**Rahul Nagar -showoff.ie (Docs)**

**5 endpoints selected and tested** implemented Cucumber -BDD framework in Java using MAVEN

**BaseURL: https://showoff-rails-react-production.herokuapp.com**

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| --- | --- | --- | --- |
| Tag | Module | Request (HTTP Method) | Endpoints |
| 1. | **Authentication** | **POST -Create token** | https://showoff-rails-react-production.herokuapp.com/oauth/token |
| 2. | **Authentication** | **POST -Revoke token** | https://showoff-rails-react-production.herokuapp.com/oauth/revoke |
| 3. | **Users->Widgets** | **POST-Create User** | https://showoff-rails-react-production.herokuapp.com/api/v1/users |
| 4. | **Users->Widgets** | **GET-Check Email** |  |
| 5. | **Users->Widgets** | **POST-Reset Password** | https://showoff-rails-react-production.herokuapp.com/api/v1/users/reset\_password |

**API Test Actions**

Each test is comprised of test actions. These are the individual actions a test needs to take per API test flow. For each API request, the test would need to take the following actions:

**1. Verify correct HTTP status code.** For example, creating a resource should return 201 CREATED and unpermitted requests should return 403 FORBIDDEN, etc.

**2. Verify response payload.**Check valid JSON body and correct field names, types, and values — including in error responses.

I have implemented **Cucumber -Maven BDD framework** in Java for testing, framework consists of

1. **MAVEN project implemented- using pom.xml file**
2. Used **RESTASSURED** lib for http request & response
3. **Features file (Gherkins)**
4. **Step Definitions file**
5. **Enum class** for passing method and constant endpoint in one java class
6. Generated **Payload for POST request** and pass it into the body
7. Generate **Logging file** which is used to refer any failure of script
8. Define **Hooks of the Cucumber to run the BeforeScenario** test cases (Create user before getting user)
9. **POJO** -Page Object Class define in which describes about the each JSON payload passing to the steps in the file
10. Generate Excellent **Cucumber Report** for the API Testing (add plugin in Runner class)
11. Cucumber-Junit used to run the test

**Description of Endpoints**

1. **POST** : **{BaseURL}/**[**oauth/token**](https://showoff-rails-react-production.herokuapp.com/oauth/token)

This endpoint is used to generate the token for the User by using user name, password , client id and secret key

***Token Payload***

{

"grant\_type": "password",

"client\_id": "277ef29692f9a70d511415dc60592daf4cf2c6f6552d3e1b769924b2f2e2e6fe",

"client\_secret": "d6106f26e8ff5b749a606a1fba557f44eb3dca8f48596847770beb9b643ea352",

"username": "michael-61@showoff.ie",

"password": "password"

}

1. **POST**: [**{BaseURL}/**oauth/revoke](https://showoff-rails-react-production.herokuapp.com/oauth/revoke)

This endpoint is used to reveal the token by passing the generated token id from the above endpoint

***Revoke Payload***

{

"token":"42eaddaa5ce0d26bf2f29002fe87d64268188f5d86070901d9a7897478b91a0d"

}

1. **POST**: **{BaseURL}/**[api/v1/users](https://showoff-rails-react-production.herokuapp.com/api/v1/users)

This endpoint is used to add new user to the application.

**Create User Payload**

{

"client\_id": "277ef29692f9a70d511415dc60592daf4cf2c6f6552d3e1b769924b2f2e2e6fe",

"client\_secret": "d6106f26e8ff5b749a606a1fba557f44eb3dca8f48596847770beb9b643ea352",

"user": {

"first\_name": "A",

"last\_name": "User",

"password": "password",

"email": "michael-61@showoff.ie",

"image\_url": "https://static.thenounproject.com/png/961-200.png"

}

}

1. **GET**: [**{BaseURL}**/api/v1/users/email?email=test@showoff.ie&client\_id=277ef29692f9a70d511415dc60592daf4cf2c6f6552d3e1b769924b2f2e2e6fe&client\_secret=d6106f26e8ff5b749a606a1fba557f44eb3dca8f48596847770beb9b643ea352](mailto:%7bBaseURL%7d/api/v1/users/email?email=test@showoff.ie&client_id=277ef29692f9a70d511415dc60592daf4cf2c6f6552d3e1b769924b2f2e2e6fe&client_secret=d6106f26e8ff5b749a606a1fba557f44eb3dca8f48596847770beb9b643ea352)

This endpoint is used to reveal the user by registered email

1. **POST**: **{BaseURL}/**api/v1/users/reset\_password

This endpoint used to reset the password of the registered user only

**Reset Payload**

{

"user" : {

"email" : "michael-61@showoff.ie"

},

"client\_id": "277ef29692f9a70d511415dc60592daf4cf2c6f6552d3e1b769924b2f2e2e6fe",

"client\_secret": "d6106f26e8ff5b749a606a1fba557f44eb3dca8f48596847770beb9b643ea352"

}

|  |  |
| --- | --- |
| Request (HTTP Method) | Endpoints |
| POST/ oauth/token | **Create a new token** |
| POST / oauth/revoke | **Revoke Create token** |
| POST//api/v1/users | **Create new user** |
| GET/ api/v1/users/email?email={{email}}&client\_id={{client\_id}}&client\_secret={{client\_secret}} | **Get user by email** |
| POST/ api/v1/users/reset\_password | **Reset Password for registered user** |