1. Building a Serverless Web Application

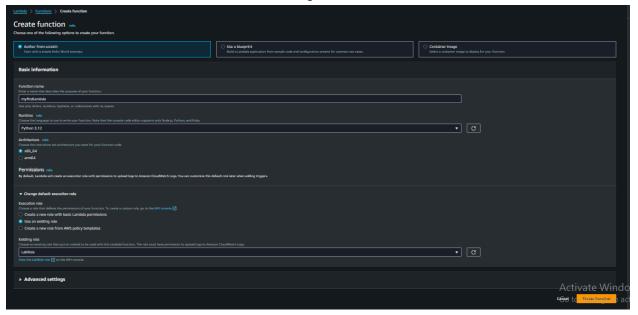
Objective: Create a serverless web application using AWS Lambda, API Gateway, S3, and DynamoDB.

Approach:

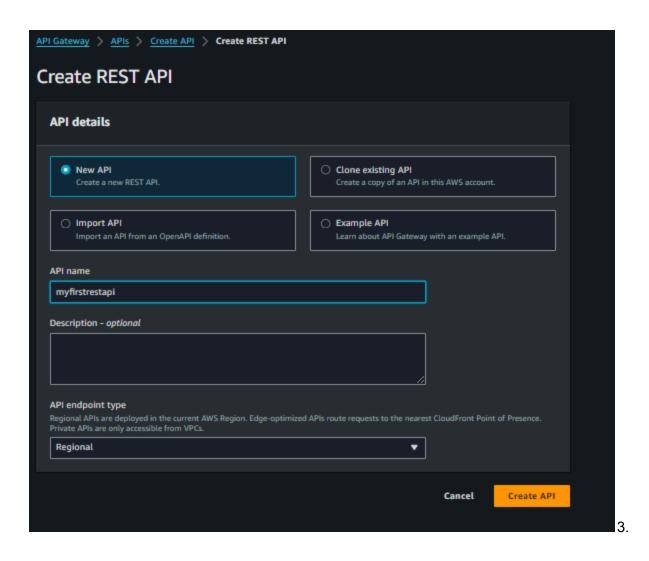
- **Set Up Backend**: Create Lambda functions to handle backend logic. These functions will interact with a DynamoDB table for data storage.
- API Gateway: Set up API Gateway to create RESTful endpoints that trigger the Lambda functions.
- **Frontend Hosting**: Host a static website on S3 that interacts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

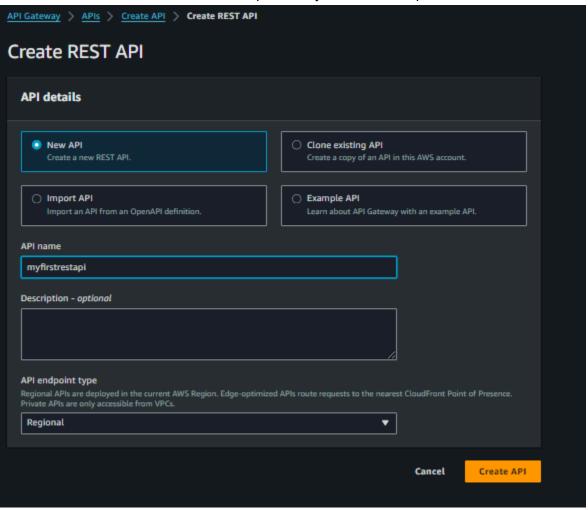
1. First create a lambda function, role was assigned to lab role



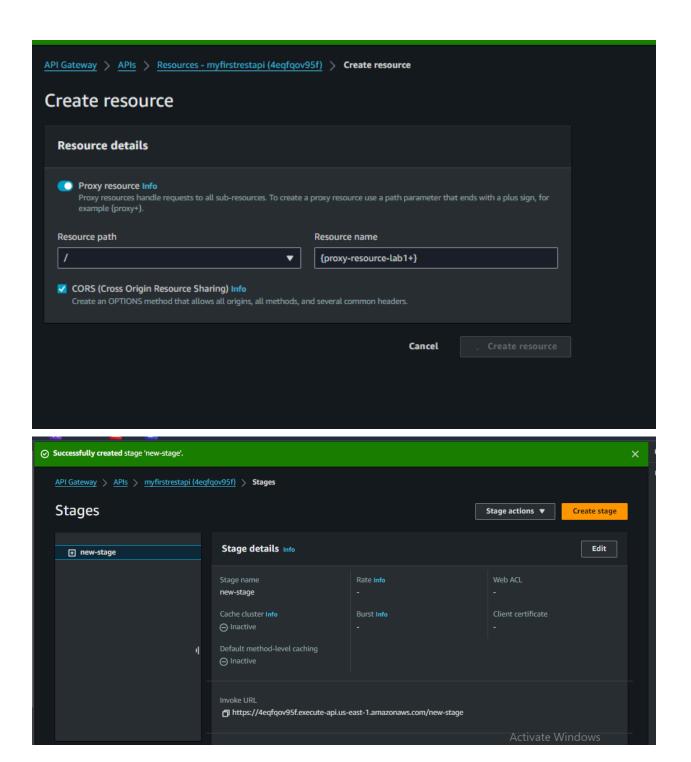
2. Created new REST Api:



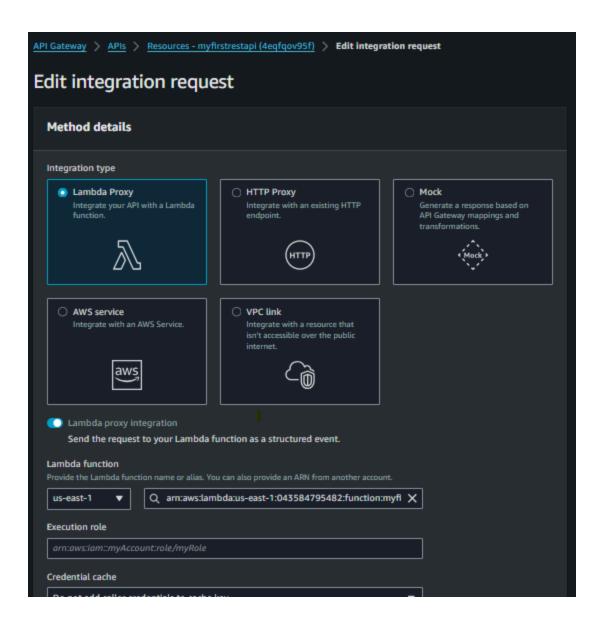
3.POST Method was created within the previously created rest api

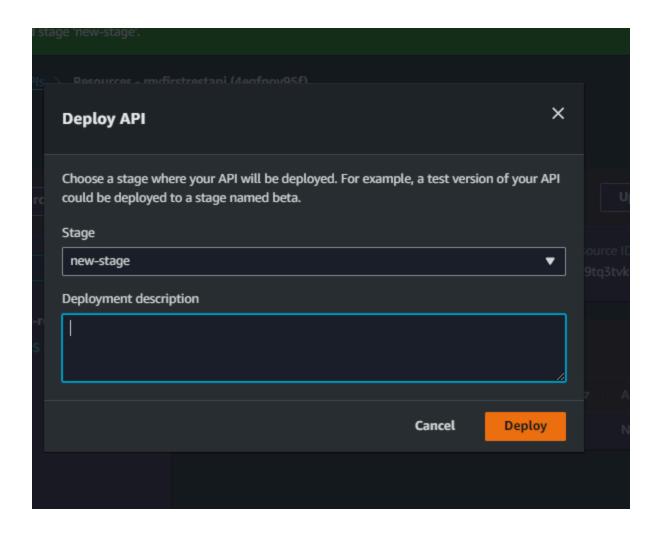


3. Resource was created and path name was given as follow

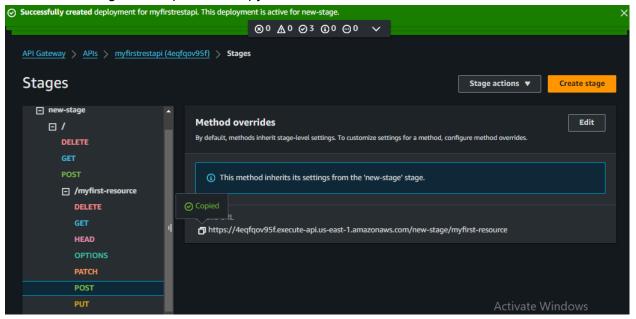


4. Within the resource tab, click integration request, enable the proxy





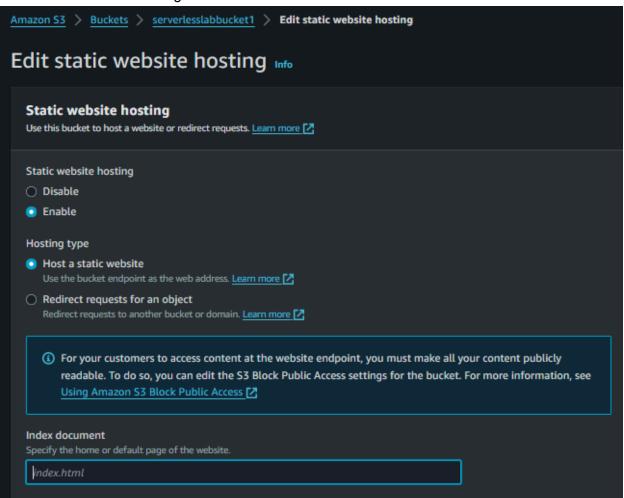
7. Within the stages, click post and copy the url as below



8. Create S3 bucket

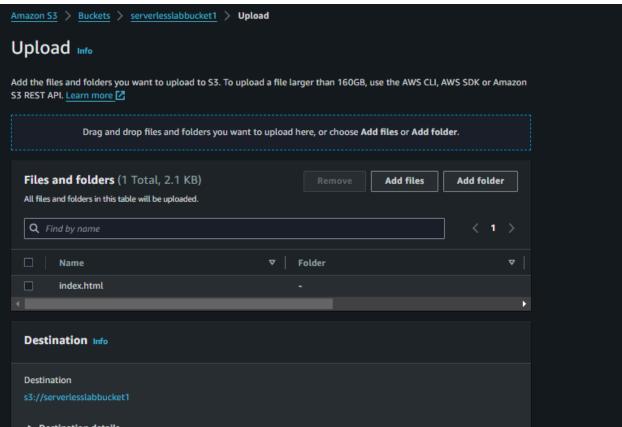


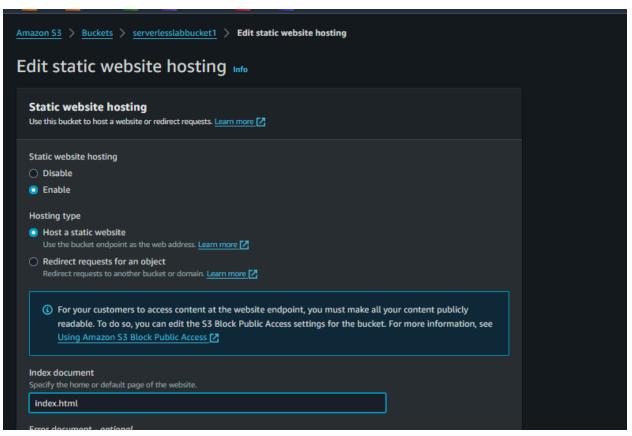
9. Edit static website hosting



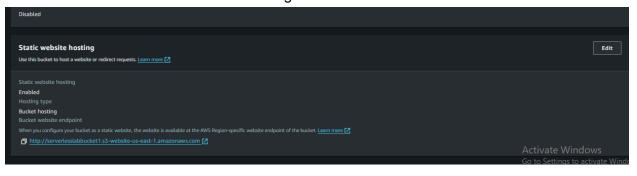
10. Edit bucket policy

11. Upload the required website file

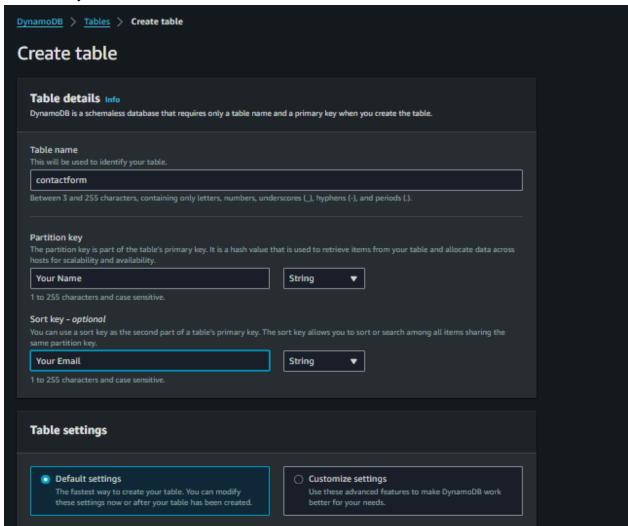




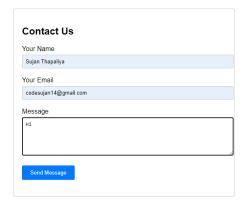
12. Find the link and click to check if working



13. Go to DynamoDb to create tables



14. Write code to receive data in the table in lambda function, Check if data is updated in table



15. frontend interacted with the backend. Data is saved to the table

