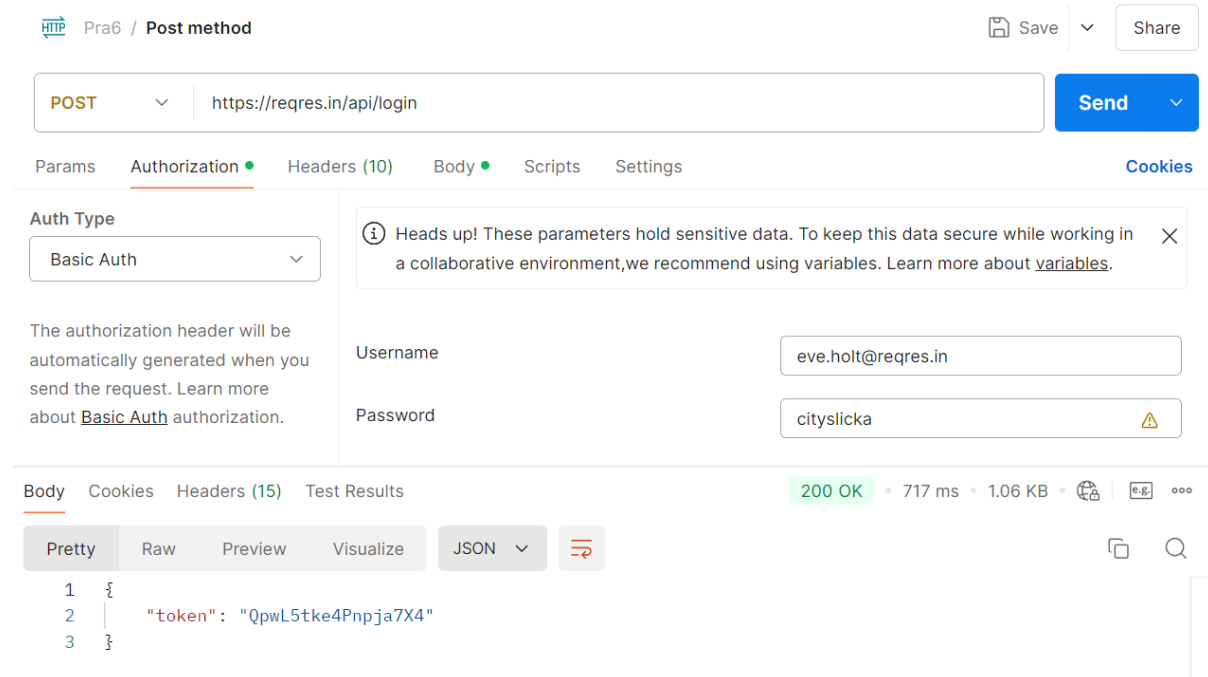


## 6. In Postman, test a REST API to demonstrate Authorization by generating a 'Bearer Token' to access a REST API.

->



7. Collection-level authorization and Folder-level Authorization

->

Collection-level authorization:

+

...

Lab7

GET Get

Pra1

Pra2

Pra6

GET Post method

GET

https://reqres.in/api/users/2

Send

Params

Authorization

Headers (8)

Body

Scripts

Settings

Headers

8 hidden

Key	Value	Description	Bulk Edit	Presets
Key	Value	Description		

Body

Cookies

Headers (19)

Test Results

200 OK • 481 ms • 1.36 KB

Key	Value
Date	Thu, 28 Nov 2024 14:47:24 GMT
Content-Type	application/json; charset=utf-8
Transfer-Encoding	chunked
Connection	keep-alive
Report-To	{\"group\":\"heroku-nel\",\"max_age\":3600,\"endpoints\":{\"url\":\"https://...

Folder-level Authorization

->

+

...

Lab7

Folder-level Authorization

GET Get

Pra1

Pra2

Pra6

GET Post method

POST

https://reqres.in/api/login

Send

Params

Authorization

Headers (10)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

```
1 {
2   "email": "eve.holt@reqres.in",
3   "password": "cityslicka"
4 }
5
```

Body

Cookies

Headers (15)

Test Results

201 Created • 818 ms • 114 KB

Pretty

Raw

Preview

Visualize

JSON

```
1 {
2   "email": "eve.holt@reqres.in",
3   "password": "cityslicka",
4   "id": "928",
5   "createdAt": "2024-11-28T14:51:27.668Z"
6 }
```

## 8. Demonstrate how to run POSTMAN requests/tests from command line (newman).

### -> Pra 4:

```
C:\MASTER OF COMPUTER APPLICATIONS (MCA)\MCA SEM 3\REST API AND TESTING\Newman>newman run Lab4.postman_collection.json
newman

Lab4

→ Post
POST https://rahulshettyacademy.com/maps/api/place/add/json?key= qaclick123 [200 OK, 610B, 462ms]

→ Post Method 2
POST https://rahulshettyacademy.com/maps/api/place/delete/json?key=qaclick123 [404 Not Found, 490B, 1957ms]
```

	executed	failed
iterations	1	0
requests	2	0
test-scripts	0	0
prerequest-scripts	0	0
assertions	0	0
total run duration: 2.5s		
total data received: 263B (approx)		
average response time: 1209ms [min: 462ms, max: 1957ms, s.d.: 747ms]		

### Pra 5 :

```
C:\MASTER OF COMPUTER APPLICATIONS (MCA)\MCA SEM 3\REST API AND TESTING\Newman>newman run Lab5.postman_collection.json
newman

Lab 5

→ Post
POST https://reqres.in/api/login [200 OK, 1.09kB, 1978ms]
✓ Status code is 200

→ Get
GET https://reqres.in/api/login [200 OK, 1.91kB, 198ms]
[ 'The stored token is: QpwL5tke4Pnpja7X4'
```

	executed	failed
iterations	1	0
requests	2	0
test-scripts	2	0
prerequest-scripts	0	0
assertions	1	0
total run duration: 2.3s		
total data received: 792B (approx)		
average response time: 1088ms [min: 198ms, max: 1978ms, s.d.: 890ms]		

**Pra 6:**

```
C:\MASTER OF COMPUTER APPLICATIONS (MCA)\MCA SEM 3\REST API AND TESTING\Newman>newman run Pra6.postman_collection.json
newman

Pra6

→ Post method
  POST https://reqres.in/api/login [200 OK, 1.08kB, 1793ms]
```

	executed	failed
iterations	1	0
requests	1	0
test-scripts	0	0
prerequisite-scripts	0	0
assertions	0	0
total run duration: 1889ms		
total data received: 29B (approx)		
average response time: 1793ms [min: 1793ms, max: 1793ms, s.d.: 0µs]		

**Pra 7:**

```
C:\MASTER OF COMPUTER APPLICATIONS (MCA)\MCA SEM 3\REST API AND TESTING\Newman>newman run Lab7.postman_collection.json
newman

Lab7

□ Folder-level Authorization
  ↳ Post
    POST https://reqres.in/api/login [201 Created, 1.16kB, 1964ms]

→ Get
  GET https://reqres.in/api/users/2 [200 OK, 1.49kB, 207ms]
```

	executed	failed
iterations	1	0
requests	2	0
test-scripts	2	0
prerequisite-scripts	2	0
assertions	0	0
total run duration: 2.4s		
total data received: 442B (approx)		
average response time: 1085ms [min: 207ms, max: 1964ms, s.d.: 878ms]		

**9. Write a RestAssured program of simple GET, POST,PUT and DELETE request.**

-&gt;

**GET :**

```
package pra9;
import io.restassured.RestAssured;
import io.restassured.response.Response;
import org.testng.annotations.*;
public class Pra9 {
    public static void main(String[] args) {
        RestAssured.baseURI = "https://jsonplaceholder.typicode.com";

        Response response =
            given().when()
                .get("/posts")
                .then()
                .statusCode(200)
                .extract().response();

        System.out.println("Response: " + response.asString());

    }

    private static RestAssured given() {
        return null;
    }
}
```

**Output :**

```
<terminated> Pra9 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (28-Nov-2024, 9:25:04 pm - 9:25:14 pm) [pid: 15700]
Response: [
  {
    "userId": 1,
    "id": 1,
    "title": "sunt aut facere repellat provident occaecati excepturi optio reprehenderit",
    "body": "quia et suscipit\nsuscipit recusandae consequuntur expedita et cum\nreprehenderit molestiae ut ut quas totam\nnostr
  },
  {
    "userId": 1,
    "id": 2,
    "title": "qui est esse",
    "body": "est rerum tempore vitae\nsequi sint nihil reprehenderit dolor beatae ea dolores neque\nfugiat blanditiis voluptate
  },
  {

```

**POST :**

//POST

```
RestAssured.baseURI = "https://jsonplaceholder.typicode.com";
```

```
// Send POST request with the body directly under given()
```

```
Response response = given()
```

```
    .contentType(ContentType.JSON)
```

```
    .body("{\n" +
```

```
        "  \"title\": \"New Post Title\", \n" +
```

```
        "  \"body\": \"This is the body of the new post\", \n" +
```

```
        "  \"userId\": 1\n" +
```

```
        "}")
```

```
    .when()
```

```
    .post("/posts")
```

```
    .then()
```

```
    .statusCode(201)
```

```
    .body("title", equalTo("New Post Title"))
```

```
    .extract().response();
```

```
System.out.println("Response: " + response.asString());
```

**Output:**

```
<terminated> Pra9 [Java Application] C:\Program Files\Java\jdk-17
{"title": "New Post Title",
"body": "This is the body of the new post",
"userId": 1,
"id": 101
}
```

**PUT :**

```
RestAssured.baseURI = "https://jsonplaceholder.typicode.com";
```

```
Response response = given()
```

```
    .contentType(ContentType.JSON) // Set content type as JSON
```

```
    .body("{\n" +
```

```
        " \"id\": 1,\n"        " \"title\": \"New title\",\n"        " \"body\": \"New Body\",\n"        " \"userId\": 1\n"      "}")\n    .when()\n    .put("/posts/1")\n    .then()\n    .statusCode(200)\n    .extract().response();
```

```
System.out.println("Response: " + response.asString());
```

### Output :

```
<terminated> Pra9 [Java Application]
{"id": 1,
 "title": "New title",
 "body": "New Body",
 "userId": 1
}
```

### DELETE :

```
RestAssured.baseURI = "https://jsonplaceholder.typicode.com";
```

```
        Response response = given()\n    .when()\n    .delete("/posts/1")\n    .then()\n    .statusCode(200)\n    .extract().response();\n        System.out.println("Response: " + response.asString());\n        System.out.println("Delete Successfully");
```

### Output:

```
<terminated> Pra9 [Java Application] C
Response: {}
Delete Successfully
```