

Interactive 3D Virtual Tour API

Compiling:

Download the codebase and use the following commands to compile using MVN:

1. Unzip the folder
2. Go to the root of the folder
3. Open **CMD** in the folder
4. Type **mvn compile** to compile the api
5. Package the project with command **mvn clean package**

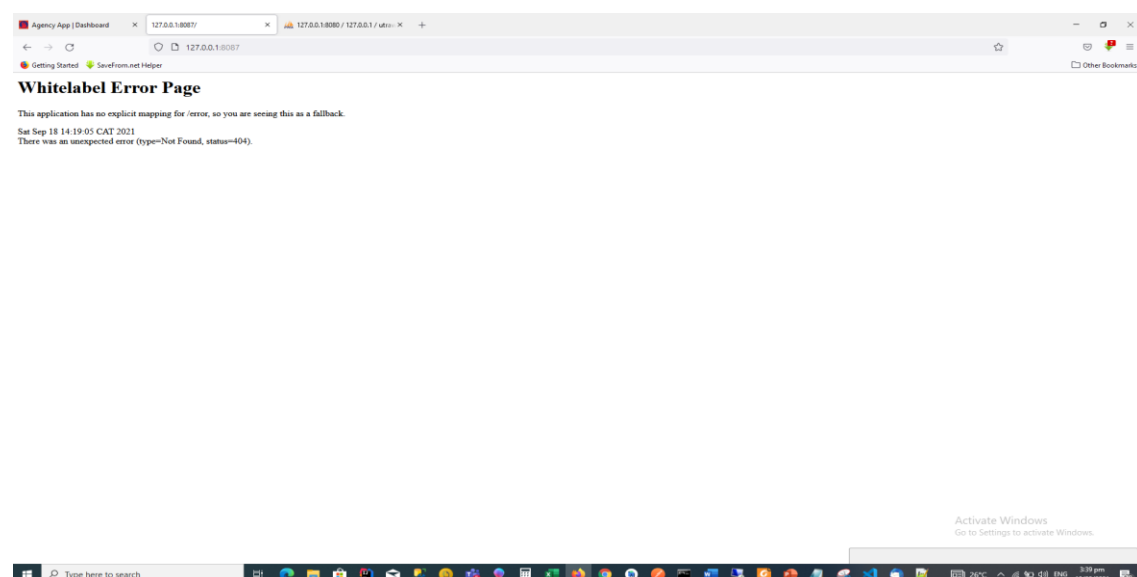
This will create jar file in **/target** folder

Run API:

To run the API, do the following

1. Copy **application.properties** file & open with editor
2. Change database details accordingly
3. Save the file
4. Open **CMD**
5. Type **java -jar interactive3dvirtualtours{version}-SNAPSHOT.jar**

To verify if the API is up: Go to a browser and type: <http://127.0.0.1:8089/> and get the following:



TEST API WITH POSTMANE:

Endpoint	Request Type	Description
/register	GET	Generate token
/register	POST	Add a registered member or edit existing member

Endpoint: /register (GET)

Sample Request

The image shows the Postman application interface. At the top, there's a list of recent requests. Below that, the main workspace shows a GET request to the endpoint `http://127.0.0.1:8087/register`. The request is configured with the method 'GET' and the URL. The response is displayed in the 'Body' tab, showing a JSON array of 12 objects. Each object contains 'id', 'firstname', 'surname', and 'email' fields. The response status is '200 OK' with a time of '11 ms' and a size of '810 B'.

```
1 {
2   {
3     "id": 1,
4     "firstname": "Grace",
5     "surname": "Mhango",
6     "email": "gchirwa.icorp.com"
7   },
8   {
9     "id": 2,
10    "firstname": "Makhali",
11    "surname": "Mang'anya",
12    "email": "makhali.manganya.ultrawerks@gmail.com"
13  },
14  {
15    "id": 4,
16    "firstname": "Elliam",
17    "surname": "Mkandawire",
18    "email": "Elliam B Mkandawire"
19  },
20  {
21    "id": 10,
22    "firstname": "Grace",
23    "surname": "Mhango",
24    "email": "gchirwa.icorp.com"
25  },
26  {
27    "id": 11,
28    "firstname": "Grace",
29    "surname": "Mhango",
30    "email": "gchirwa.icorp.com"
31  },
32  {
33    "id": 12,
34    "firstname": "Grace",
```

Sample Request for /request (POST)

POST NEW (Because ID is auto, to post new, don't include it)

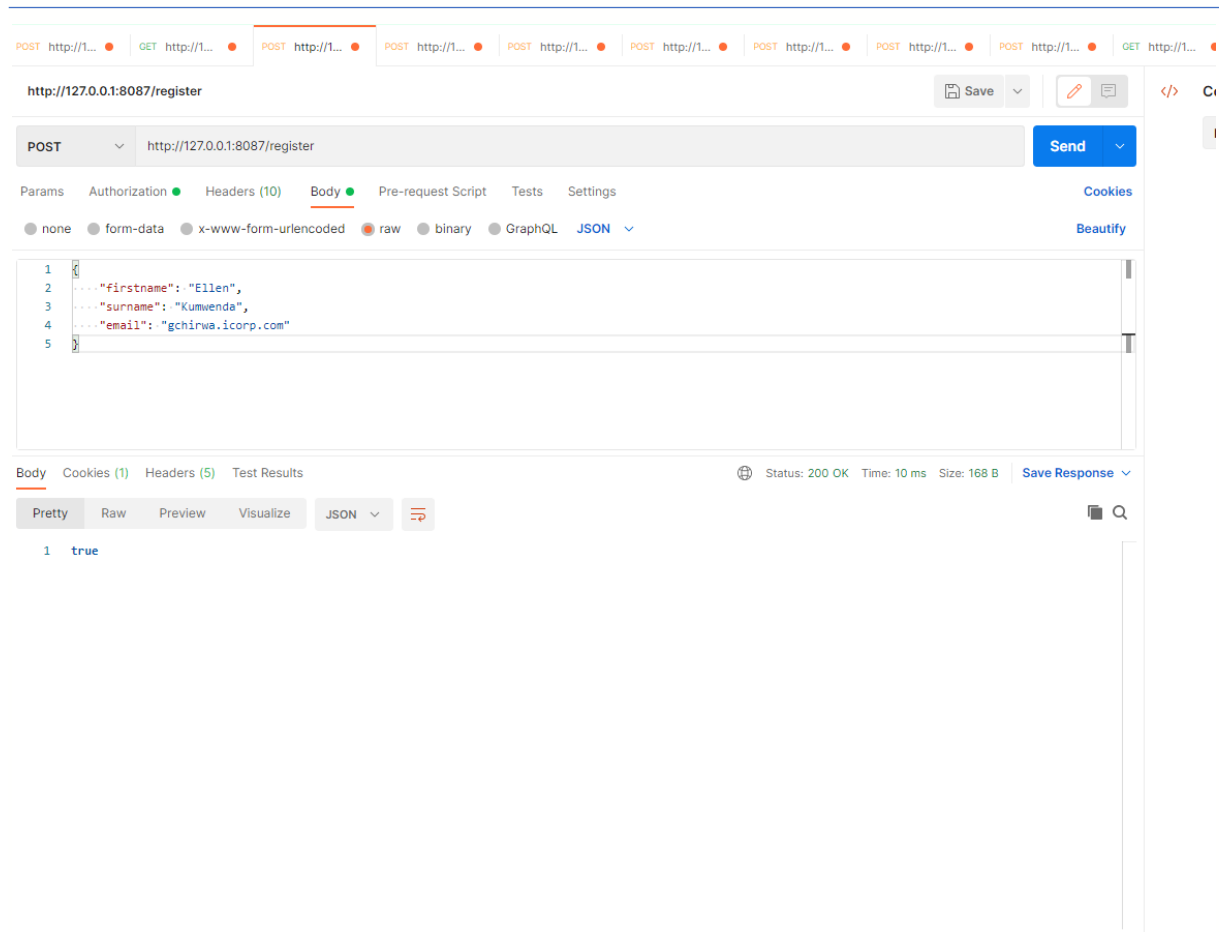


Figure 1: response is true when added successfully or n false if not added

EDIT REGISTERED MEMBER (To edit, you add the id and post to the same endpoint)

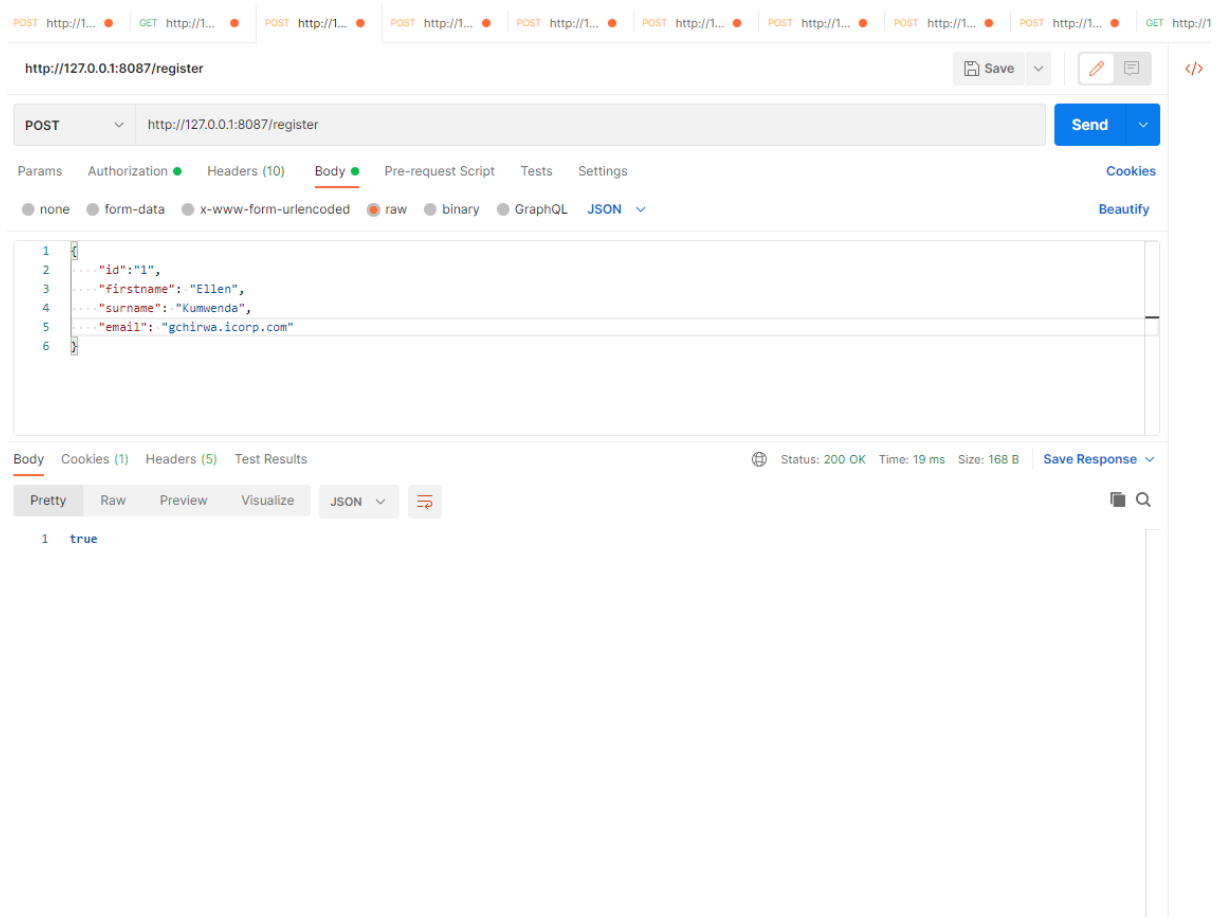


Figure 2: response is true if edited successfully or false otherwise