1. Building a Serverless Web Application

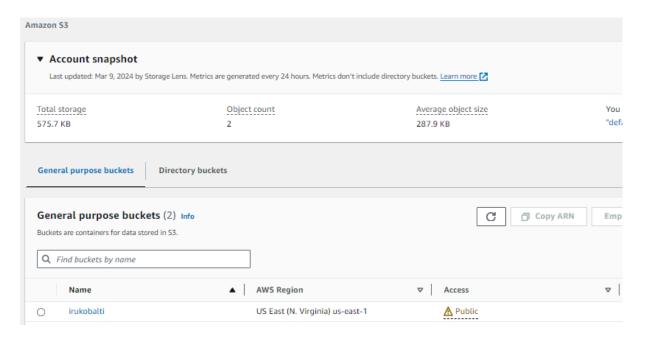
Objective: Create a serverless web application using AWS Lambda, API Gateway, S3, and DynamoDB.

Approach:

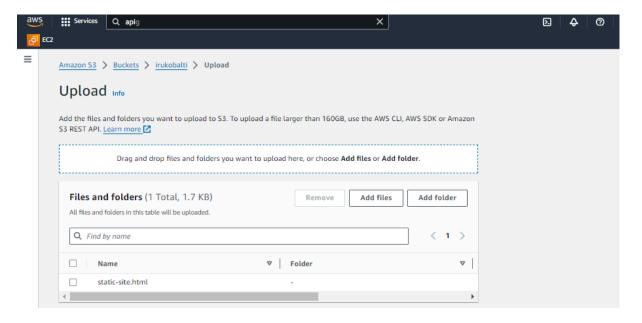
- **Set Up Backend**: Create Lambda functions to handle backend logic. These functions will interact with a DynamoDB table for data storage.
- API Gateway: Set up API Gateway to create RESTful endpoints that trigger the Lambda functions.
- **Frontend Hosting**: Host a static website on S3 that interacts 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.

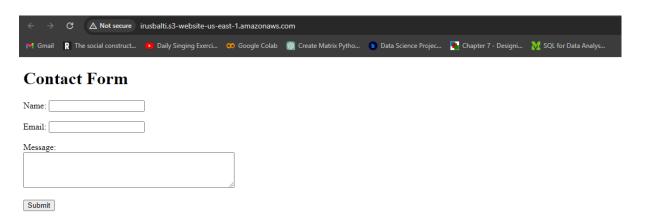
Start by creating an S3 bucket



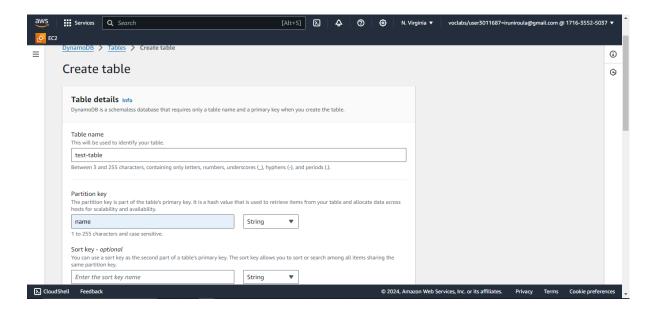
Upload static file created in the bucket



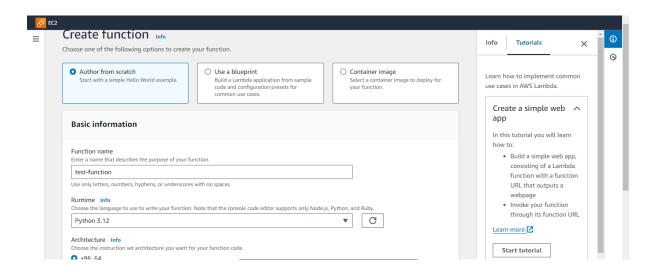
Our static site looks like this



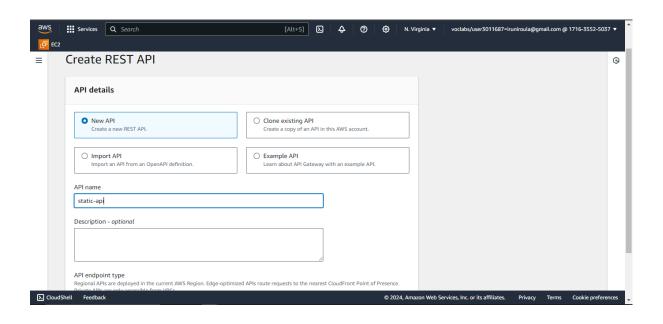
Now a DynamoDB table is created

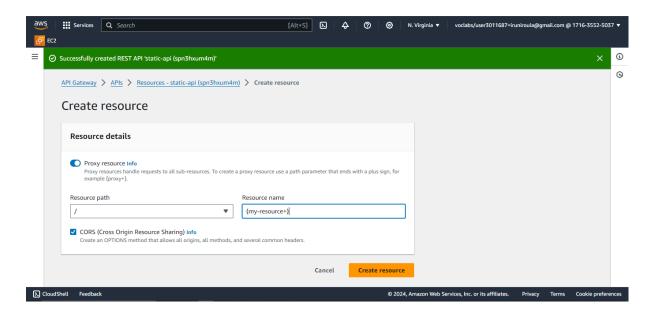


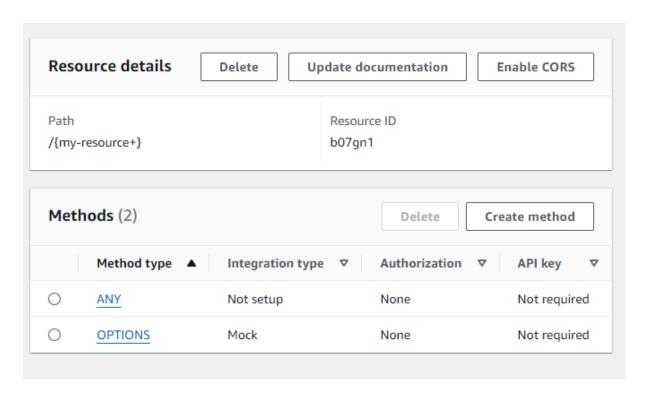
Then a lambda function is created and python code is written and deployed in it a trigger is also added.

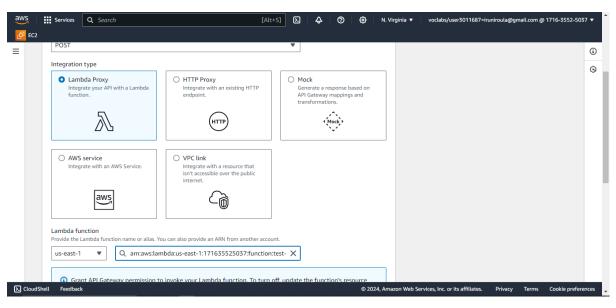


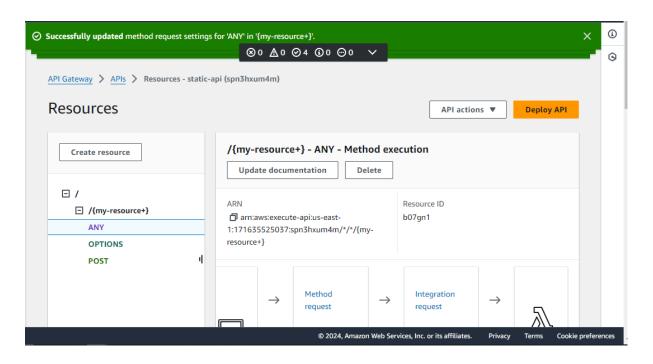
Create Rest API, then create a Resource, then a method and stage within it and finally deploy it

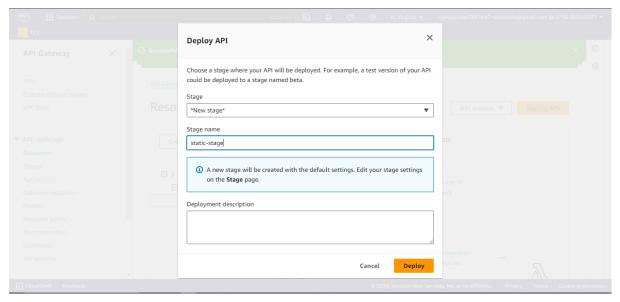


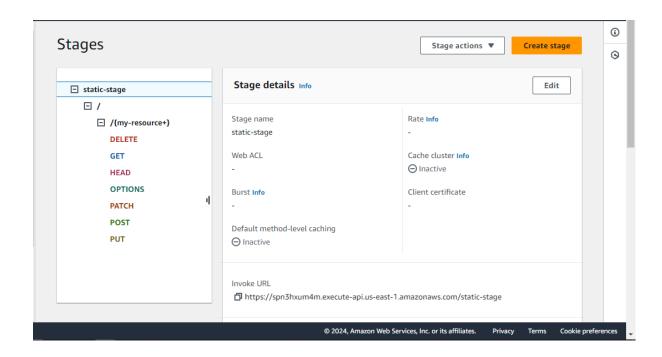




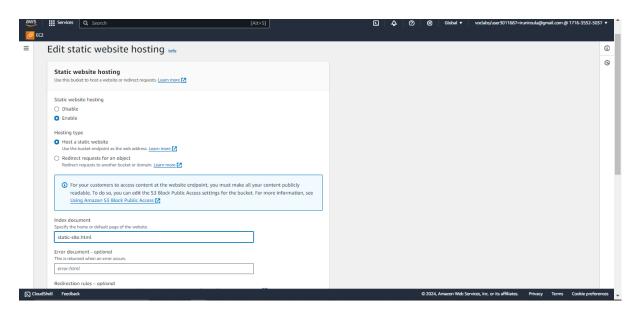




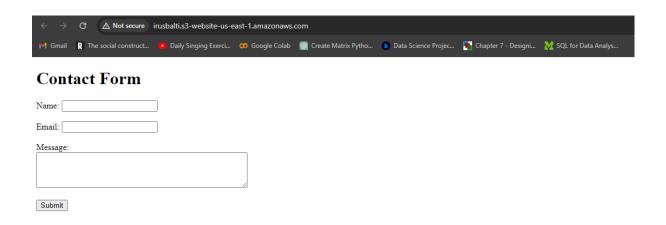




Edit necessary policies within the bucket to allow static hosting



When information is filled in this contact form,



It is now recorded in the DynamoDB as follows:

