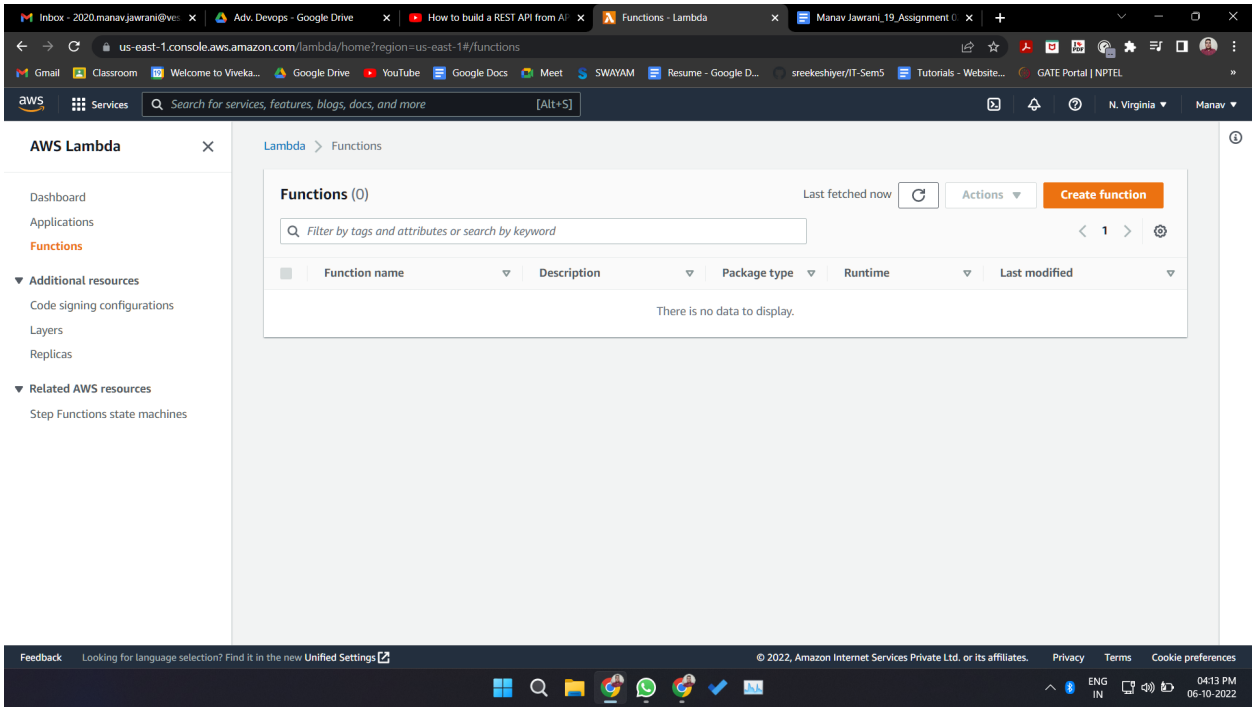
Name: Manav Jawrani
Roll No.: 19
Subject: Advanced DevOps
Assignment No.: 2

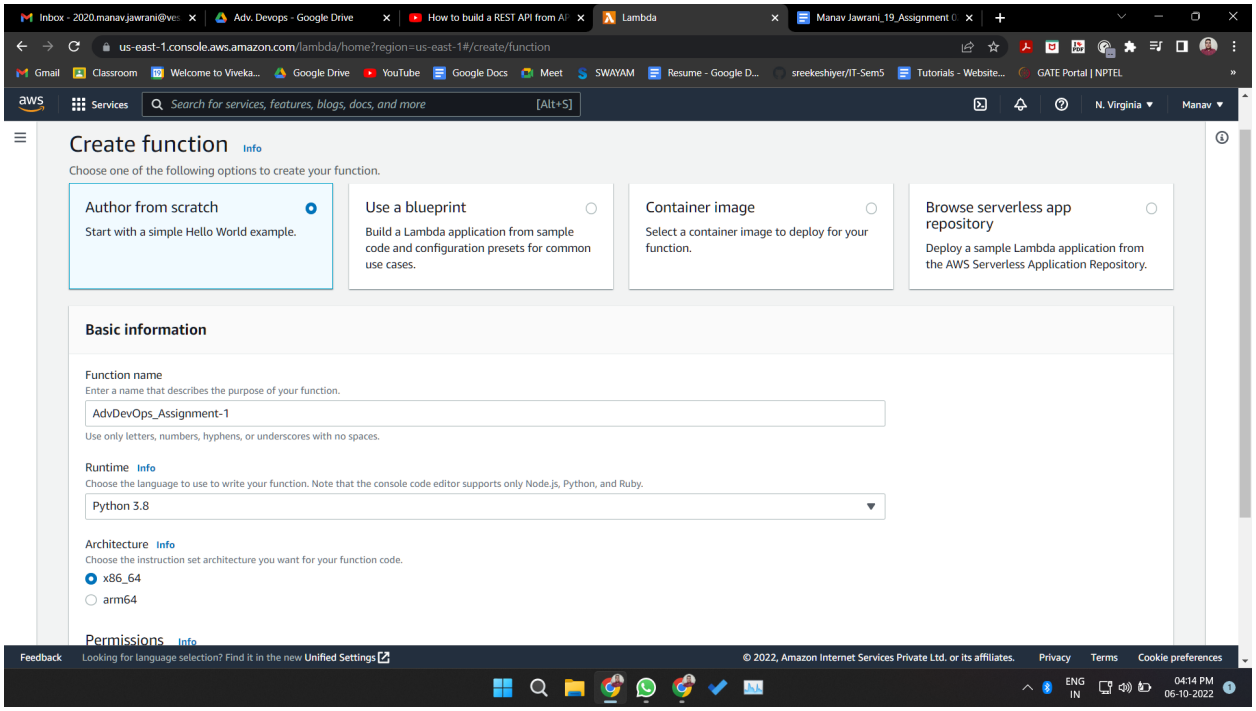
Implementation:

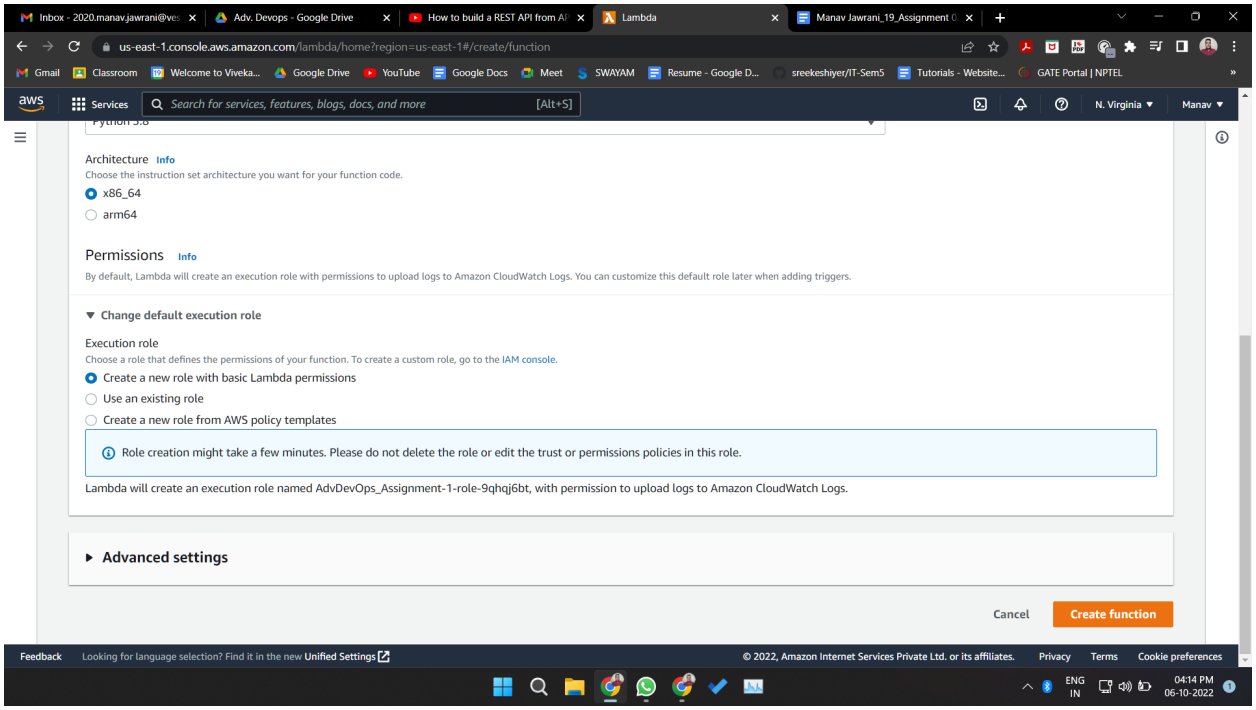
Prerequisites: AWS Free Tier account

Step 1: Login to your AWS Account and the Lambda Function Console.

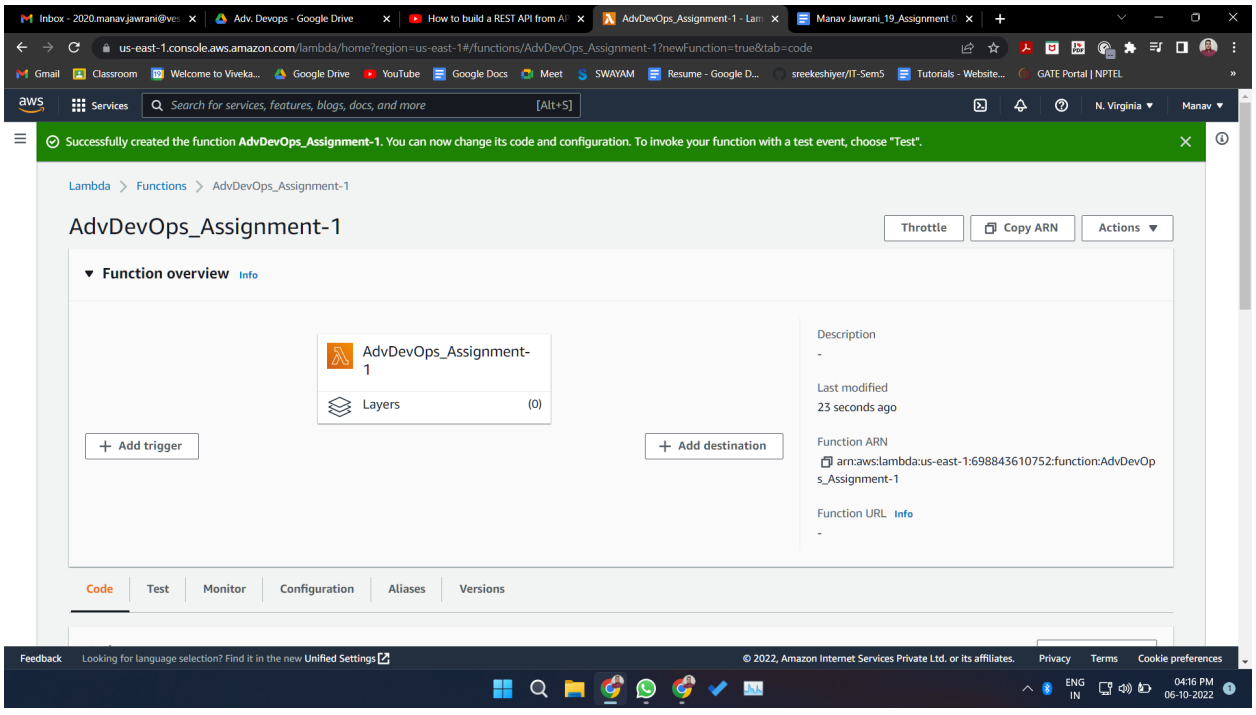


Step 2: Create an AWS Lambda function with runtime as Python 3.8.





Then click on **"Create Function"**

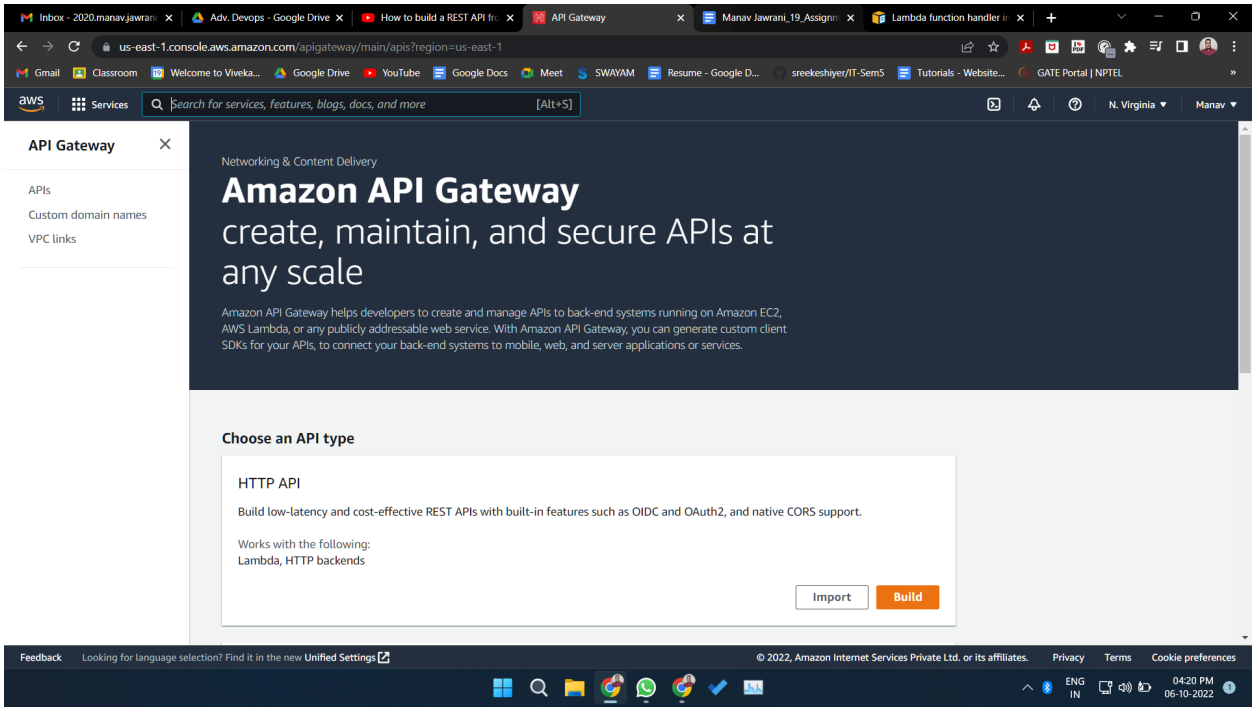


Step 3: Write the code for the handler which will be invoked after input from the user and save it.

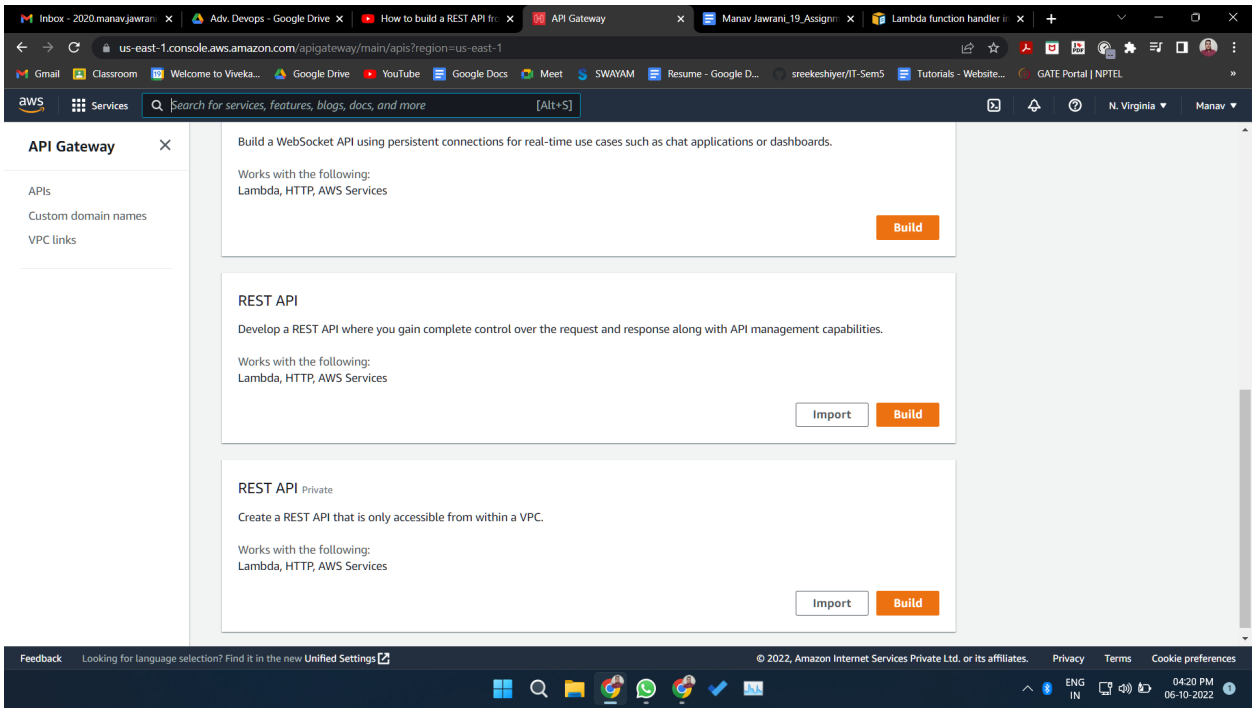
lambda_function

```python
import json

def lambda_handler(event, context):
    # TODO implement
    first_name = event["queryStringParameters"]['first_name']
    last_name = event["queryStringParameters"]['last_name']

    app_response = {}

    app_response['message']= f'The details are {first_name} and {last_name}'
    app_response['profession'] = 'Student'
    app_response['age'] = 19


    responseObject = {}
    responseObject['statusCode'] = 200
    responseObject['headers'] = {}
    responseObject['headers']['Content-Type'] = 'application/json'
    responseObject['body'] = json.dumps(app_response)

    return responseObject
```

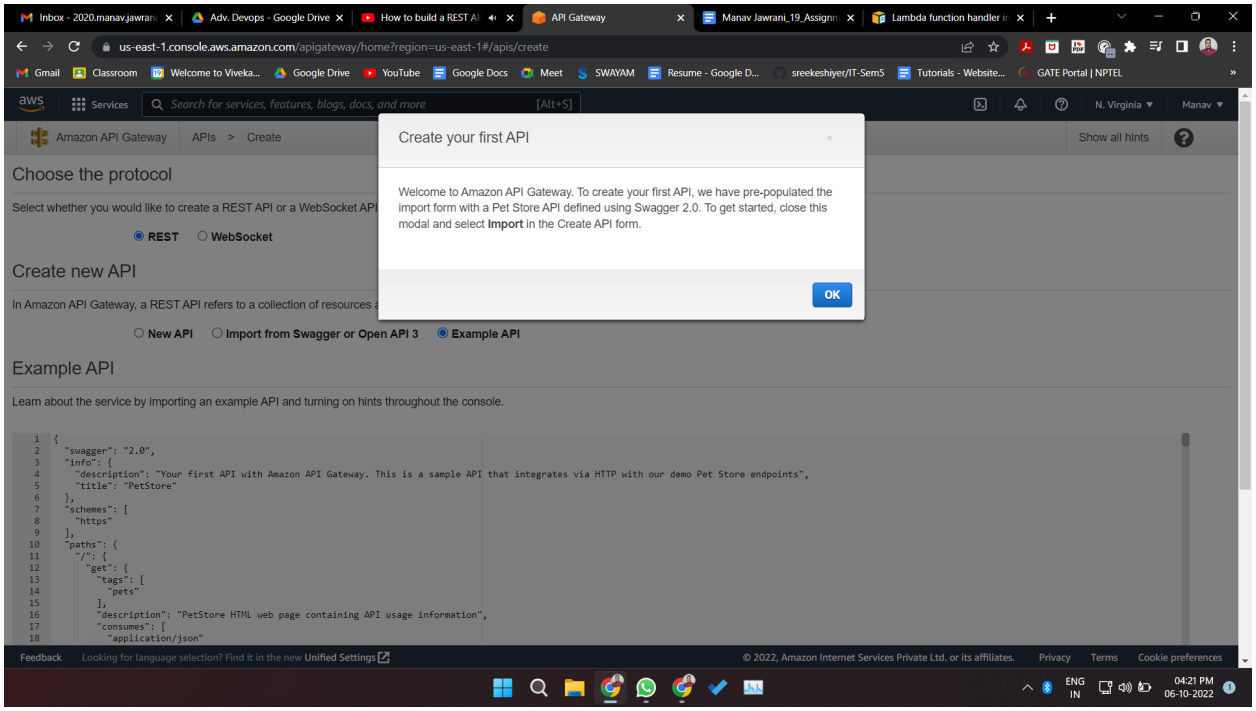
Step 4: Now leave the function as it is and the go to the Amazon API Gateway.



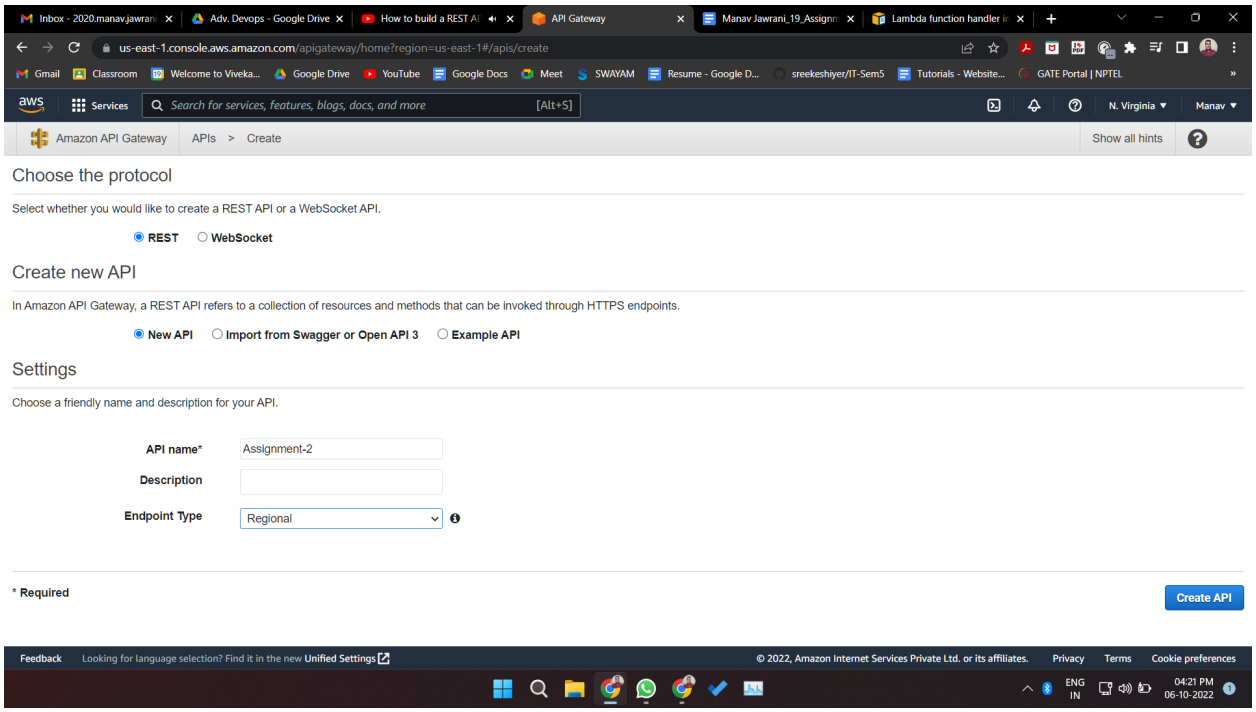
Now look for the REST API and build it



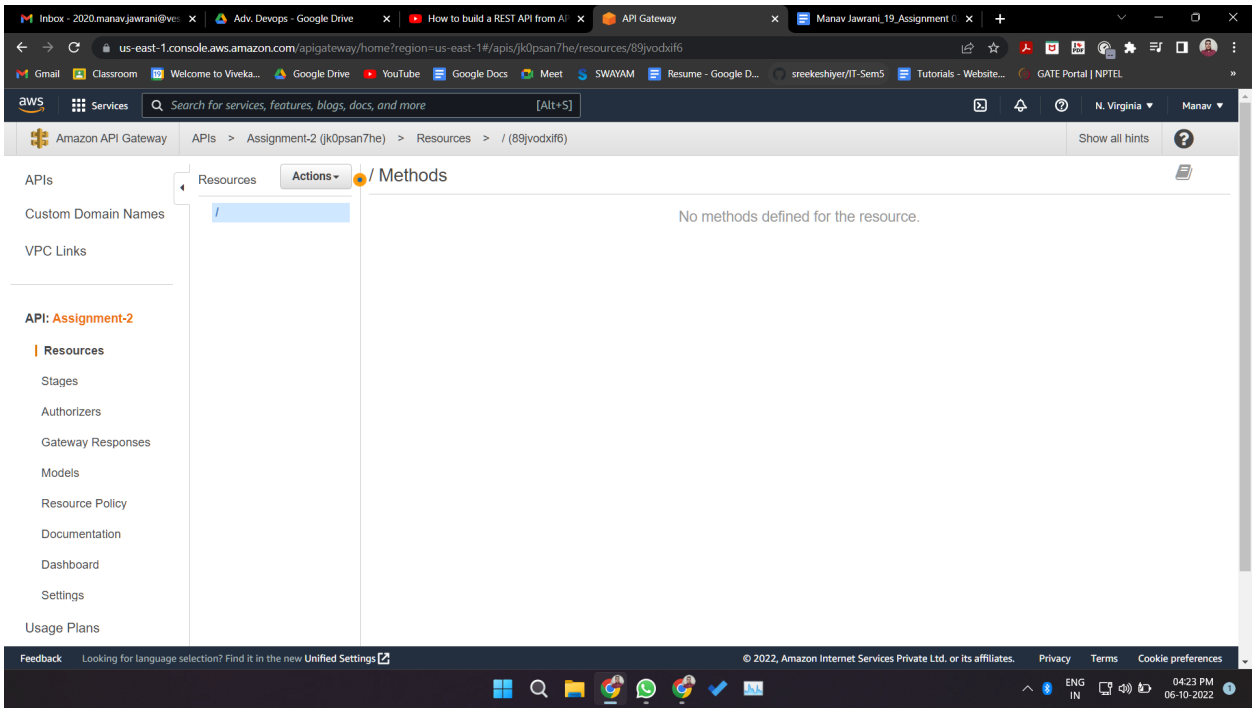
Click on **“Build”.**



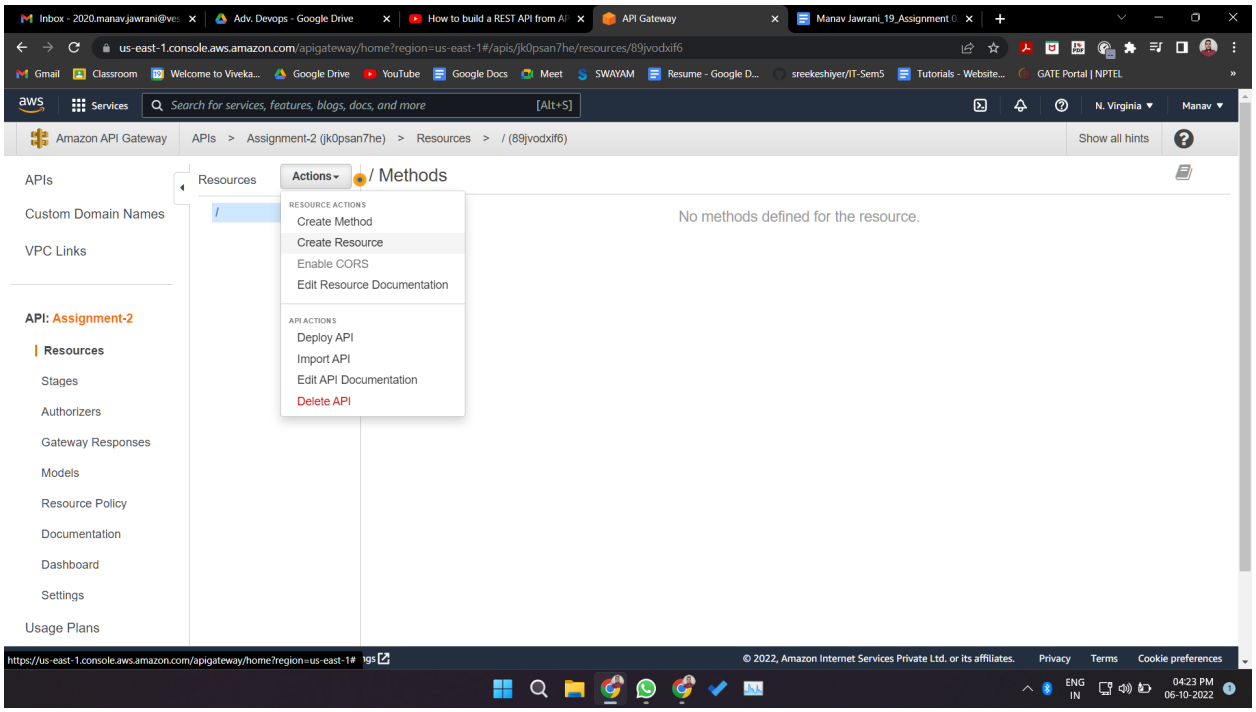
Step 5: You see this type of page choose **“REST”** and **“New API”.** Then click on **“Create API”.**



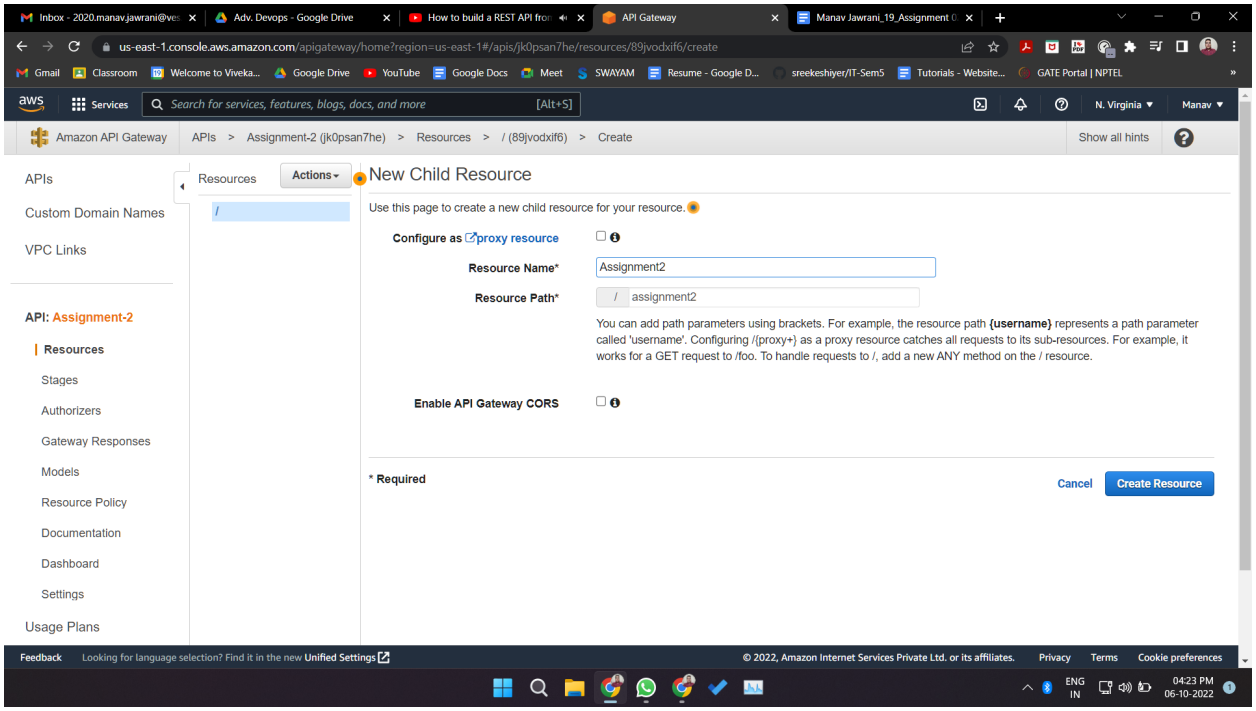
After successful creation you will see this.



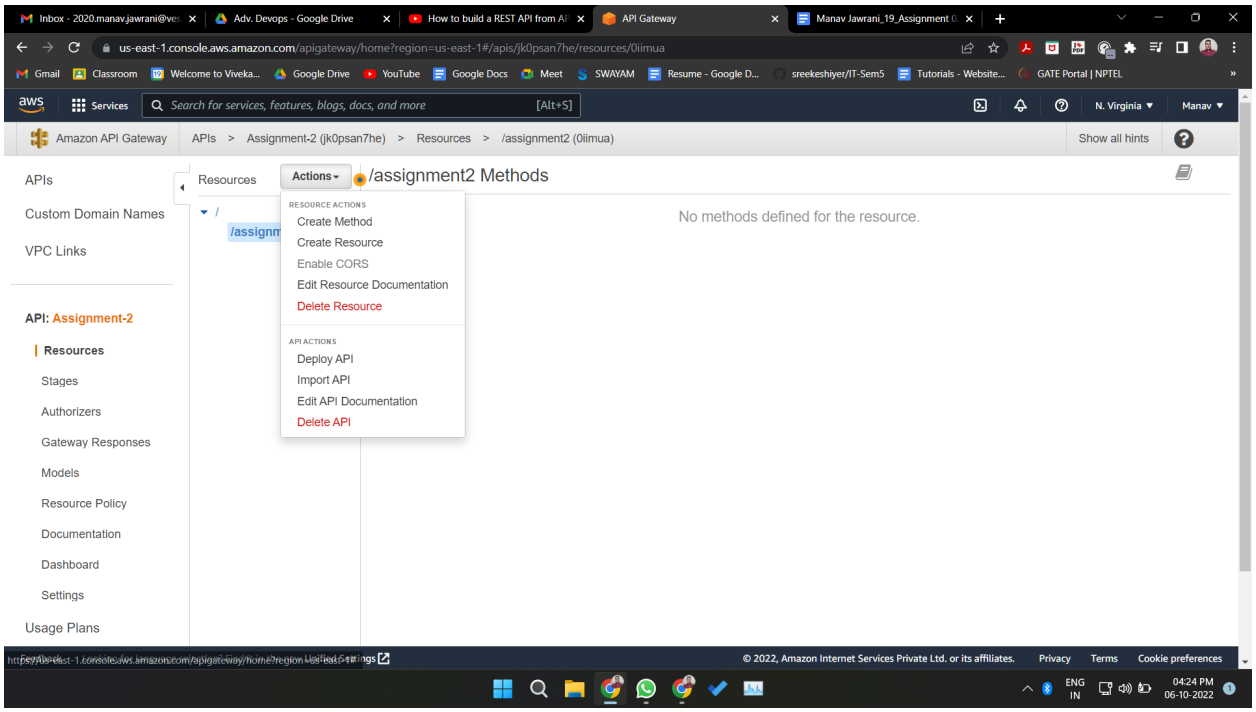
Step 6: Now , under **“Actions”** choose **“Create Resource”.**



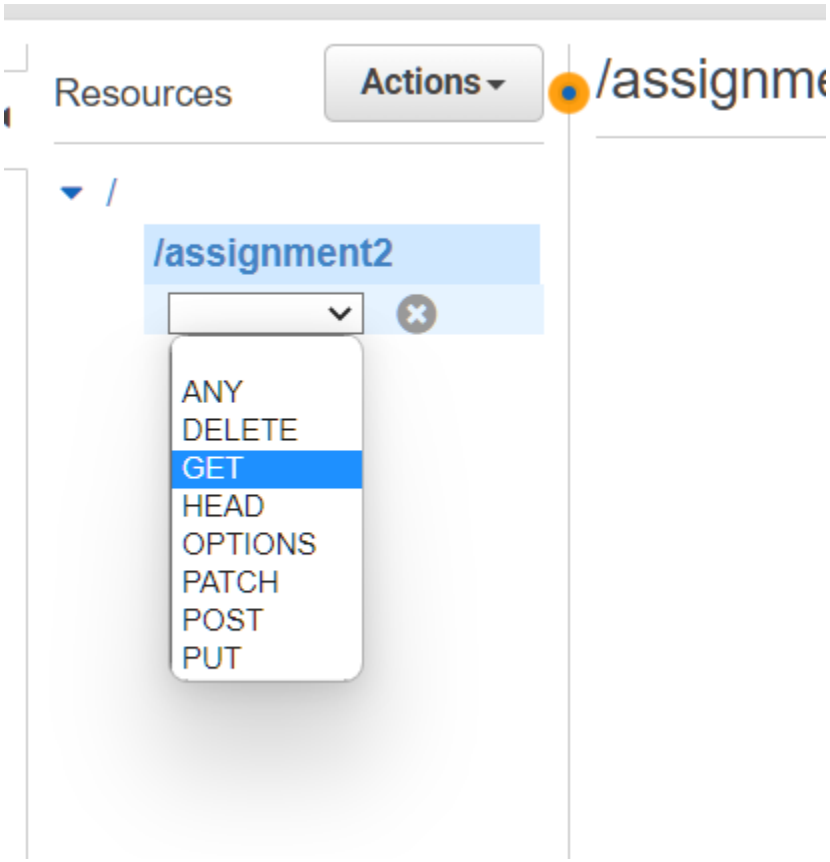
Configure the Resource and the create it.



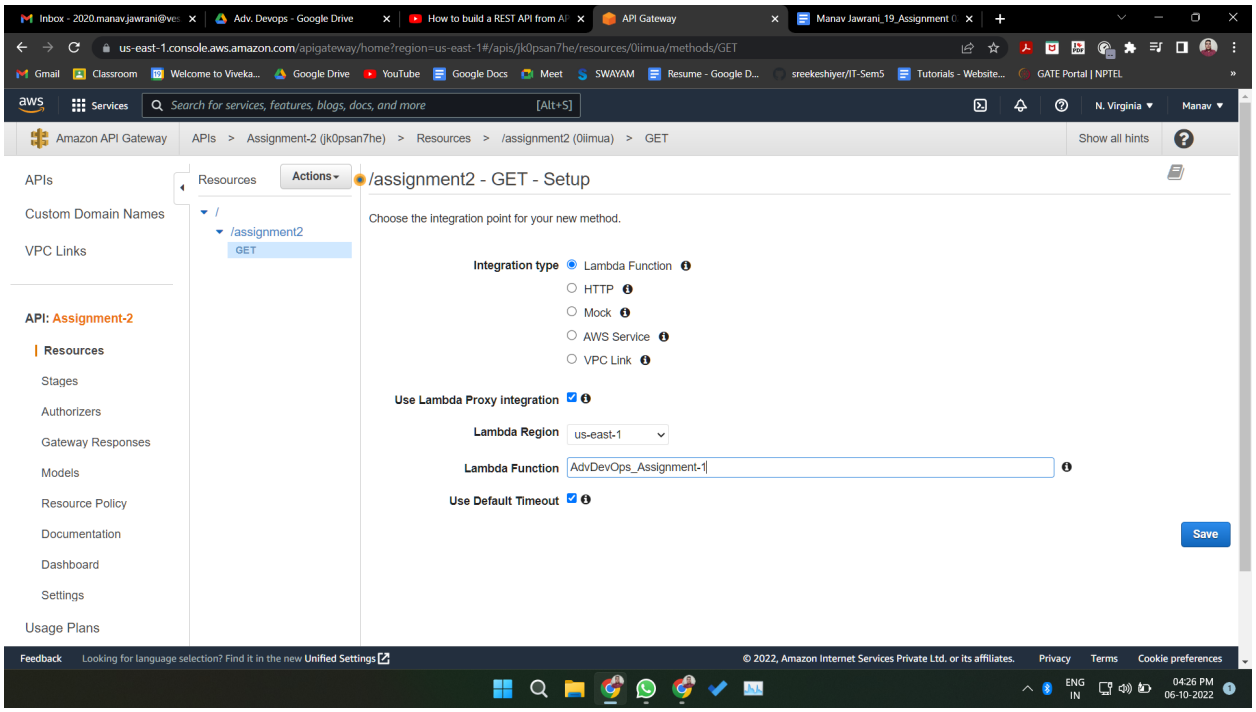
Step 7: Now , under Actions **“Create Method”.**



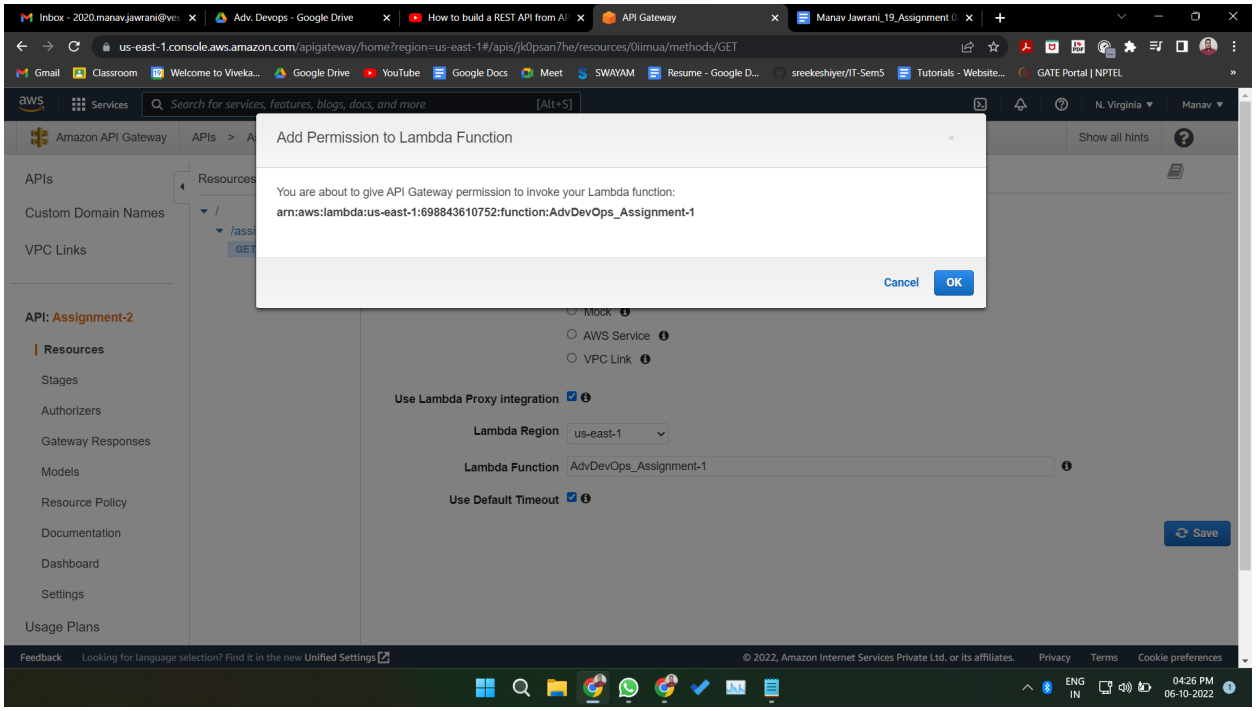
Select **“GET”.**



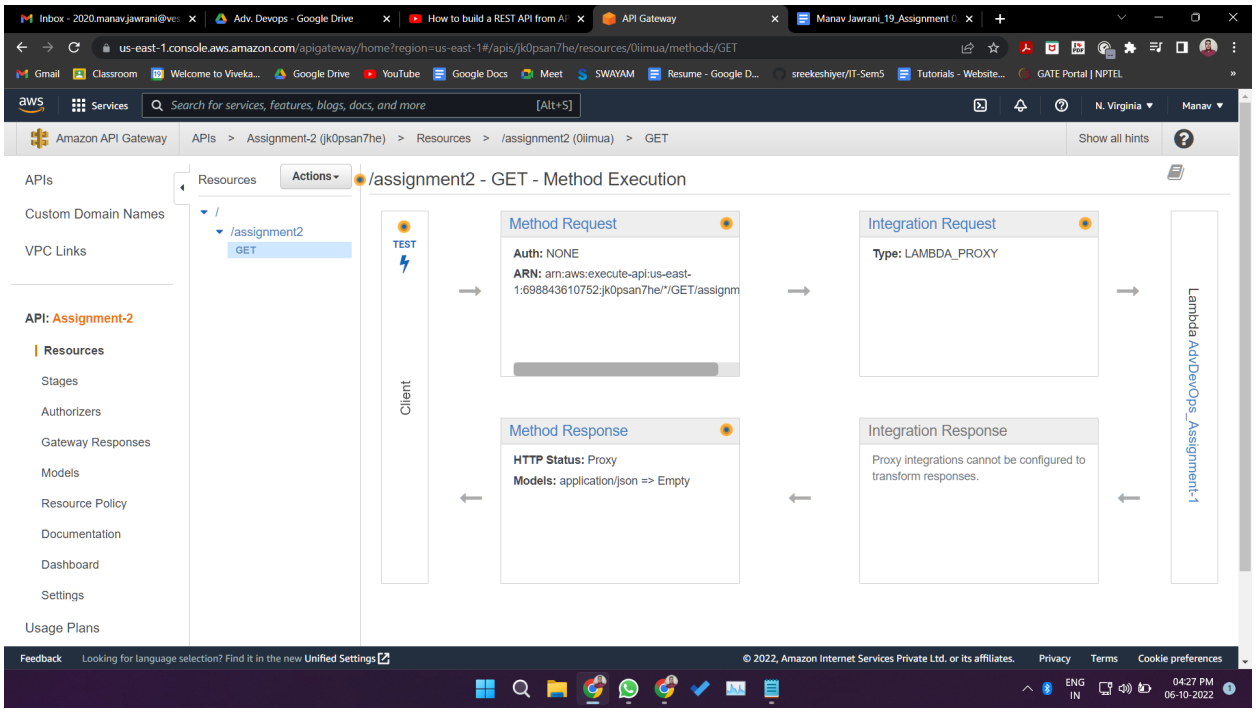
Do the necessary configuration and save it.



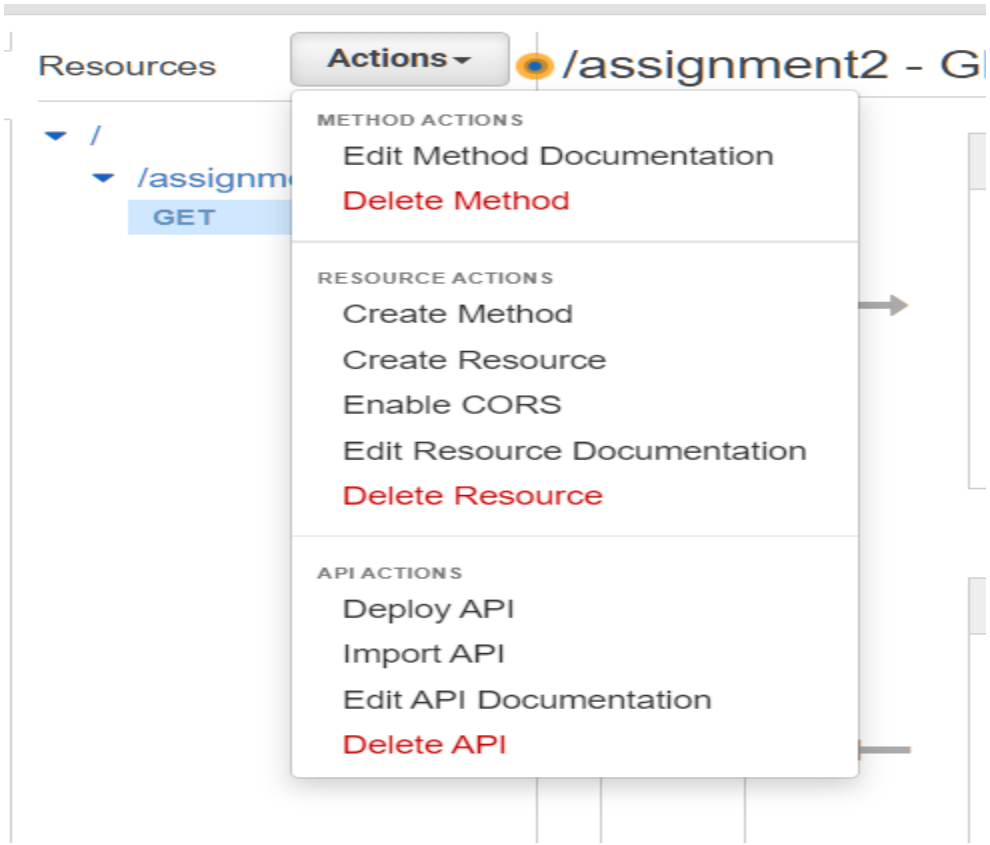
Step 8: Add the Permission of the method which we created previously.



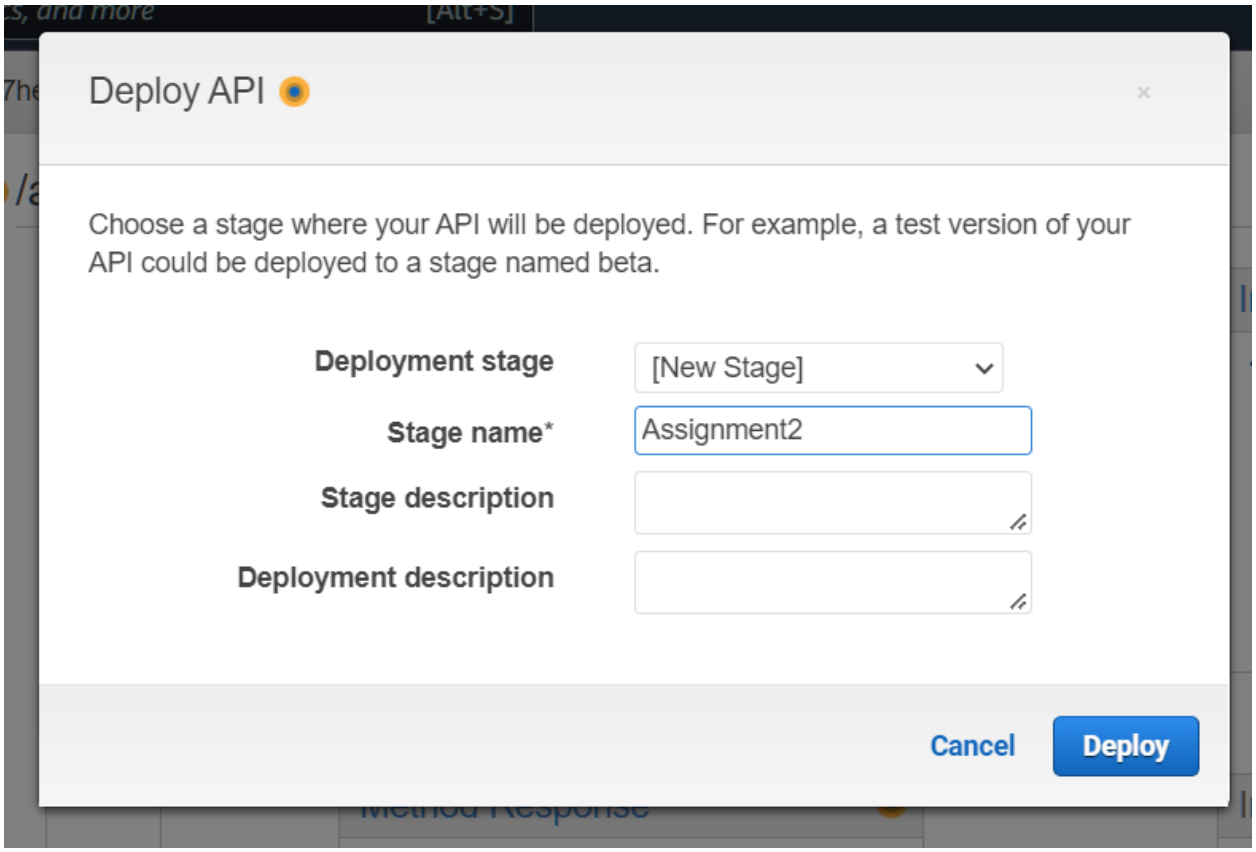
Step 9: After all the steps you are able to see this interface.



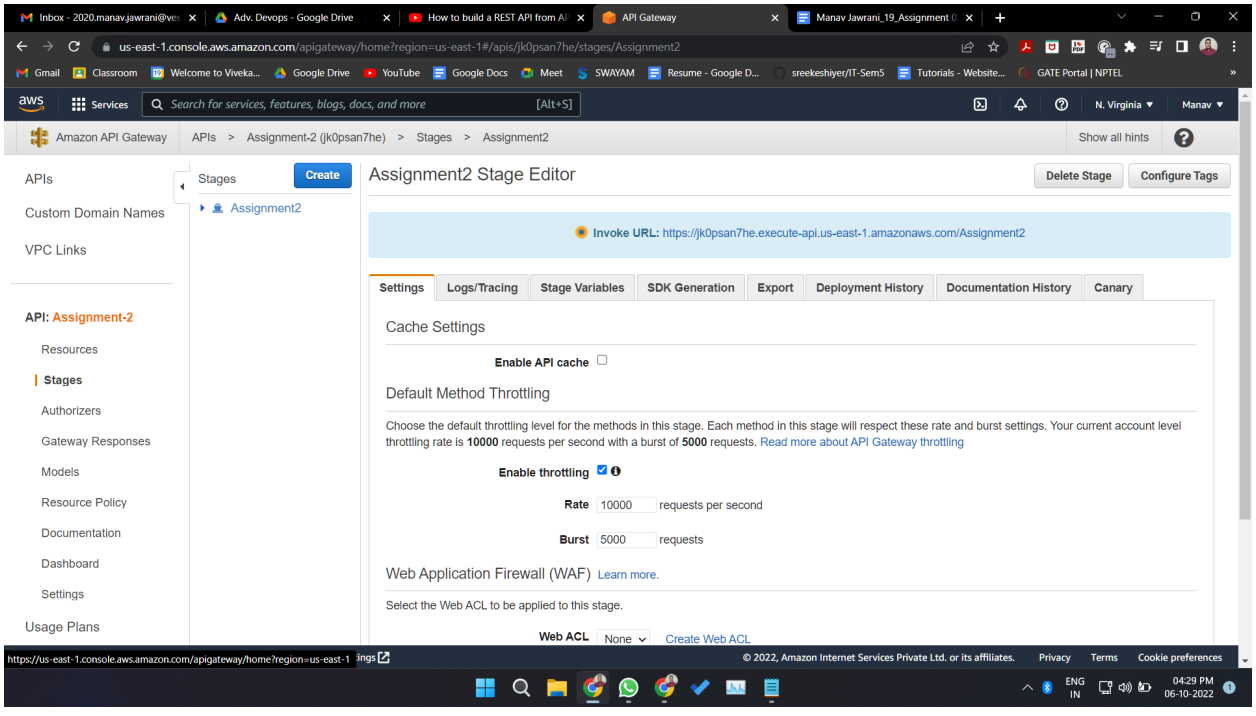
Step 10: Under Actions choose **"Deploy API".**



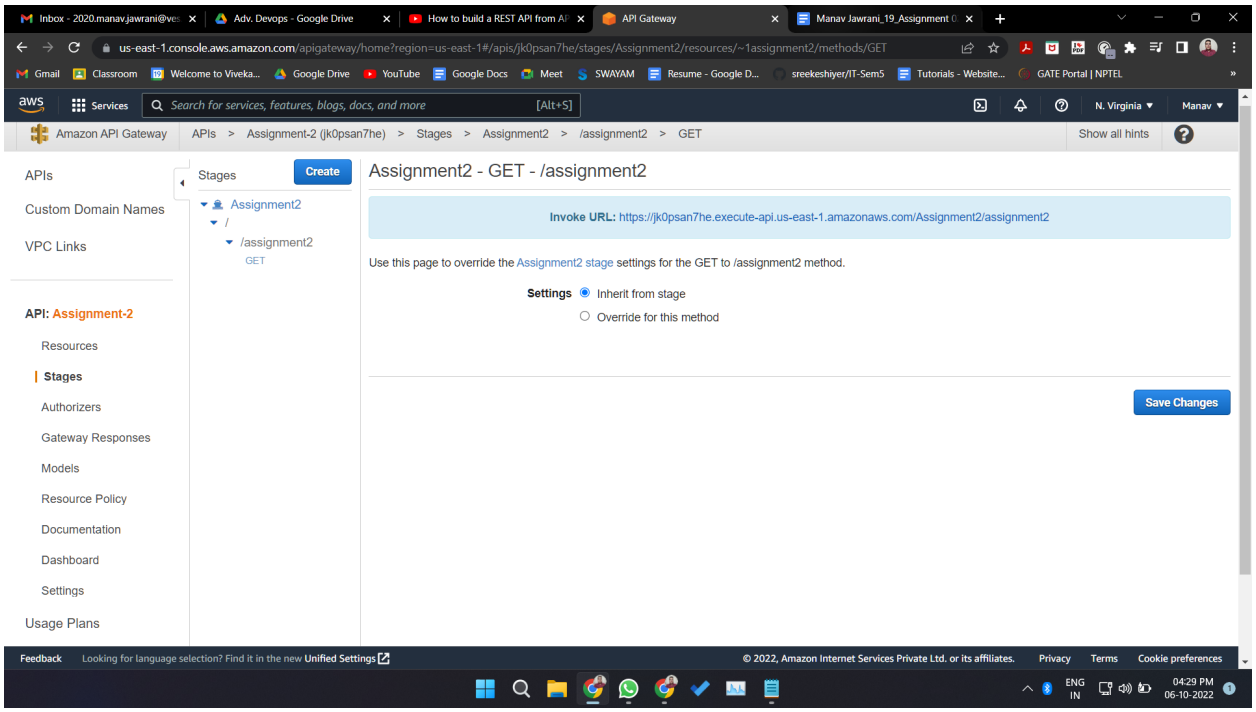
Step 11: Create a new stage and then deploy it.



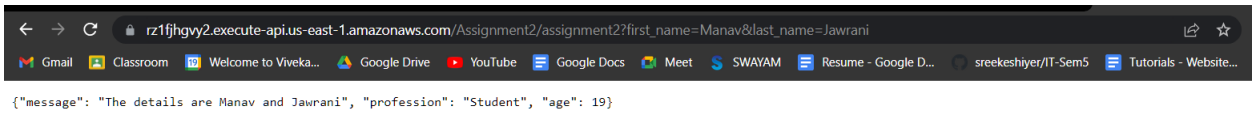
After deployment a link will be shown on the home page of the API.



Step 12: Now the Get Method which created previously you see the link copy that and open in your browser , pass the arguments.



If all goes you will be able to see the output.



{"message": "The details are Manav and Jawrani", "profession": "Student", "age": 19}