Building a Serverless Web Application

Objective: Create a serverless web application using AWS Lambda, API Gateway, S3, and DynamoDB.

Approach:

● **Set Up Backend:** Create Lambda functions to handle backend logic. These functions will interact with a DynamoDB table for data storage.

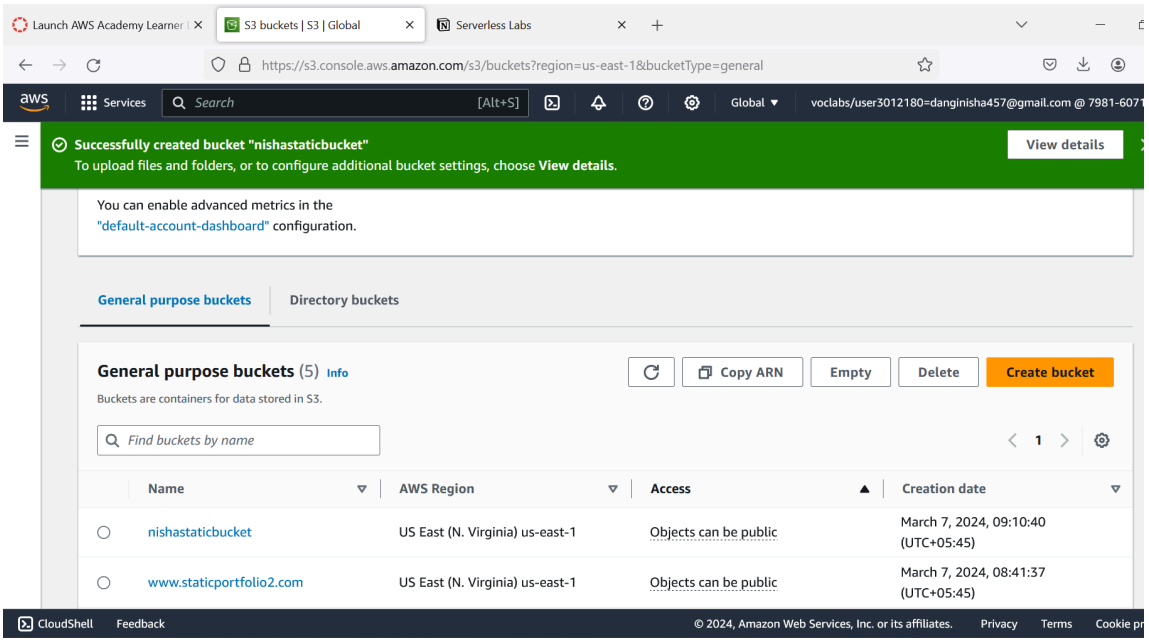
● **API Gateway:** Set up API Gateway to create RESTful endpoints that trigger the Lambda functions.

● **Frontend Hosting:** Host a static website on S3 that interacts with the backend via API Gateway.

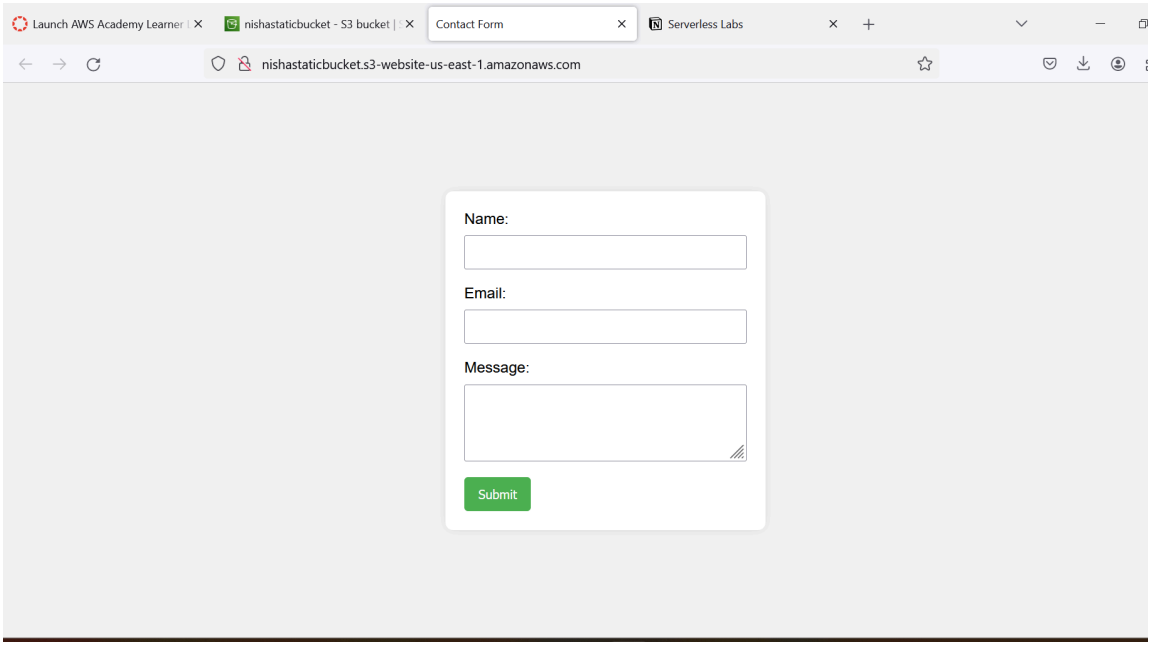
● **Integration:** Ensure that the frontend can successfully send requests to the backend and display responses.

Goal: Understand the basics of building and connecting serverless backend services with a static frontend, enabling a fully serverless web application.

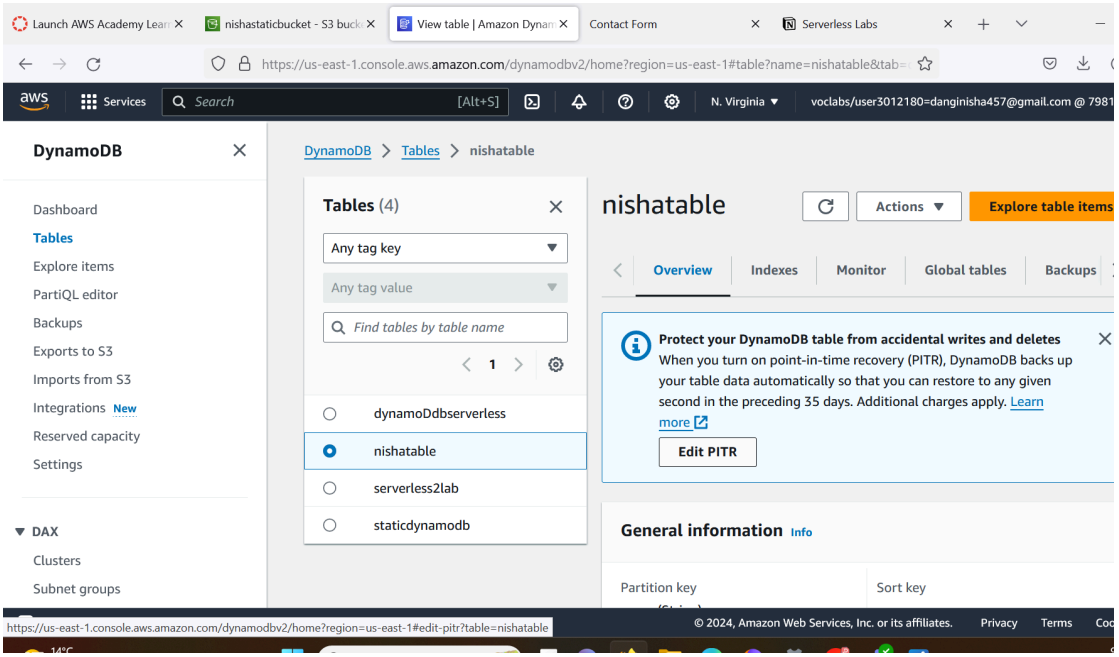
We start by creating a bucket with necessary configuration and add a static html form to the bucket.



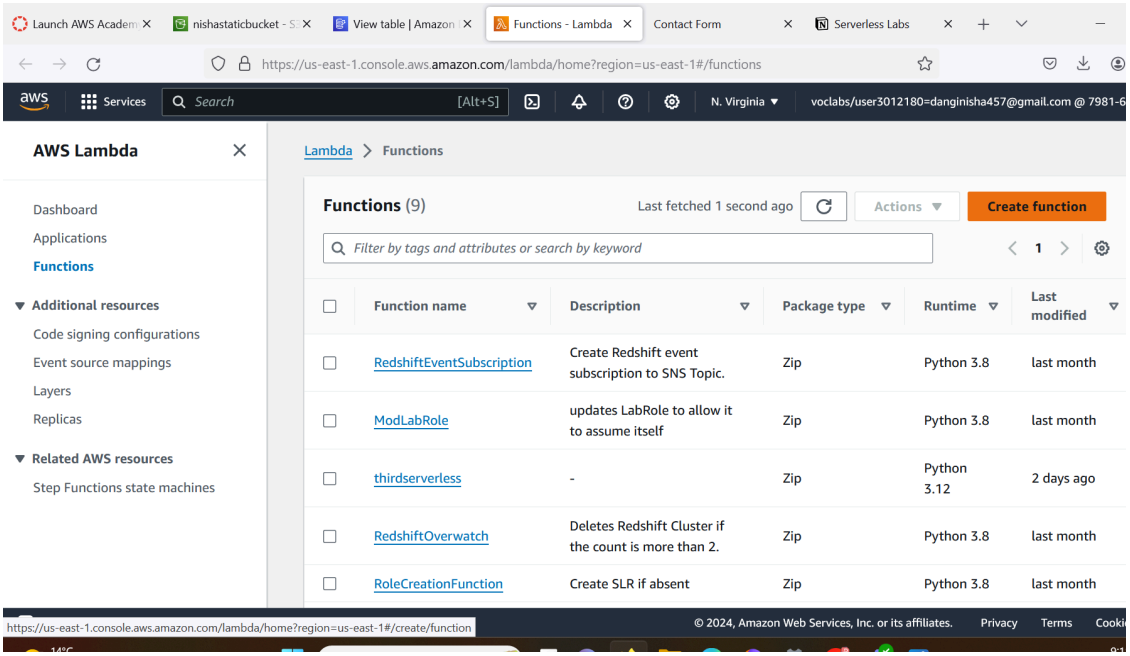
This is the static form that we have uploaded in our bucket.



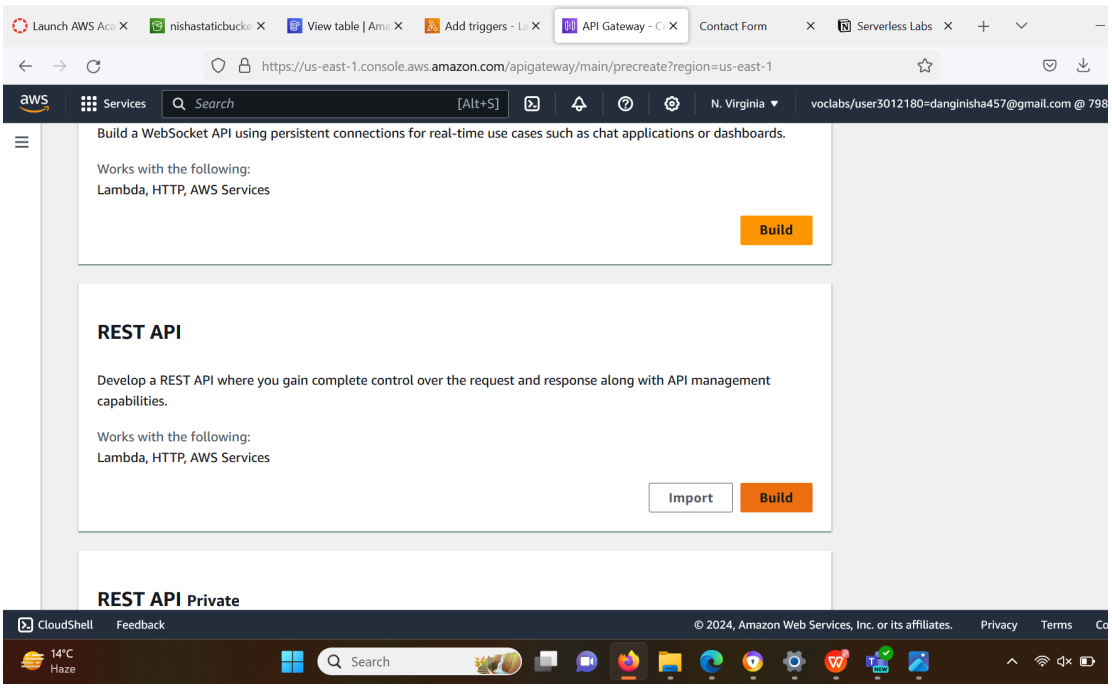
Then, we create a dynamoDB table.



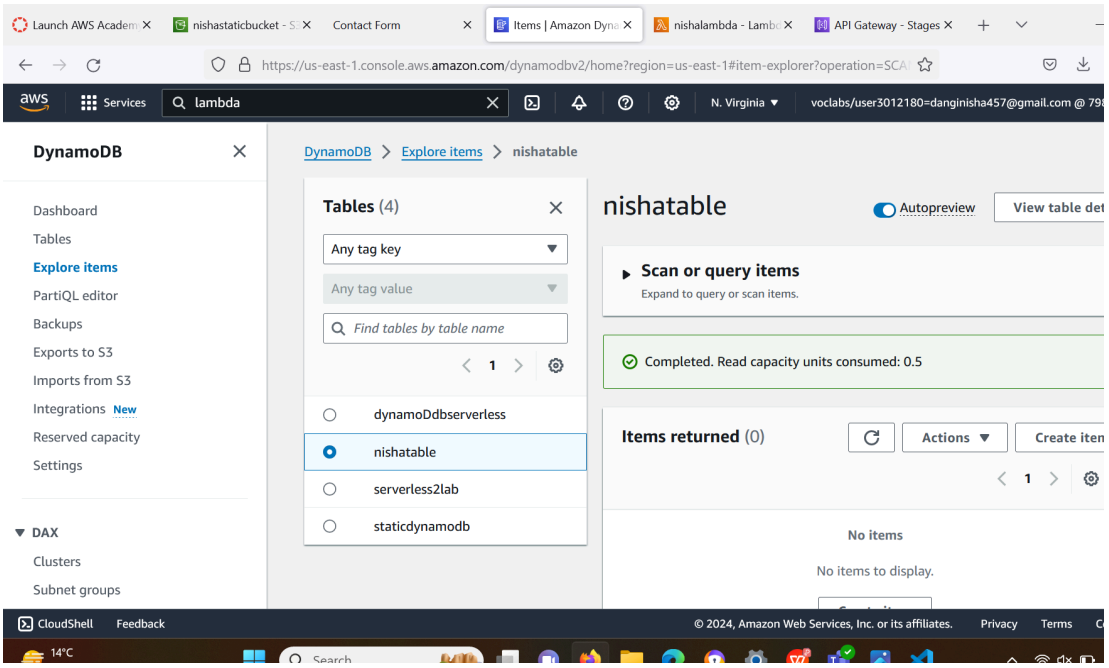
Then, we create a lambda function. Write a code inside the lambda function to perform necessary tasks and also add a trigger.



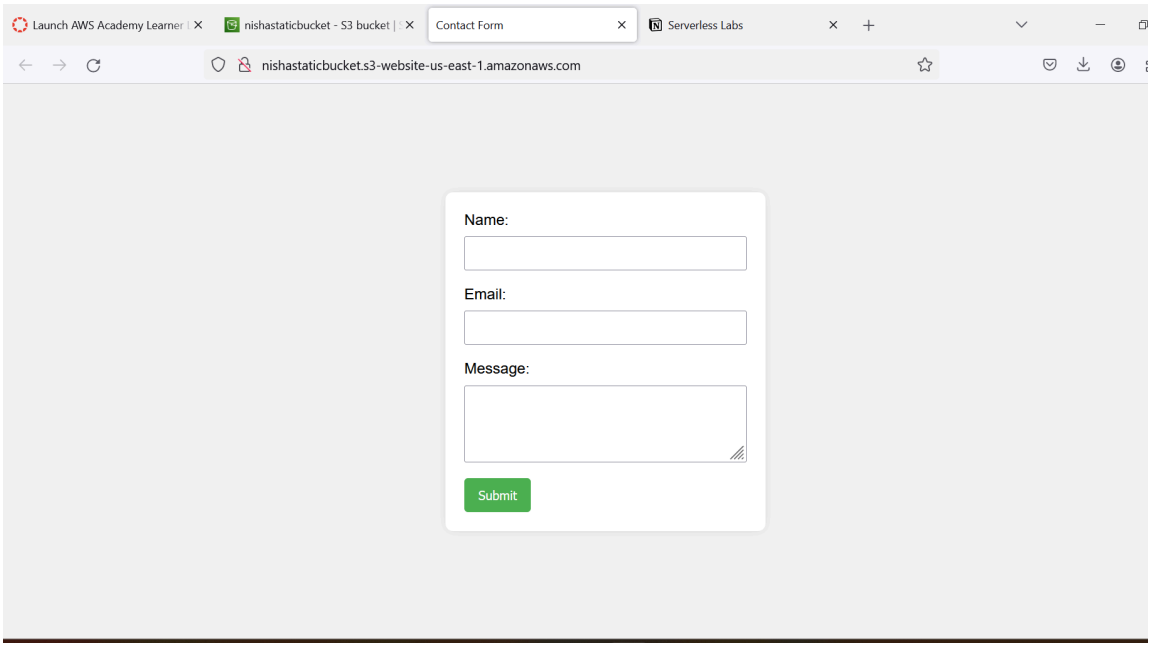
Create a Rest API, and then create a resource. Then create a method and a stage within it and deploy the API



When we see the dynamoDB, we can’t see an item.



Then, we pass some values within the form



We can see that an item has been added to dynamoDB table.