2. Creating a Serverless API

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

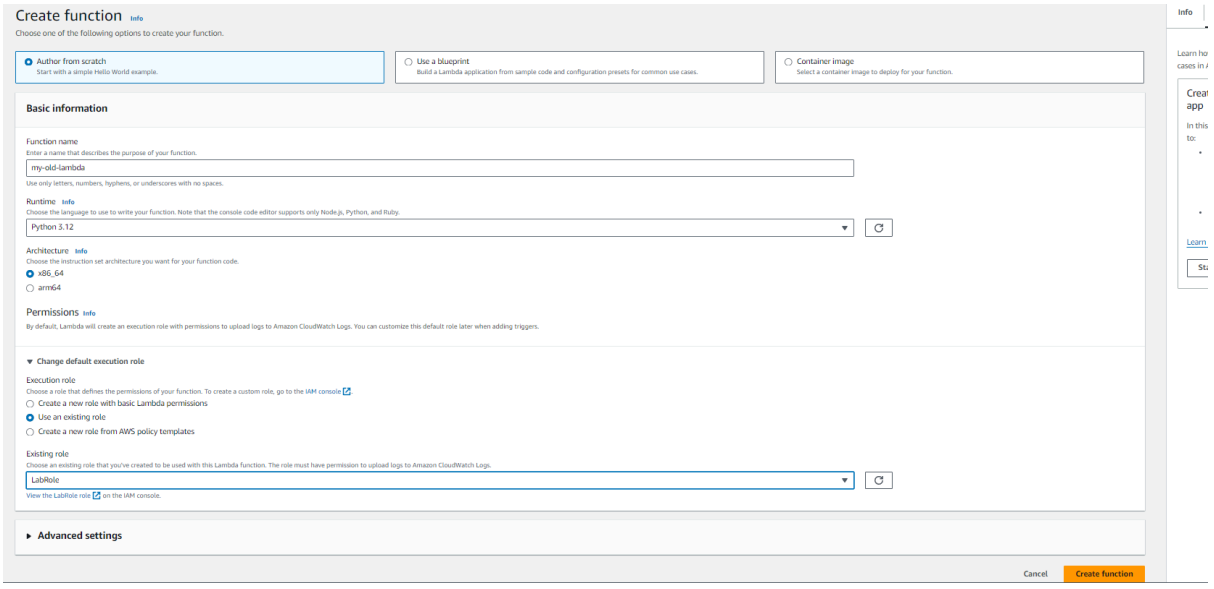
Approach:

- **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.

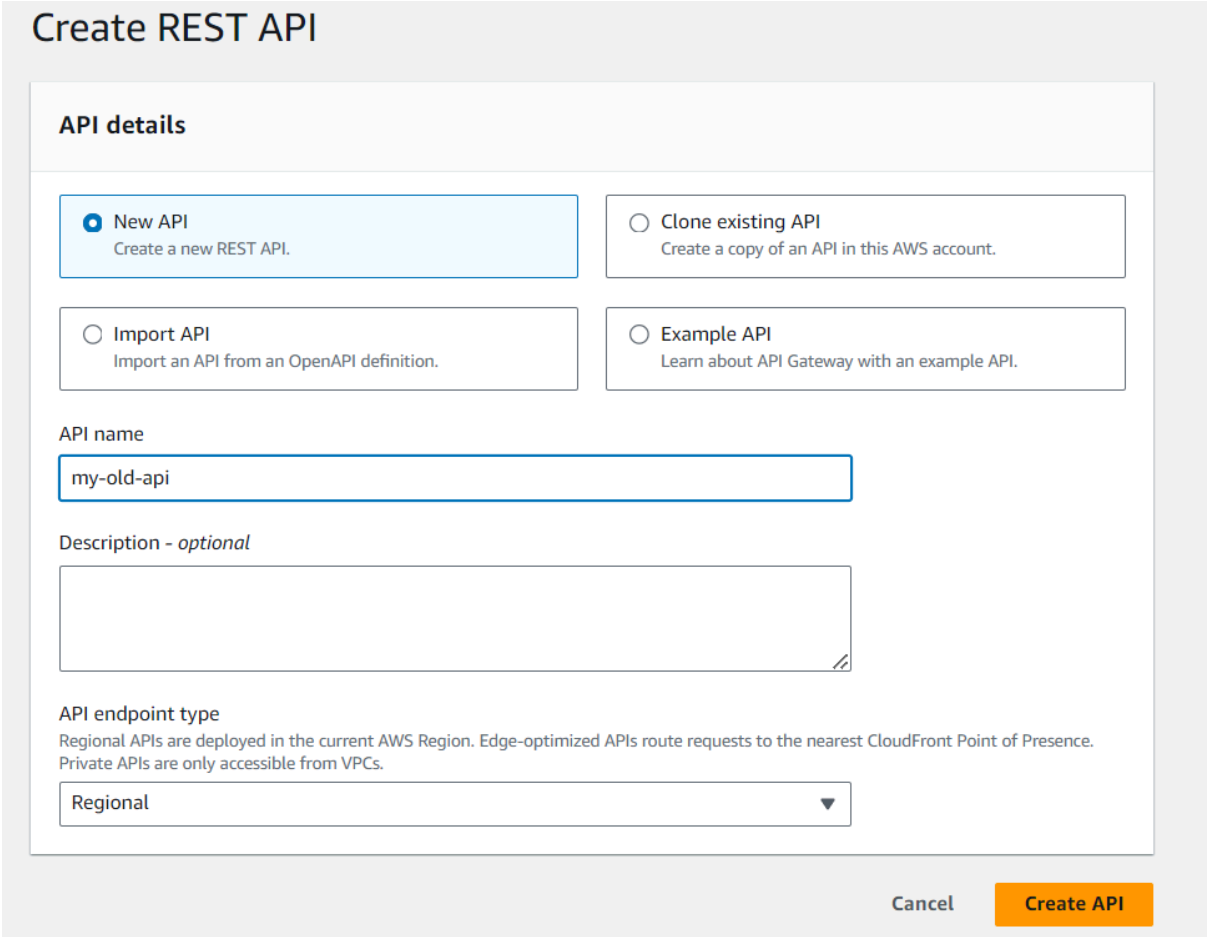
Goal: Gain hands-on experience in building and deploying a serverless API, understanding the integration between Lambda and API Gateway.

Solution:

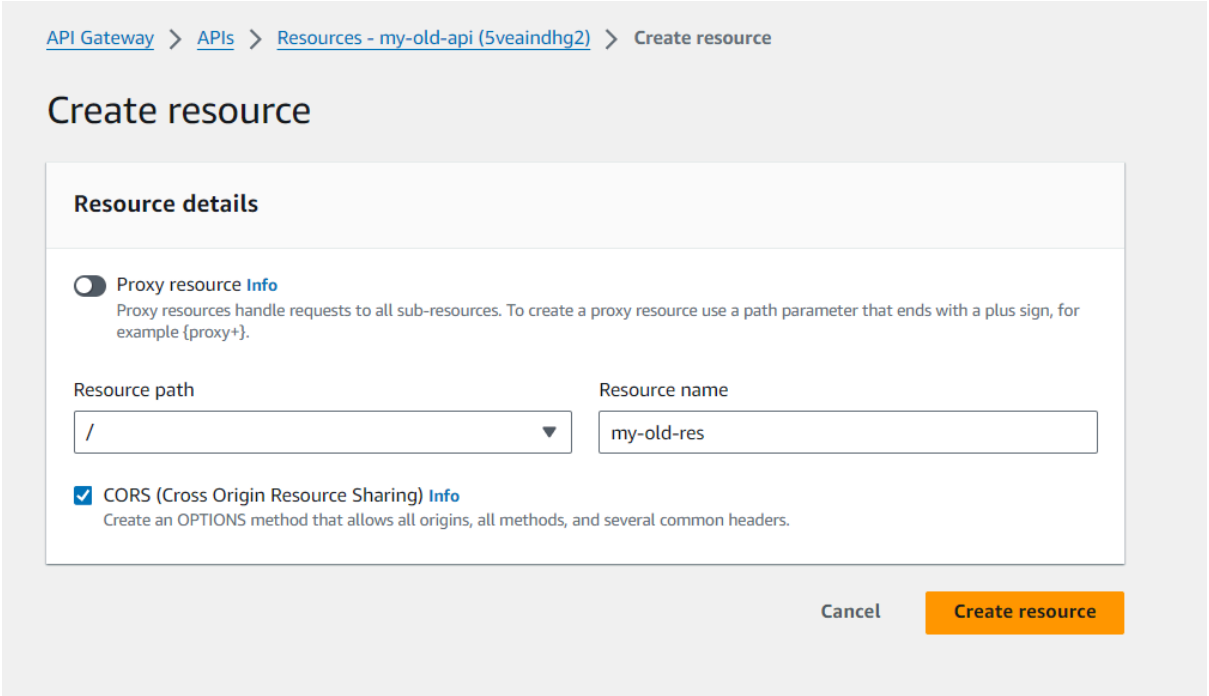
1. Created the lambda function and assigned the LabRole



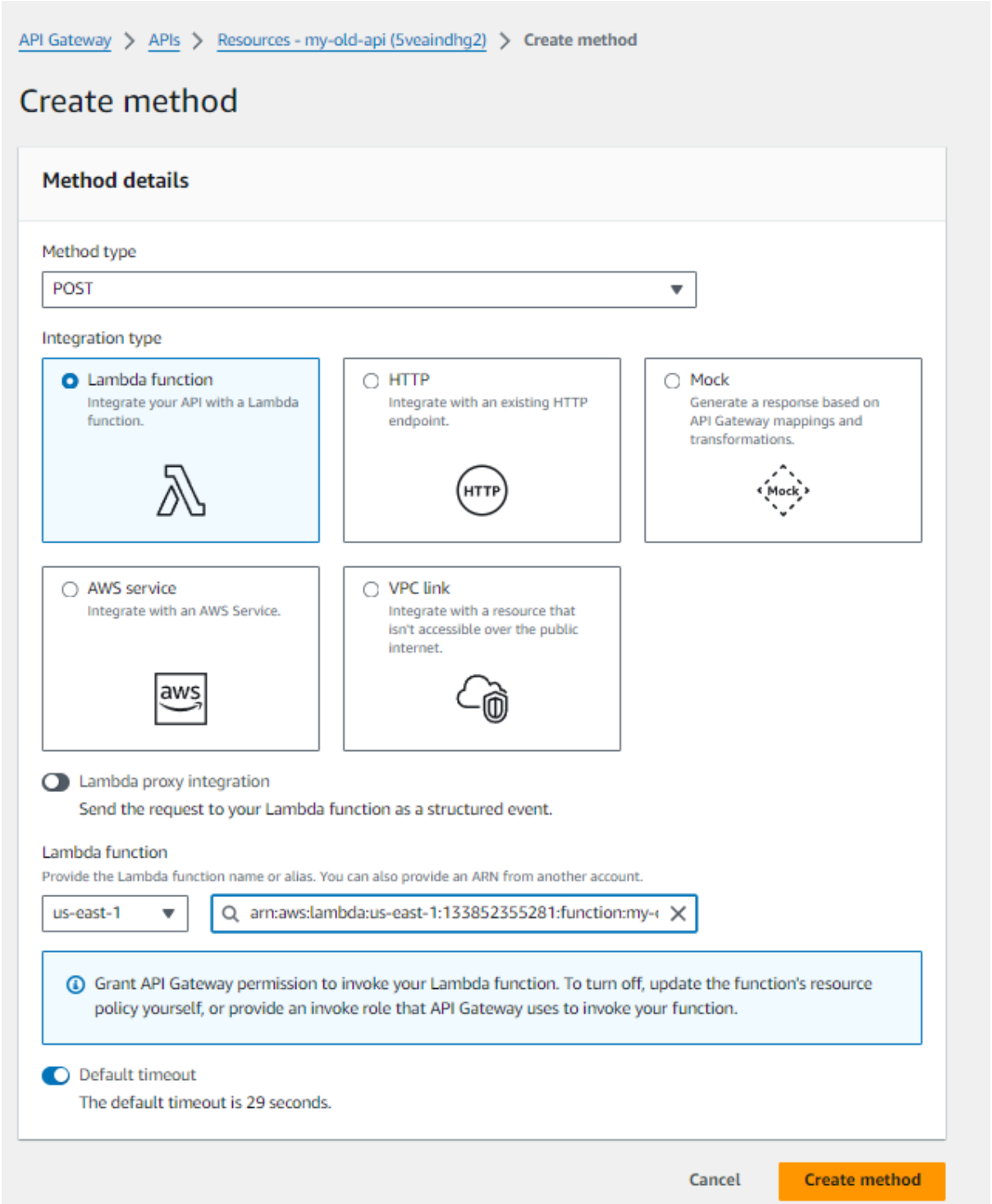
2. Created the REST API



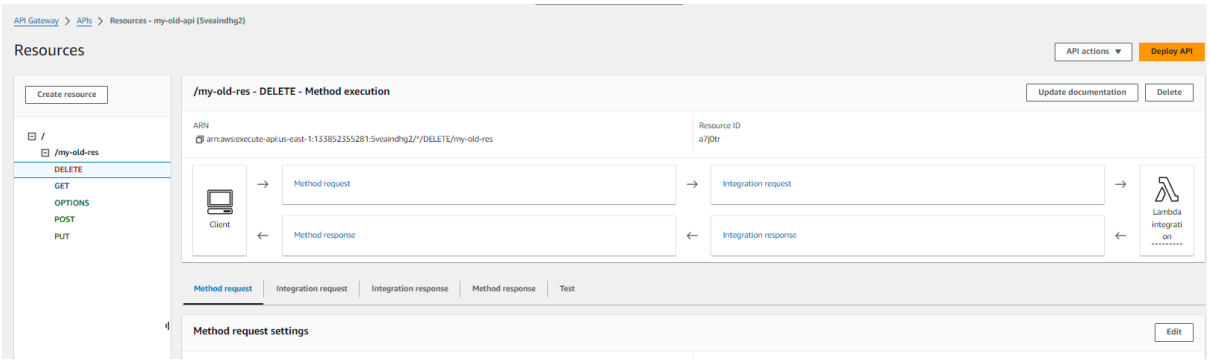
3. Created the resources



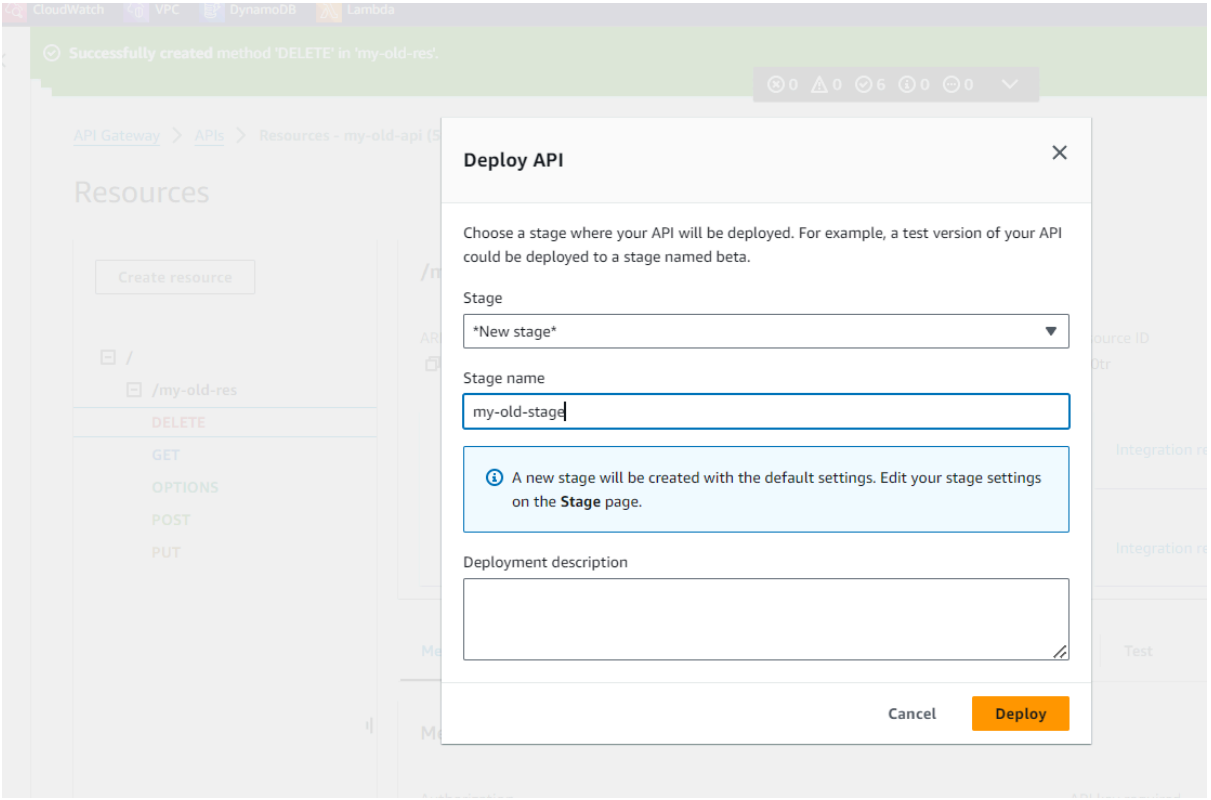
4. Created method inside the resources



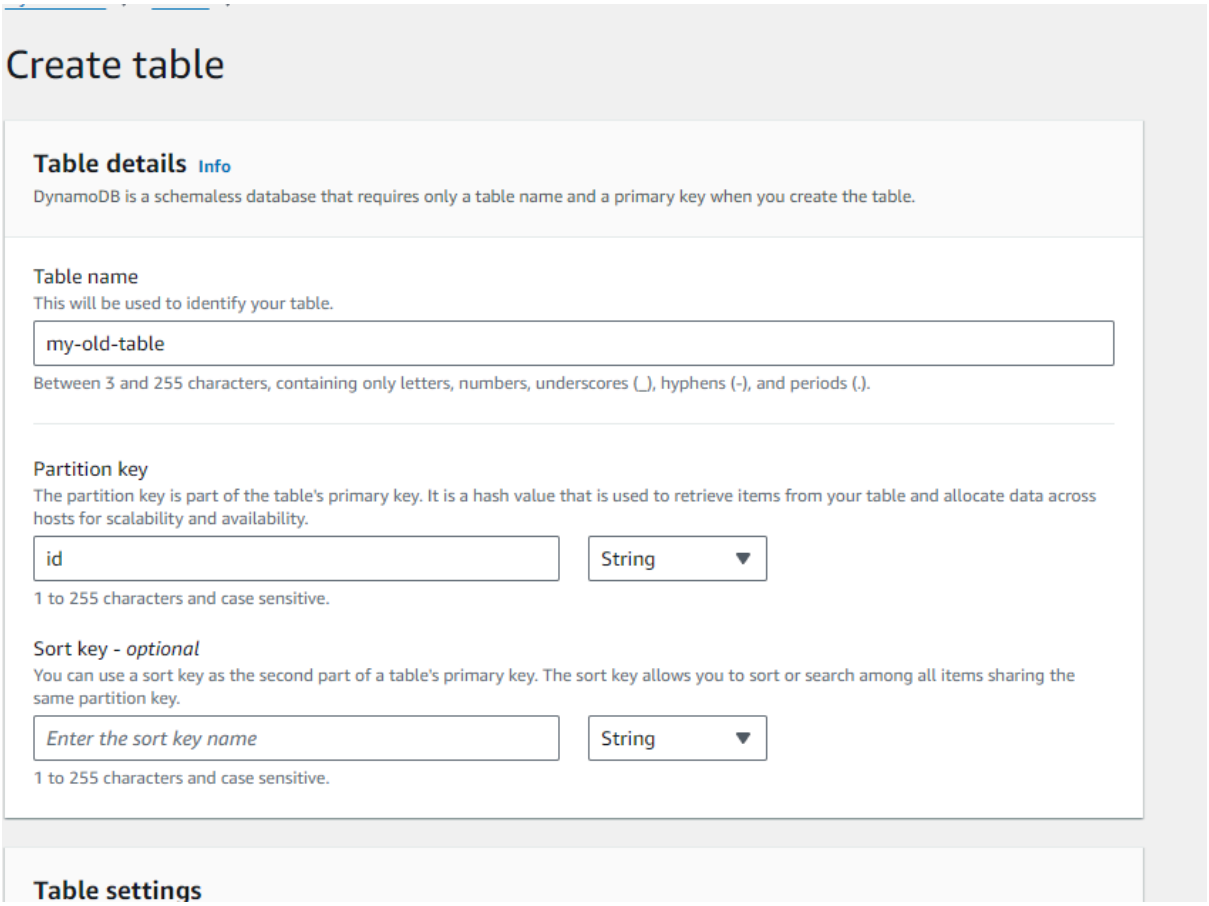
5. In similar way all four methods were created: PUT, POST, DELETE, GET



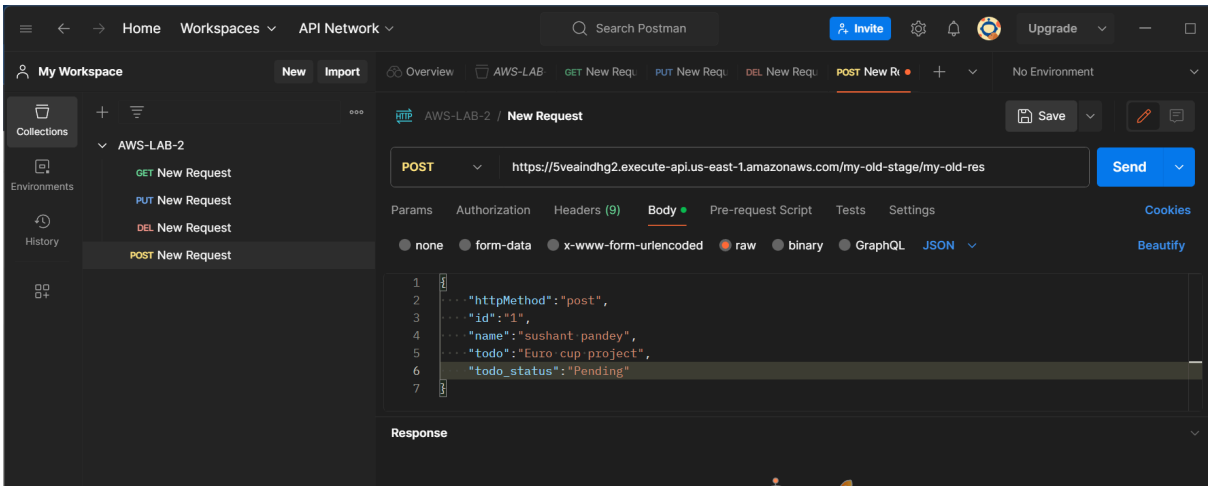
6. And then the API was deployed



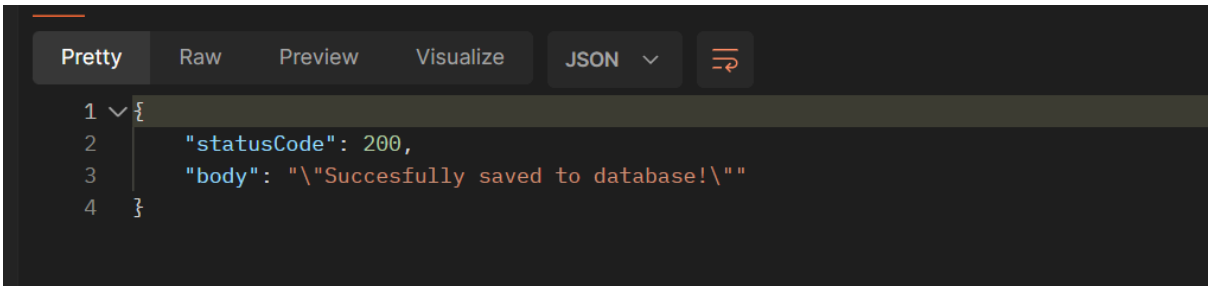
7. Now, go to DynamoDb and create table

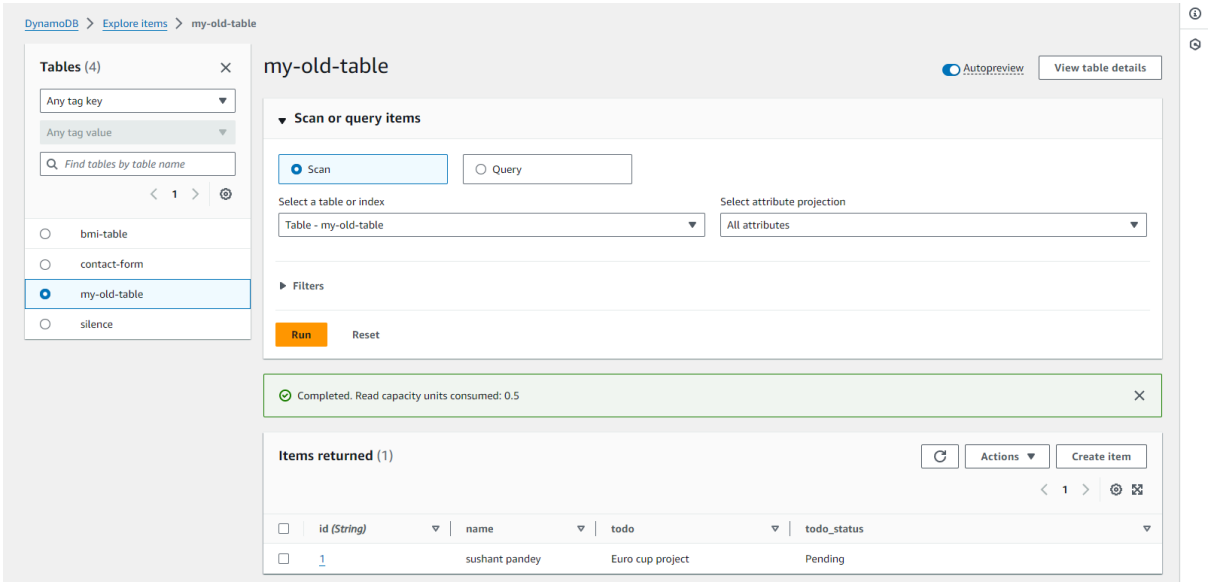


8. Inside the Postman all four request were created and the url of post request was posted, inside the body, data was inserted to post and then sent using the api

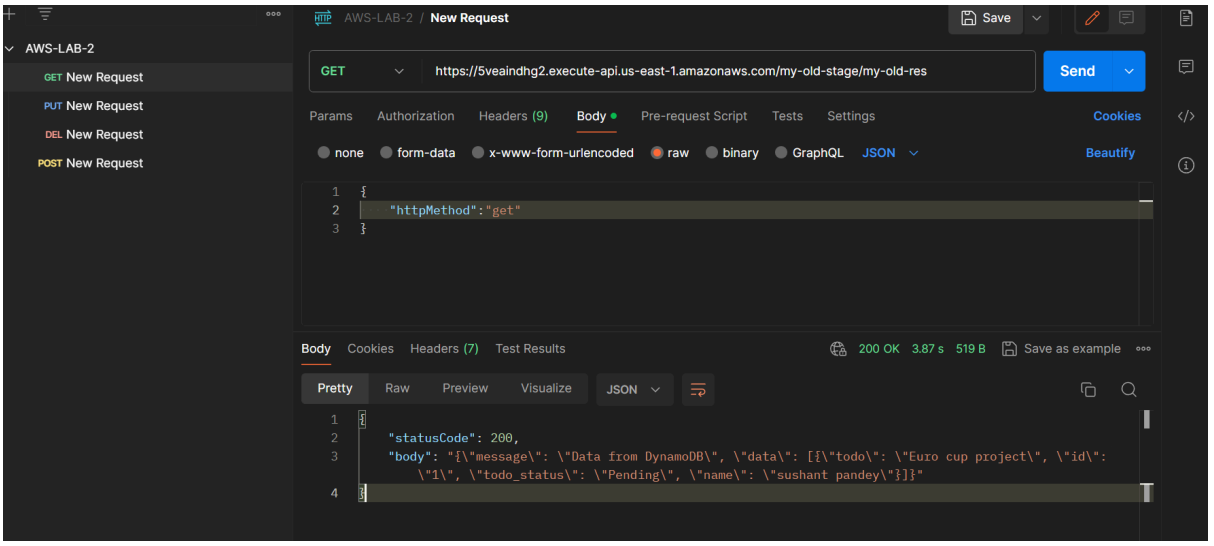


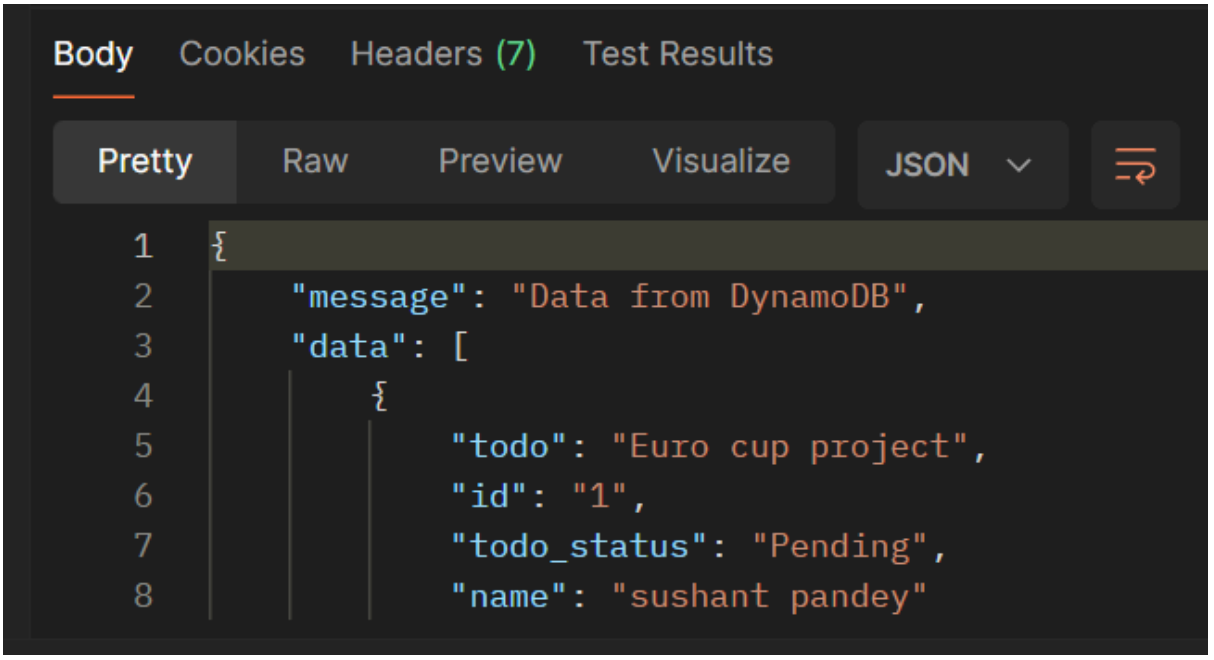
9. Here the data was successfully loaded in the table



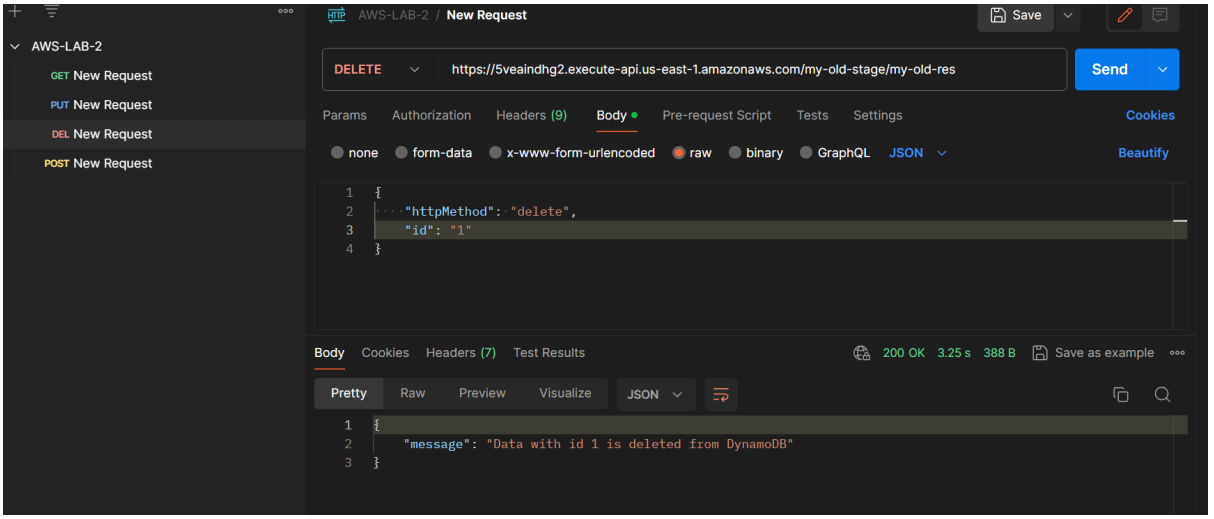


10. The GET request was placed and it returned the previously loaded data

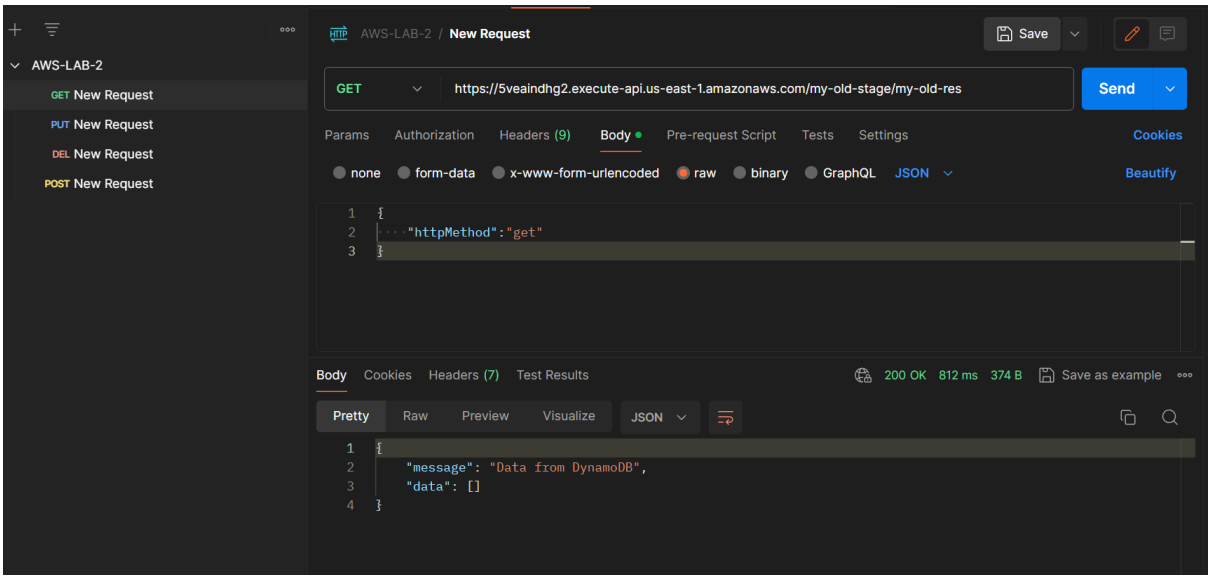


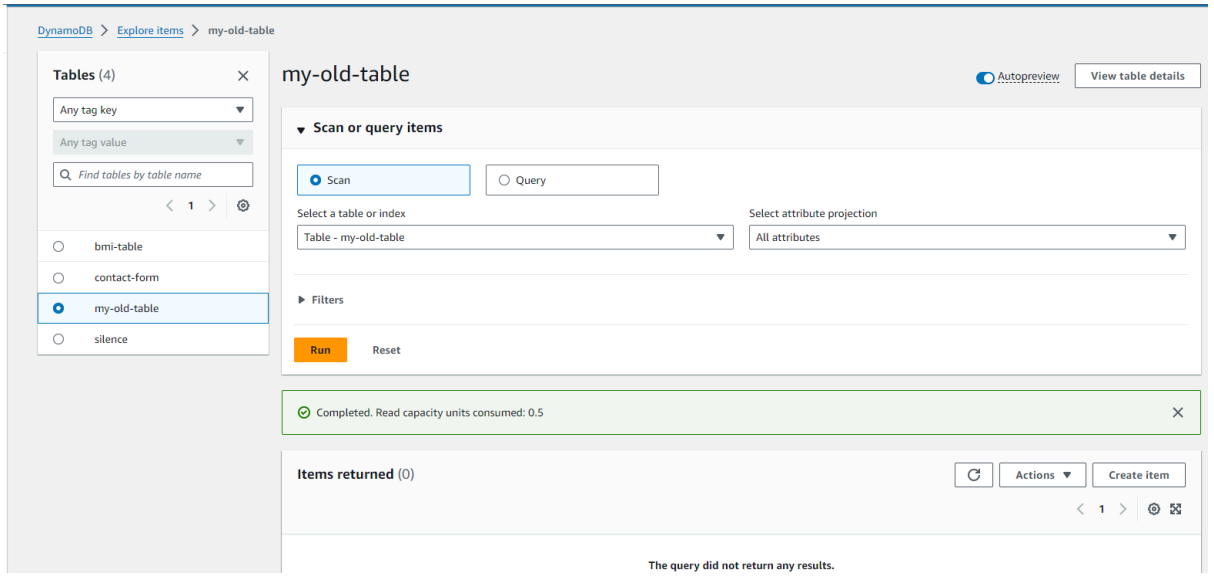


11. Now DELETE request was placed using the api

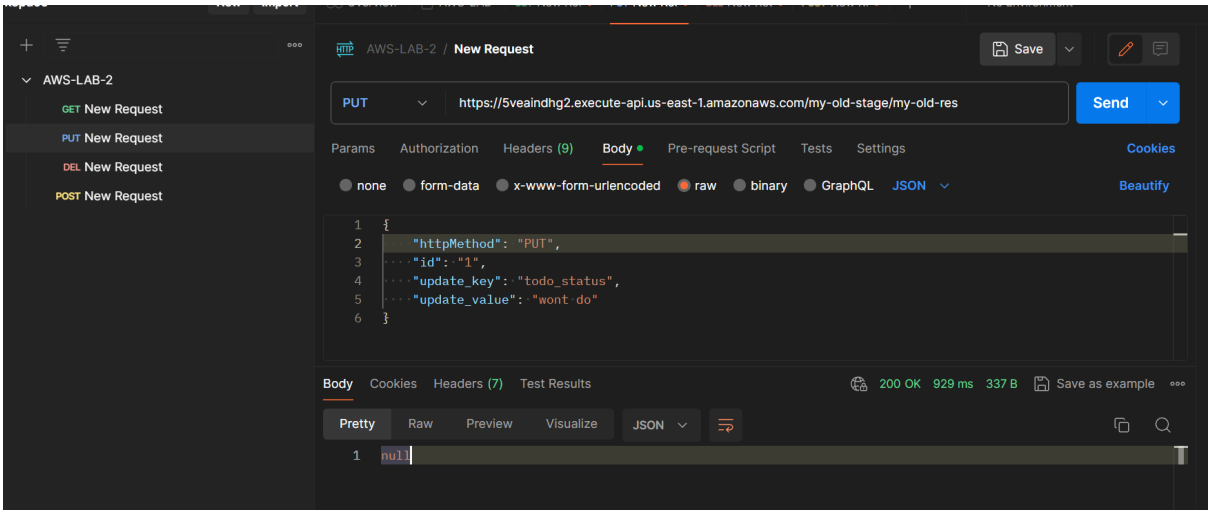


12. Here is the proof that data is deleted





13. Now PUT request was placed to change the previously entered data



14. The data is updated in our dynamodb table. Hurray!!