Postman

Agenda

- 1. Student API's testing
- 2. Validations
- 3. Workflows
- 4. Order of Execution

Student API Tests

Student API Features:

- 1) Create new Student (Post)
- 2) Listing of Students (Get)
- 3) Update student (Put)
- 4) Delete Student (Delete)

How to run Student API

- 1) Open Command Prompt--> Goto file location
- 2) Run below command

E:\>java -jar --add-modules java.xml.bind studentApp.jar --server.port=8085

3) Check API is running or not

http://localhost:8085/student/list

Student API Test Cases

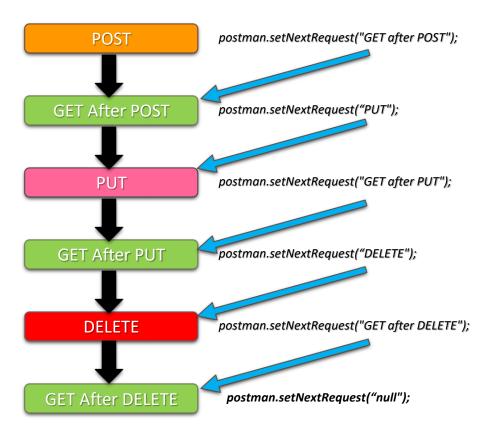
T	c	Title	URL	HTTP Request Type	Body	Body Type	Response	Response Code	Test script
	1	Create new record	http://localhost:8085/student	POST	{ "id": 101, "firstName": "Pavan", "lastName": "Kumar", "email": "abcxy2@risusDonecegestas.edu ", "programme": "Manger", "courses": ["Java", "Selenium"] }	JSON(Application/json)	{ "msg": "Student added" }	201 Created	tests["Status Code is 200"] = responseCode.code === 201; tests["Body contains Fault"] = responseBody.has("Student added");
	2	Retrieve a record	http://localhost:8085/student /101	GET	NA	NA	{ "id": 101, "firstName": "Pavan", "lastName": "Kumar", "email": "abcxyz@risusDonecegestas.ed u", "programme": "Manger", "courses": ["Java", "Selenium"]]	200 OK	tests["Status Code is 200"] = responseCode.code === 200; tests["Body contains Fault"] = responseBody.has("Pavan"); tests["Body contains Fault"] = responseBody.has("Kumar");
	3	Update record	http://localhost:8085/student /101	РИТ	{ "id": 101, "firstName": "Pavan", "lastName": "Kumar", "email": "abcxy:@risusDonecegestas.edu ", "programme": "Trainer", "courses": ["Java", "Selenium", "Bigdata"]	JSON(Application/json)	{ "msg": "Student Updated" }	200 ОК	tests["Status Code is 200"] = responseCode.code === 200 ; tests["Body contains Fault"] = responseBody.has("Student Updated") ;
	4	Delete record	http://localhost:8085/student /101	DELETE	NA	NA		204 Content Not Found	tests["Status Code is 204"] = responseCode.code === 204;

Validations(Tests)

Validations	Script	Function
Check if response body contains a string	tests["Validating response body"] = responseBody.has("Student added");	<pre>pm.test("Body matches string", function () { pm.expect(pm.response.text()).to.include("Student added"); });</pre>
Check Status code	tests["Validating Status Code"] = responseCode.code === 201;	pm.test("Status code is 201", function () { pm.response.to.have.status(201); });
Response time is less than 200ms	tests["Response time is less than 200ms"] = responseTime < 200;	<pre>pm.test("Response time is less than 200ms", function () { pm.expect(pm.response.responseTime).to.be.below(200); });</pre>
Successful POST request status code	tests["Successful POST request"] = responseCode.code === 201 responseCode.code === 202;	pm.test("Successful POST request", function () { pm.expect(pm.response.code).to.be.oneOf([201,202]); });
Content-Type is present in Header	tests["Content-Type is present"] = postman.getResponseHeader("Content-Type");	<pre>pm.test("Content-Type is present", function () { pm.response.to.have.header("Content-Type"); });</pre>

Workflows in Postman

- > Execution order of collection runner
- > What is Workflow and default workflow.
- > How to change the workflow
- > setNextRequest in Postman

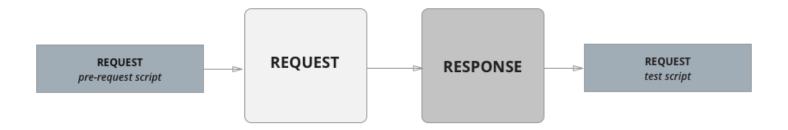


Postman Coding

- We can write code in 2 places under...
 - Pre-request script
 - Tests
- We can see results in Postman Console

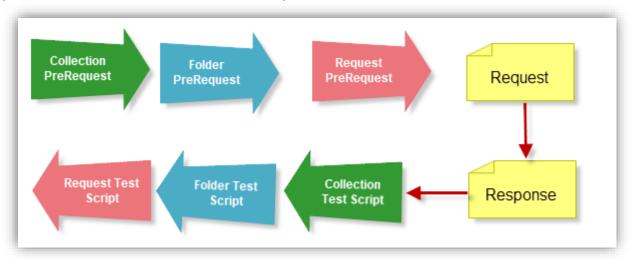
Execution order of scripts

- In Postman, the script execution order for a request looks like this:
 - A pre-request script associated with a request will execute before the request is sent
 - A test script associated with a request will execute after the request is sent



Execution order of scripts...

- For every request in a collection, scripts will execute in the following order:
 - A pre-request script associated with a collection will run prior to every request in the collection.
 - A pre-request script associated with a folder will run prior to every request in the folder.
 - A test script associated with a collection will run after every request in the collection.
 - A test script associated with a folder will run after request in the folder.



Execution order of scripts...

