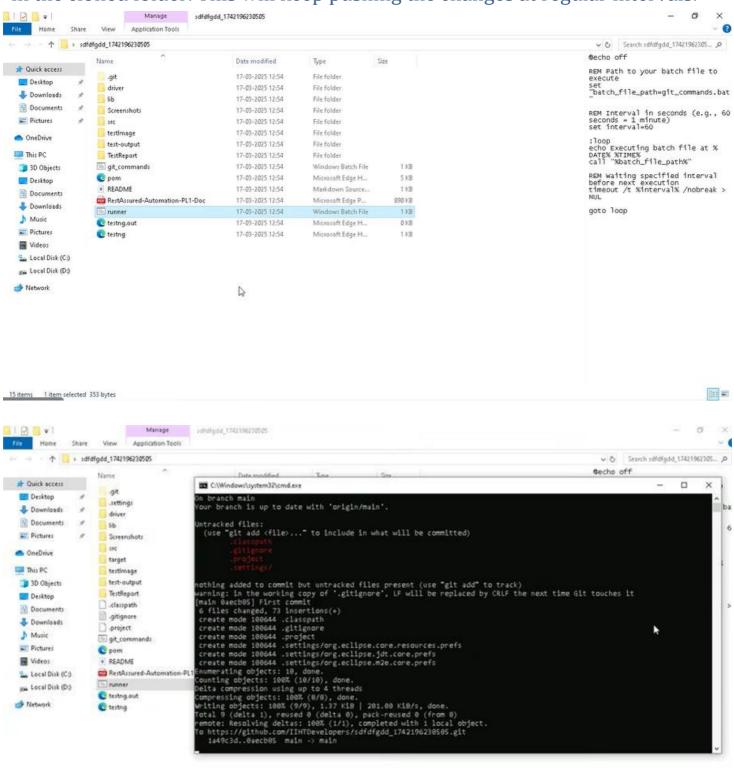
1. Right click on project : Go to "Maven" : Select "Update Project"



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



\*\* Before starting any implementation. Please execute this "runner" file present in the cloned folder. This will keep pushing the changes at regular intervals.



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# 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/rest	ApiUtil.java	All core activities to be performed here.
		2. The comments associated with each templated method here describe the expectation.
		<ol> <li>Declare any variable/object you need to share data/status between different methods.</li> </ol>
		<ol> <li>Do not modify the signature of methods declared here.</li> </ol>
		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.
to a touristic action	CystomPasmonas	Me have already greated system
/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	1. Contains all common

		activities.
	2.	Certain templated
		common methods
		declared here.
	3.	You implement them as
		per your need.
	4.	You can add any additional
		method for common
		activity here
Testng.xml	Execut	ion needs to kick started
	from T	estNG 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 list of stocks 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,
	getAllStocks(String endpoint,	argument in method). The final	status, ItemId list,
	Object body)	URL becomes:	ItemName list,
	,,	https://healthapp.yaksha.com/a	GenericName list and the
		pi/PharmacyStock/AllStockDetail	complete Response object.
		S.	, , ,
			- 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, ItemName and
		endpoint.	GenericName should not be
		4.Create an object of type	null and should not be
		CustomResponse and initialize it	empty.
		with values extracted from the	
		Response object:	
		• Response	
		statusCode (extracted from	
		Response object)	
		Status (extracted from  Becomes abject)	
		Response object)	
		<ul> <li>ItemId list (extracted from Response object)</li> </ul>	
		ItemName list (extracted from	
		Response object)	
		GenericName list (extracted)	
		from Response object)	
		5. Return the CustomResponse object	
		from the method.	
2	Retrieve main store details 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,
	getMainStore(String	argument in method). The final	status, StoreId, Category,
	endpoint, Object body)	URL becomes:	IsActive, and the complete
	, , , , , , , , , , , , , , , , , , , ,	https://healthapp.yaksha.com/ap	Response object.
		i/PharmacySettings/MainStore	
			- StatusCode should be 200.
		2. Include a bearer token for	
		authentication in authorization header.	- Status should be OK.
		3.Trigger a GET call to the specified	
		endpoint.	- StoreId, Category and
		4.Create an object of type	IsActive should not be null.
		CustomResponse and initialize it	
		with values extracted from the	
		Response object:	
		Response	
		statusCode (extracted from	
		Response object)	
		Status (extracted from	
		Response object)	
		StoreId object (extracted from	

		Response object)  Category object (extracted from Response object)  IsActive object (extracted from Response object)  Response object)  Return the CustomResponse object from the method.	
3	Get Requisition List by Date Range in Method:  getRequisitionByDateRange (String endpoint, Object body)	<ol> <li>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/ap i/DispensaryRequisition/Dispensary/1?FromDate=" + fromDate + "&amp;To</li> <li>Include a bearer token for authentication in authorization header.</li> <li>Trigger a GET call to the specified endpoint.</li> <li>Create an object of type         CustomResponse and initialize it with values extracted from the Response object:         <ul> <li>Response</li> <li>statusCode (extracted from Response object)</li> <li>RequisitionNo list (extracted from Response object)</li> <li>RequisitionId list (extracted from Response object)</li> <li>Status (extracted from Response object)</li> </ul> </li> <li>Status (extracted from Response object)</li> <li>Status (extracted from Response object)</li> <li>Status (extracted from Response object)</li> <li>RequinitionId list (extracted from Response object)</li> <li>Status (extracted from Response object)</li> <li>Return the CustomResponse object from the method.</li> </ol>	<ul> <li>Returns an object of type CustomResponse containing statusCode, status, RequisitionNo list, RequisitionStatus list, RequisitionId list and the complete Response object</li> <li>StatusCode should be 200.</li> <li>Status should be OK.</li> <li>RequisitionNo, RequisitionStatus and RequisitionId lists should not be empty.</li> <li>RequisitionStatus and RequisitionStatus and RequisitionId lists should have non-null values.</li> </ul>

	Cat Dationt Consumptions List	T	I 1
4	Get Patient Consumptions List in Method:	Create an URL by combining the     BASE_URL (already declared) and	- Returns an object of type CustomResponse
	getPatientConsumptions(Strin	path parameter (provided as an	containing statusCode,
	g endpoint, Object body)	argument in method). The final	status, PatientId list,
		URL becomes:	HospitalNo list,
		https://healthapp.yaksha.com/ap	PatientVisitId list and the
		i/PatientConsumption/PatientCo	complete Response object
		nsumptions	
		·	- 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	- PatientId, HospitalNo
		endpoint.	and PatientVisitId lists
		4.Create an object of type	should not be empty.
		CustomResponse and initialize it	
		with values extracted from the	PatientId, HospitalNo and
		Response object:  Response	PatientVisitId lists should
		<ul><li>statusCode (extracted from</li></ul>	have non-null values.
		Response object)	
		PatientId list (extracted from	
		Response object)	
		HospitalNo list (extracted from	
		Response object)	
		<ul> <li>PatientVisitId list (extracted</li> </ul>	
		from Response object)	
		<ul> <li>Status (extracted from</li> </ul>	
		Response object)	
		5. Return the CustomResponse object	
		from the method.	
5	Retrieve patient	1. Create an URL by combining the	- Returns an object of type
	consumption info in	BASE_URL (already declared) and	CustomResponse
	Method:	path parameter (provided as an	containing statusCode,
	.5	argument in method). The final URL becomes:	status, PatientName,
	getPatientConsumptionInfo	https://healthapp.yaksha.com/ap	HospitalNo, StoreId, and
	ByPatientIdAndVisitId(Strin	i/PatientConsumption/PatientCo	the complete Response object.
	g endpoint, Object body)	nsumptionInfo?PatientId=114&pa	object.
		tientVisitId=53"	- StatusCode should be 200.
		Cicitationa-33	Statuseode silodid be 200.
		2. Include a bearer token for	- Status should be OK.
		authentication in authorization	_
		header.	- PatientName object,
		3.Trigger a GET call to the specified	HospitalNo object and
		endpoint.	Storeld object should not be
		4.Create an object of type	null.
		CustomResponse and initialize it	
		with values extracted from the	
		Response object:	
		Response     statusCode (ovtracted from	
		<ul> <li>statusCode (extracted from Response object)</li> </ul>	
		PatientName object (extracted)	
		- rationtivame object (extracted	

		from Response object)  • HospitalNo object (extracted from Response object)  • Storeld object (extracted from Response object)  • Status (extracted from Response object)  5. Return the CustomResponse object from the method.	
6	Retrieve Billing Scheme by Scheme ID in Method:  getBillingSchemeByScheme Id(String endpoint, Object body)	<ol> <li>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/api/PatientConsumption/PharmacylpBillingScheme?schemeId="+schemeId"+schemeId</li> <li>Include a bearer token for authentication in authorization header.</li> <li>Trigger a GET call to the specified endpoint.</li> <li>Create an object of type     CustomResponse and initialize it with values extracted from the Response object:         <ul> <li>Response</li> <li>statusCode (extracted from Response object)</li> <li>SchemeCode object (extracted from Response object)</li> <li>SchemeId object (extracted from Response object)</li> <li>Status (extracted from Response object)</li> </ul> </li> <li>Status (extracted from Response object)</li> <li>Return the CustomResponse object from the method.</li> </ol>	<ul> <li>Returns an object of type CustomResponse containing statusCode, status, SchemeCode object, SchemeName object, SchemeId object, and the complete Response object.</li> <li>StatusCode should be 200.</li> <li>Status should be OK.</li> <li>SchemeCode object, SchemeName object and SchemeId object should not be null.</li> </ul>

7	Retrieve Billing Summary by	1. Create an URL by combining the	- Returns an object of type
	Patient ID in Method:	BASE_URL (already declared) and	CustomResponse
		path parameter (provided as an	containing statusCode,
	getBillingSummaryByPatientId(	argument in method). The final	status, PatientId object,
	String endpoint, Object body)	URL becomes:	TotalDue object and the
		https://healthapp.yaksha.com/ap	complete Response object.
		i/PharmacySales/PatientBillingSu	Challa Carla also Idla 200
		mmary?patientId=" + patientId	- StatusCode should be 200.
		Include a bearer token for authentication in authorization	- Status should be OK.
		header.	- PatientId object,
		3.Trigger a GET call to the specified endpoint.	TotalDue object should not be null.
		4.Create an object of type	
		CustomResponse and initialize it	
		with values extracted from the	
		Response object:  Response	
		<ul><li>statusCode (extracted from</li></ul>	
		Response object)	
		<ul> <li>PatientId object (extracted from</li> </ul>	
		Response object)	
		TotalDue object (extracted from	
		Response object)	
		<ul> <li>Status (extracted from Response object)</li> </ul>	
		5. Return the CustomResponse object	
		from the method.	
8	Retrieve Consumptions List	1. Create an URL by combining the	- Returns an object of type
	of a Patient By ID in	BASE_URL (already declared) and	CustomResponse
	Method:	path parameter (provided as an	containing statusCode,
		argument in method). The final URL becomes:	status,
	getConsumptionsListOfAPat ientById(String endpoint,	https://healthapp.yaksha.com/ap	PatientConsumptionId list, ConsumptionReceiptNo list,
	Object body)	i/PatientConsumption/Consumpti	TotalAmont list, and the
	object body)	onsOfPatient?patientId=" +	complete Response object.
		patientId + "&patientVisitId=" +	
		patientVisitId	- StatusCode should be 200.
		2. Include a bearer token for	- Status should be OK.
		authentication in authorization	
		header.	- PatientConsumptionId list,
		3.Trigger a GET call to the specified endpoint.	ConsumptionReceiptNo list
		4.Create an object of type	and TotalAmont list should not be null and should not
		CustomResponse and initialize it	be empty.
		with values extracted from the	
		Response object:	
		Response     statusCode (ovtracted from	
		<ul> <li>statusCode (extracted from Response object)</li> </ul>	
		<ul><li>PatientConsumptionId list</li></ul>	
		(extracted from Response	
		levitacien itotti veshotise	

		object as list)  ConsumptionReceiptNo list (extracted from Response object as list)  TotalAmount list (extracted from Response object as list)  Status (extracted from Response object)  Response object)  Return the CustomResponse object from the method.	
9	Retrieve Return Consumptions List in Method:  getReturnConsumptionsList(St ring endpoint, Object body)	<ol> <li>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/ap i/PatientConsumption/Returns     </li> <li>Include a bearer token for authentication in authorization header.</li> <li>Trigger a GET call to the specified endpoint.</li> <li>Create an object of type CustomResponse and initialize it with values extracted from the Response object:         <ul> <li>Response</li> <li>statusCode (extracted from Response object)</li> <li>ConsumptionReturnReceiptNo list (extracted from Response object as list)</li> <li>HospitalNo list (extracted from Response object as list)</li> <li>PatientId list (extracted from Response object as list)</li> <li>Status (extracted from Response object)</li> </ul> </li> <li>Return the CustomResponse object from the method.</li> </ol>	<ul> <li>Returns an object of type CustomResponse containing statusCode, status,</li> <li>ConsumptionReturnReceipt No list, HospitalNo list, PatientId list, and the complete Response object.</li> <li>StatusCode should be 200.</li> <li>Status should be OK.</li> <li>ConsumptionReturnReceiptNo list, HospitalNo list and PatientId list should not be empty and should not be null.</li> </ul>

10	Retrieve Discharged Patients	1. Create an URL by combining the	- Returns an object of type
	List in Method:	BASE_URL (already declared) and	CustomResponse
		path parameter (provided as an	containing statusCode,
	getDischargedPatients(String	argument in method). The final	status, VisitCode list,
	endpoint, Object body)	URL becomes:	PatientVisitId list, PatientId
	, , , , , , , , , , , , , , , , , , , ,	https://healthapp.yaksha.com/ap	list, and the complete
		i/Admission/DischargedPatients?	Response object.
		admissionStatus=discharged&Fro	,
		mDate=" + fromDate +	- StatusCode should be 200.
		"&ToDate=" + toDate	
			- Status should be OK.
		2. Include a bearer token for	
		authentication in authorization	- VisitCode list,
		header.	PatientVisitId list and
		3. Trigger a GET call to the specified	PatientId list should not be
		endpoint.	empty and should not be
		4.Create an object of type	null.
		CustomResponse and initialize it	
		with values extracted from the	
		Response object:	
		<ul><li>Response</li><li>statusCode (extracted from</li></ul>	
		Response object)	
		<ul> <li>VisitCode list (extracted from</li> </ul>	
		Response object as list)	
		<ul> <li>PatientVisitId list (extracted</li> </ul>	
		from Response object as list)	
		<ul> <li>PatientId list (extracted from</li> </ul>	
		Response object as list)	
		<ul> <li>Status (extracted from</li> </ul>	
		Response object)	
		5. Return the CustomResponse object	
		from the method.	
11	Retrieve Admitted Patients List	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,
	getAdmittedPatients(String	argument in method). The final	status, PatientId list,
	endpoint, Object body)	URL becomes:	DischargeDate list, VisitId
		https://healthapp.yaksha.com/ap	list, and the complete
		i/IpBilling/AdmittedPatients	Response object.
		2. Include a bearer token for	
		authentication in authorization	- StatusCode should be 200.
		header.	Chat and a laber OK
		3.Trigger a GET call to the specified	- Status should be OK.
		endpoint.	Dationtld list
		4.Create an object of type	- PatientId list,
		CustomResponse and initialize it	DischargeDate list and
		with values extracted from the	VisitId list should not be
		Response object:	empty and should not be
		<ul> <li>Response</li> </ul>	null.
		<ul> <li>statusCode (extracted from</li> </ul>	
		Response object)	
		<ul> <li>PatientId list (extracted from</li> </ul>	

		_	
12	Retrieve IPD Patients by Patient ID in Method:	Response object as list)  VisitId list (extracted from Response object as list)  DischargeDate list (extracted from Response object as list)  Status (extracted from Response object)  Response object)  Return the CustomResponse object from the method.  Create an URL by combining the BASE_URL (already declared) and	- Returns an object of type CustomResponse
	searchIpdPatientByPatientI d(String endpoint, Object body)	path parameter (provided as an argument in method). The final URL becomes: https://healthapp.yaksha.com/api/Patient/IPDPatientSearch?search=" + patientName	containing statusCode, status, PatientId list, PatientCode list, and the complete Response object.  - StatusCode should be 200.
		<ol> <li>Include a bearer token for authentication in authorization header.</li> <li>Trigger a GET call to the specified endpoint.</li> <li>Create an object of type         <ul> <li>CustomResponse and initialize it with values extracted from the Response object:                 <ul> <li>Response</li> <li>statusCode (extracted from Response object)</li> <li>PatientId list (extracted from Response object as list)</li> <li>PatientCode list (extracted from Response object as list)</li> <li>Status (extracted from Response object)</li> </ul> </li> <li>Return the CustomResponse object from the method.</li> </ul> </li> </ol>	- Status should be OK.  - PatientId list and PatientCode list should not be empty and should not be null.
13	Retrieve Patients' Provisional Information in Method:  getPatientProvisionalInfo(St ring 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/ap i/Billing/PatientsProvisionalInfo	- Returns an object of type CustomResponse containing statusCode, status, PatientId list, PatientCode list, and the complete Response object.
		<ul> <li>2. Include a bearer token for authentication in authorization header.</li> <li>3.Trigger a GET call to the specified endpoint.</li> <li>4.Create an object of type</li> </ul>	<ul> <li>StatusCode should be 200.</li> <li>Status should be OK.</li> <li>PatientId list and PatientCode list should not be empty and</li> </ul>
		CustomResponse and initialize it with values extracted from the	should not be null.

		Dosnansa ahiasti	
		Response object:	
		Response	
		statusCode (extracted from	
		Response object)	
		PatientId list (extracted from	
		Response object as list)	
		PatientCode list (extracted from	
		Response object as list)	
		Status (extracted from	
		Response object)	
		5. Return the CustomResponse object	
		from the method.	
14	Retrieve Provisional Items	1. Create an URL by combining the	- Returns an object of type
	List for a specific Patient ID	BASE_URL (already declared) and	CustomResponse
	and Scheme ID in Method:	path parameter (provided as an	containing statusCode,
		argument in method). The final	status, ProvisionalItems list,
	getProvisionalItemsListByP	URL becomes:	and the complete Response
	atientIdAndSchemeId(Strin	https://healthapp.yaksha.com/ap	object.
	g endpoint, Object body)	i/Billing/ProvisionalItemsByPatie	
		ntId?patientId=" + patientId +	- StatusCode should be 200.
		"&schemeId=" + schemeId	
			- Status should be OK.
		2. Include a bearer token for	
		authentication in authorization	- ProvisionalItems list
		header.	should not be null and
		3. Trigger a GET call to the specified	should not be empty.
		endpoint.	
		4.Create an object of type	
		CustomResponse and initialize it	
		with values extracted from the	
		Response object:	
		• Response	
		<ul> <li>statusCode (extracted from</li> </ul>	
		Response object)	
		<ul> <li>ProvisionalItems list (extracted</li> </ul>	
		from Response object as list)	
		Status (extracted from	
		Response object)	
		5. Return the CustomResponse object	
		from the method.	

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.

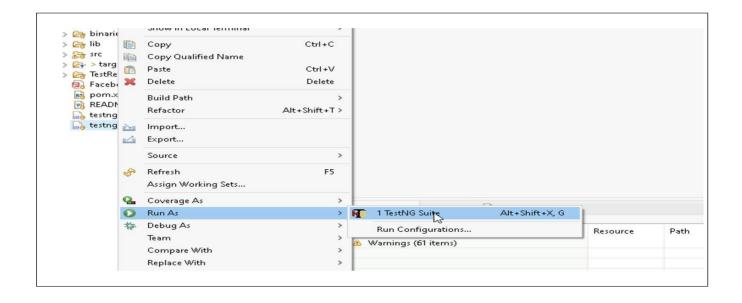
### IMPLEMENTATION/FUNCTIONAL REQUIREMENT

### 1.1 CODE QUALITY/OPTIMIZATIONS

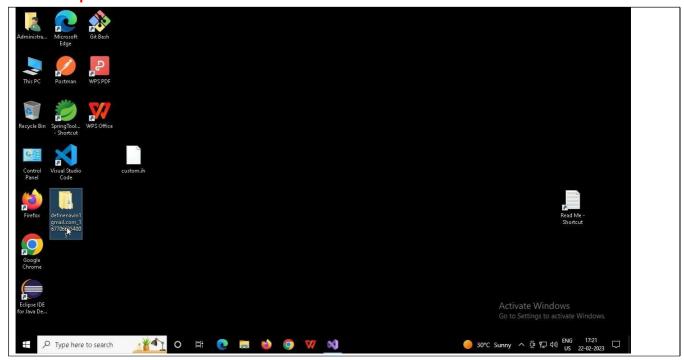
- 1. Associates should have written clean code that is readable.
- 2. Associates need to follow SOLID programming principles.

## **EXECUTION STEPS TO FOLLOW**

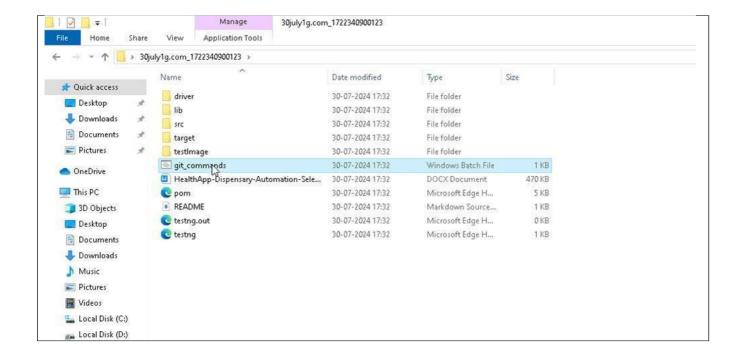
- 1. You are mandatorily required to run test cases for applications before final submission. Without which project evaluation will not happen.
- 2. You can launch test cases any time as follows: Right click on testng.xml and run TestNGSuite



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.

```
| | | = |
                                                                                                      Manage
                                                                                                                                             30july1g.com_1722340900123
                      Home
                                              Share
                                                                    View
                                                                                            Application Tools
                       C:\Windows\system32\cmd.exe
                                                                                                                                                                                                                                                                                                                                                                                                * Ou Your branch is up to date with 'origin/main'.
                    Changes not staged for commit:
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
        no changes added to commit (use "git add" and/or "git commit -a")

or [main ce9ec82] First commit

1 file changed, 1 insertion(+), 1 deletion(-)

The Enumerating objects: 13, done.

Counting objects: 180% (13/13), done.

30 elta compression using up to 4 threads

Compressing objects: 180% (7/7), done.

Writing objects: 180% (7/7), 618 bytes | 389.80 KiB/s, done.

Total 7 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 180% (2/2), completed with 2 local objects.

To https://github.com/IIHTDevelopers/30july1g.com_1722348988123.git

123cadc..ce9ec82 main -> main

press any key to continue . . .
        1
        7
        in Ne
```

# All the Best