2. Creating a Serverless API

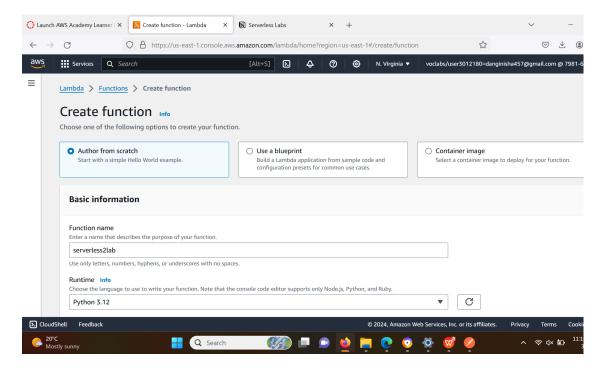
Objective: Develop a serverless API using AWS Lambda and API Gateway. **Approach:**

- **Define API:** Design a simple RESTful API (e.g., for a todo list application).
- Lambda Functions: Create Lambda functions for each API method (GET, POST, PUT, DELETE).
- API Gateway Setup: Use API Gateway to set up the API endpoints, connecting each endpoint to the corresponding Lambda function.
- **Testing:** Test the API using tools like Postman or AWS API Gateway test functionality.

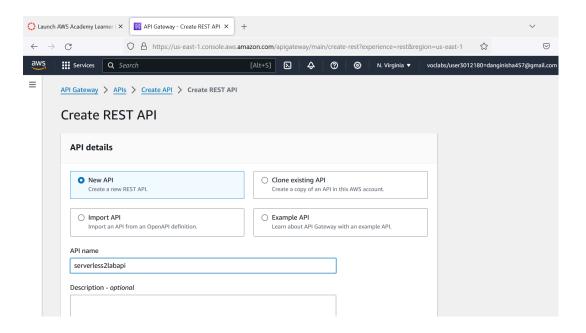
Goal: Gain hands-on experience in building and deploying a serverless API, understanding the integration between Lambda and API Gateway.

Solution:

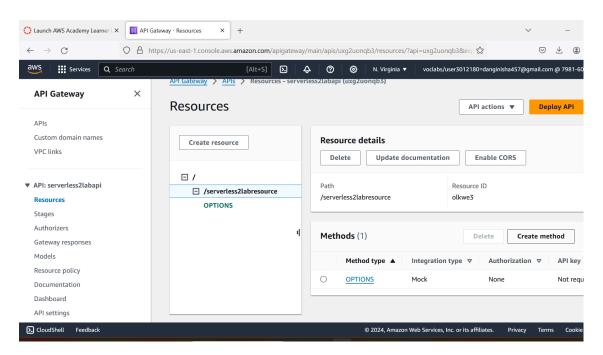
We start by creating a lambda function.

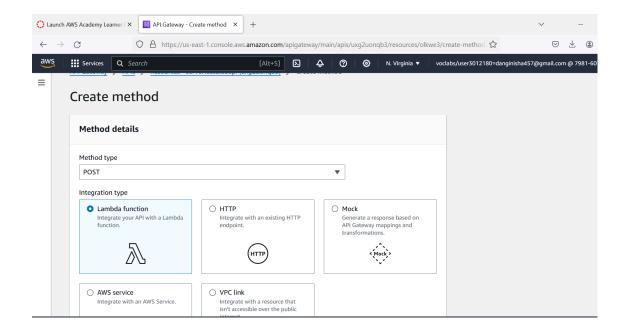


Then, we create a rest api

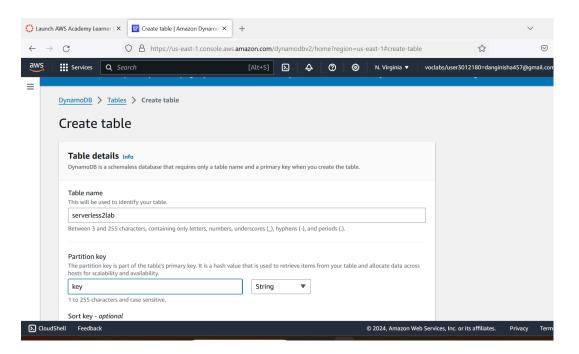


Then, we create a resource and then create a POST method. Likewise, we repeat the same step for POST, GET and PUT.

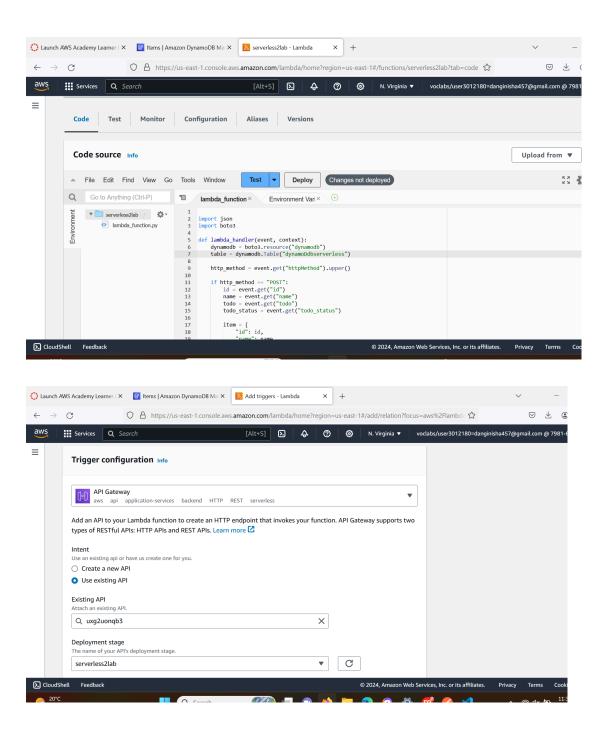




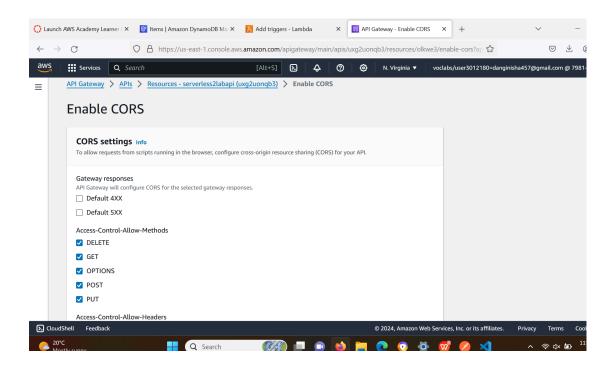
Then, we create a dynamoDB table.



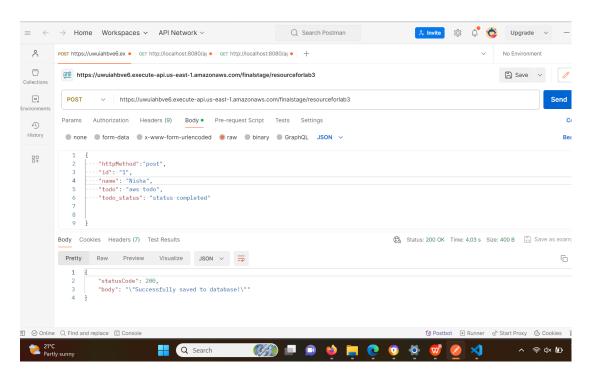
We add a code in the lambda that we created earlier and add trigger to it.



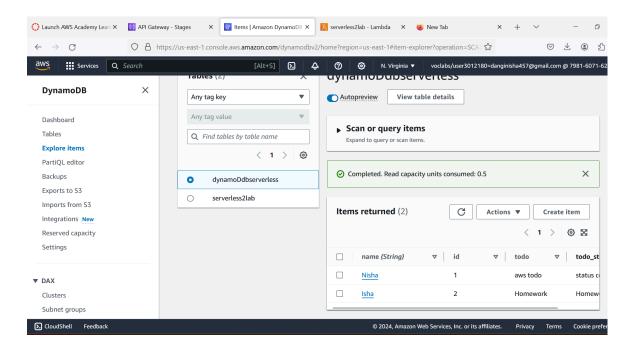
We enable CORS for all the methods.



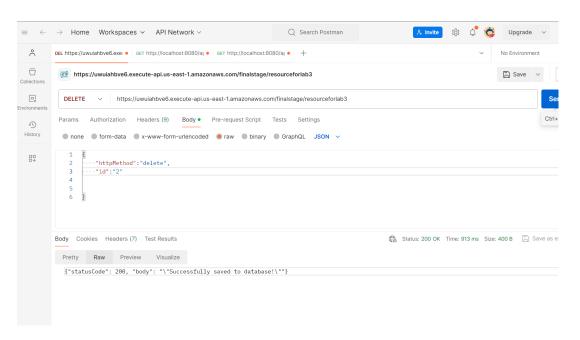
In postman api we make a post request



We can see that two items have been added in dynamoDB.



We send DELETE request



Item with id =2 has been removed.

