

## Lab Assignment – 07

Create and Deploy interactive web application using S3, Lambda, API Gateway and DynamoDB

Task-1: Create a S3 bucket and upload 2 object files(website code files).

### Note:

- Both the objects should be public.
- Enable static website function from S3 properties by supplying both the files.
- Copy the end points of the static website function and check whether the website is displayed in the web browser.

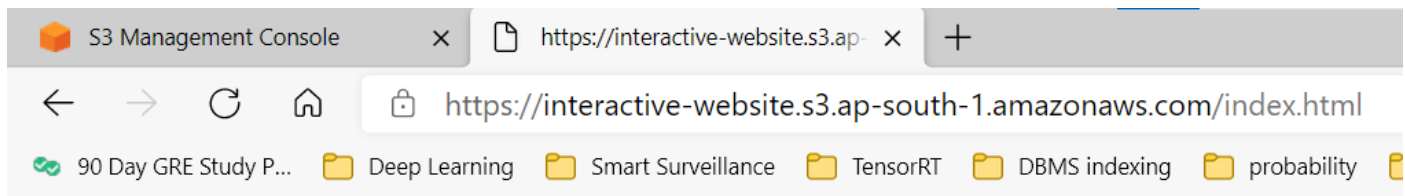
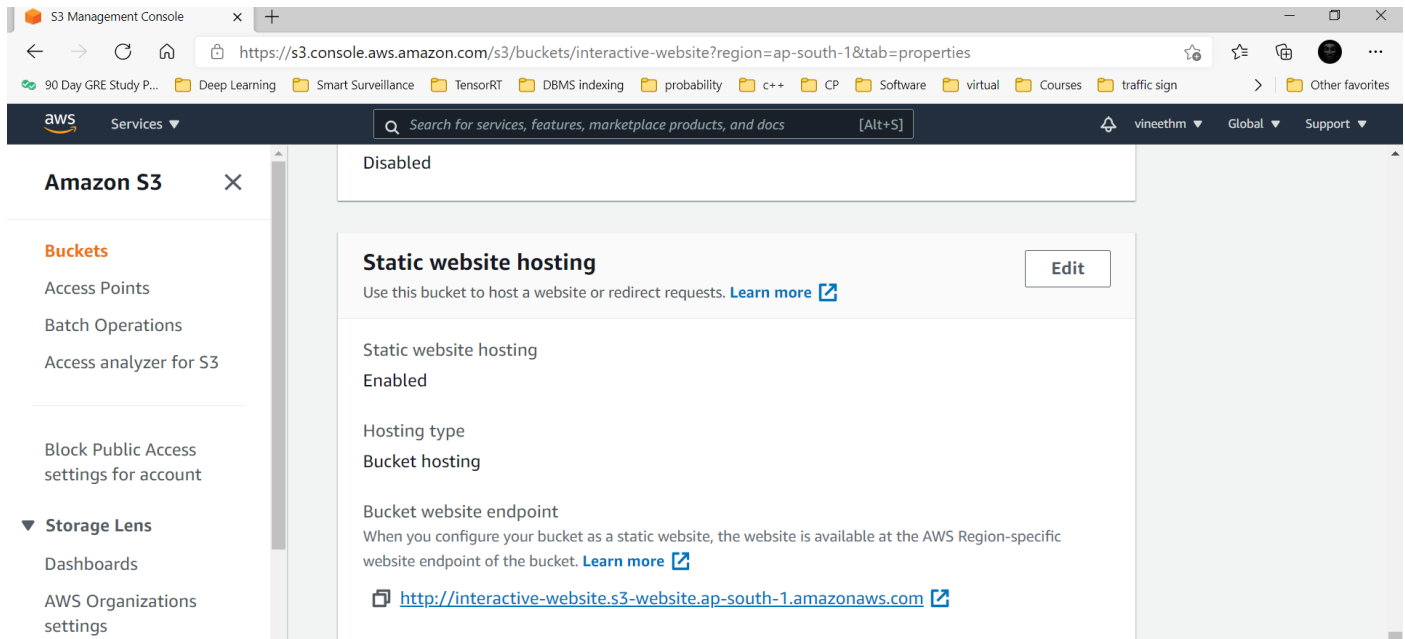
The screenshot shows the AWS S3 Management Console interface. The browser address bar displays the URL: `https://s3.console.aws.amazon.com/s3/upload/interactive-website?region=ap-south-1`. The console header includes the AWS logo, a search bar, and user information (vineethm, Global, Support).

The main content area shows the upload progress for the bucket `s3://interactive-website`. It indicates that 2 files (210.0 B) were successfully uploaded (100.00%) and 0 files (0 B) failed (0%).

Below the progress bar, the 'Files and folders' tab is selected, showing a list of files:

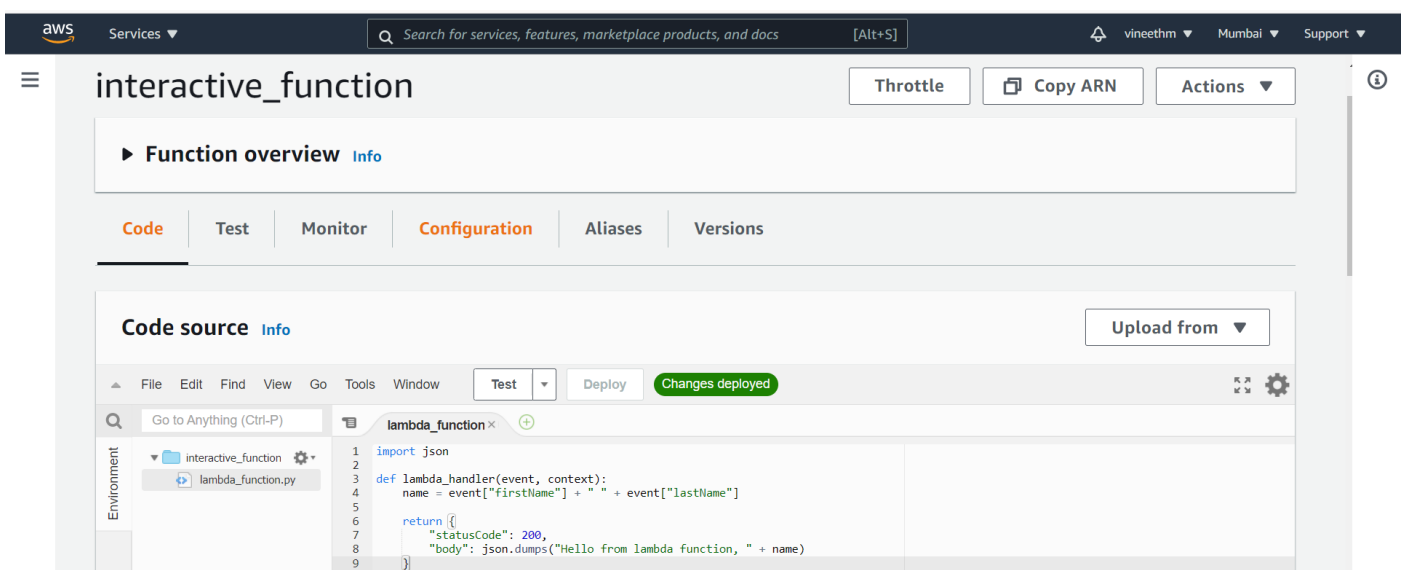
Name	Folder	Type	Size	Status	Error
<a href="#">error.html</a>	-	text/html	133.0 B	✓ Succeeded	-
<a href="#">index.html</a>	-	text/html	77.0 B	✓ Succeeded	-

The footer of the console shows the date and time (01-03-2021, 00:42) and links to Feedback, Privacy Policy, Terms of Use, and Cookie preferences.



# Hello World

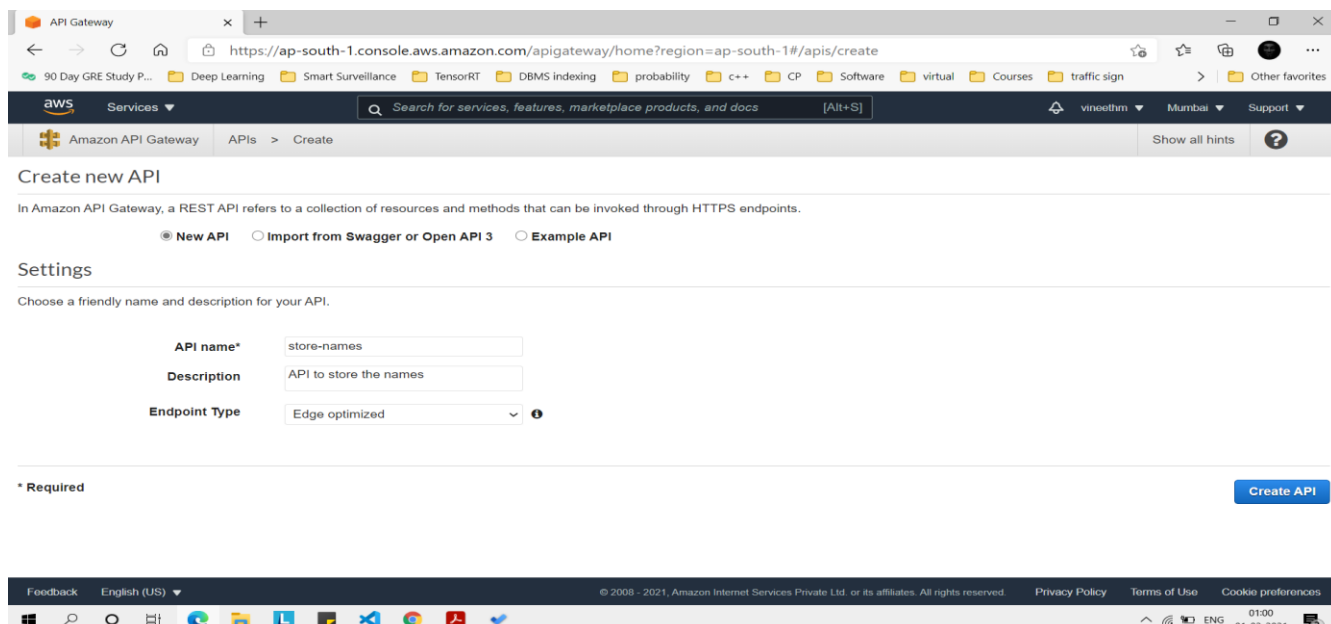
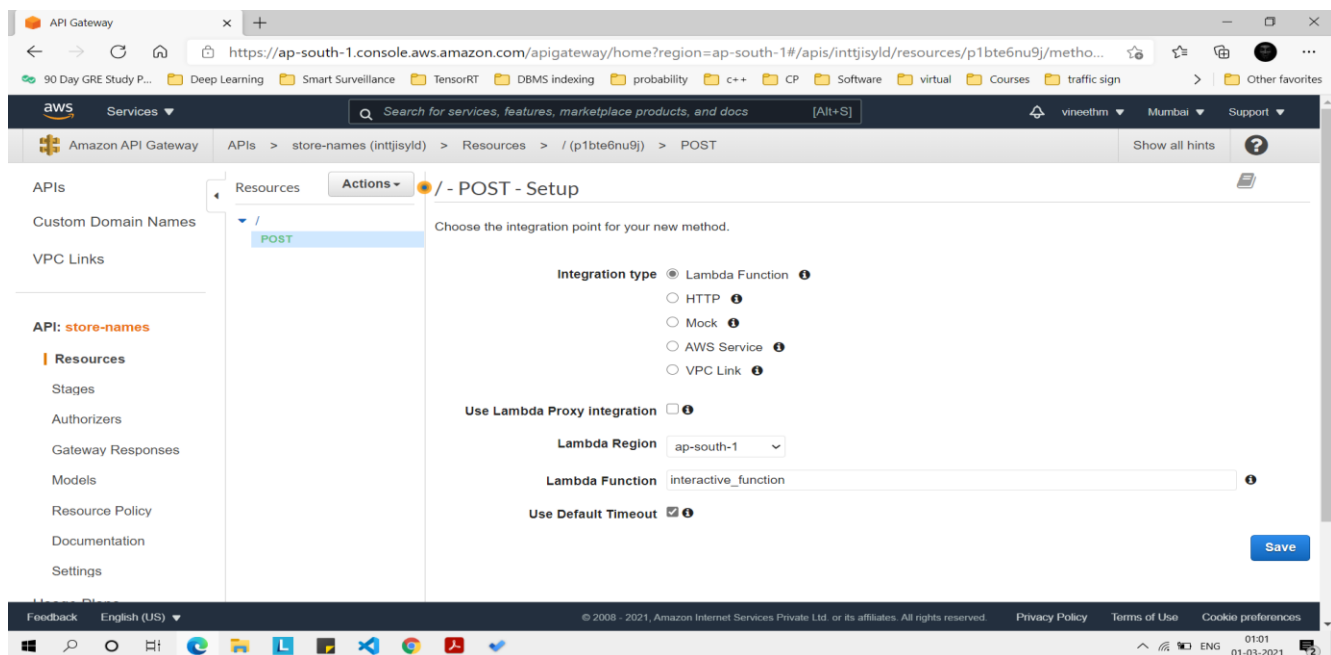
Task-2: Create a Lambda function and write the necessary code.

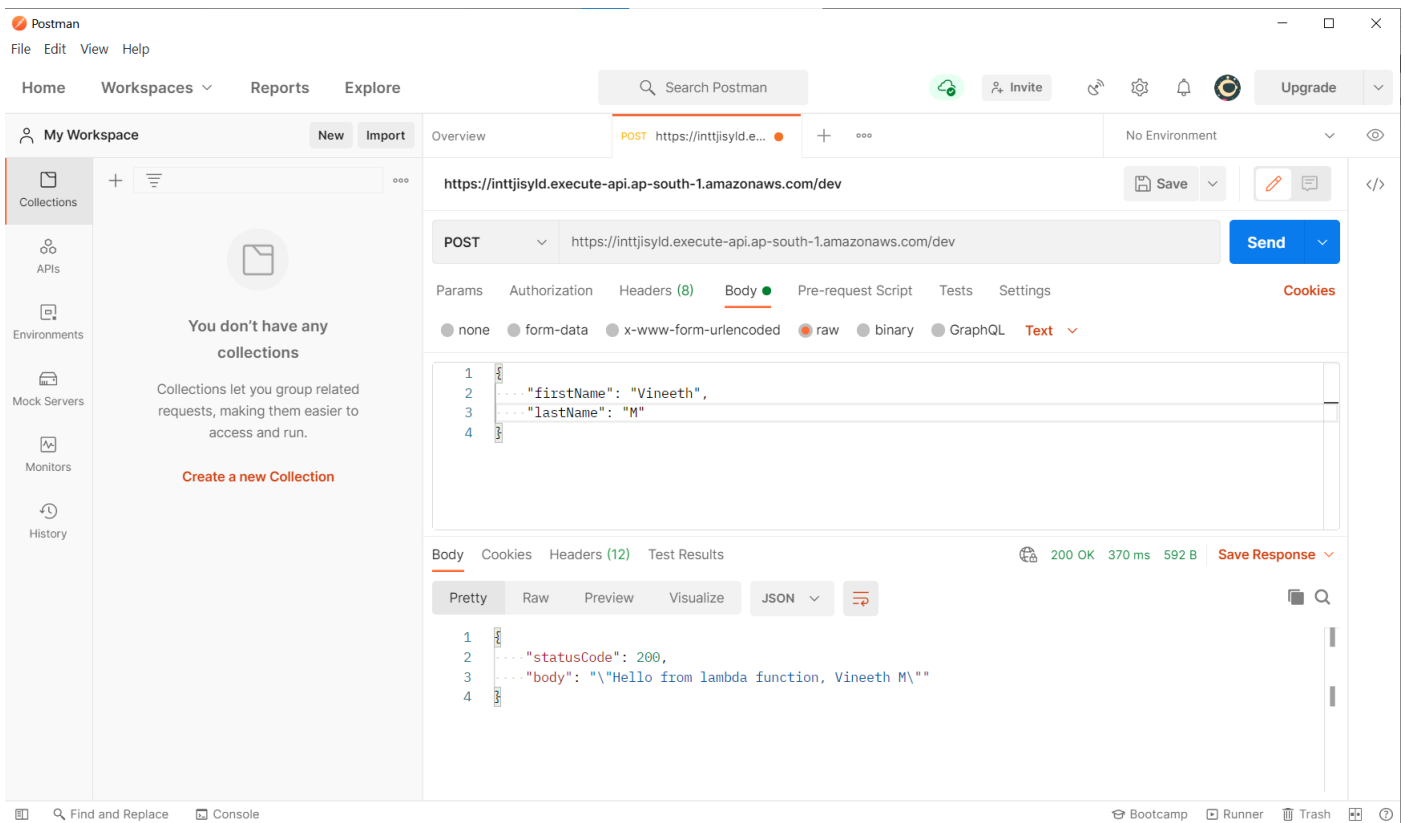
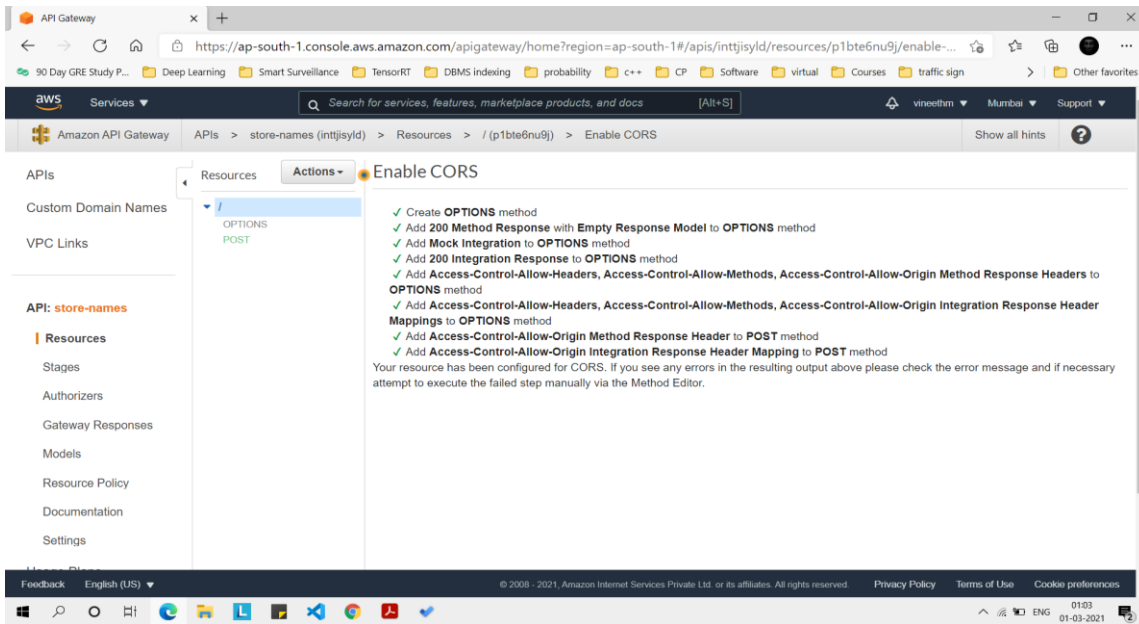


Task-3: Go to AWS API Gateway and create a new API selecting the REST API option.

### Note:

- Select edge optimized.
- Go to action and select create method, choose post option and select Lambda function name as the integration type.
- Go to action and enable the CORS(for cross region connectivity of the end user)
- Deploy the API.
- Check the invoke url of the API using web browser.

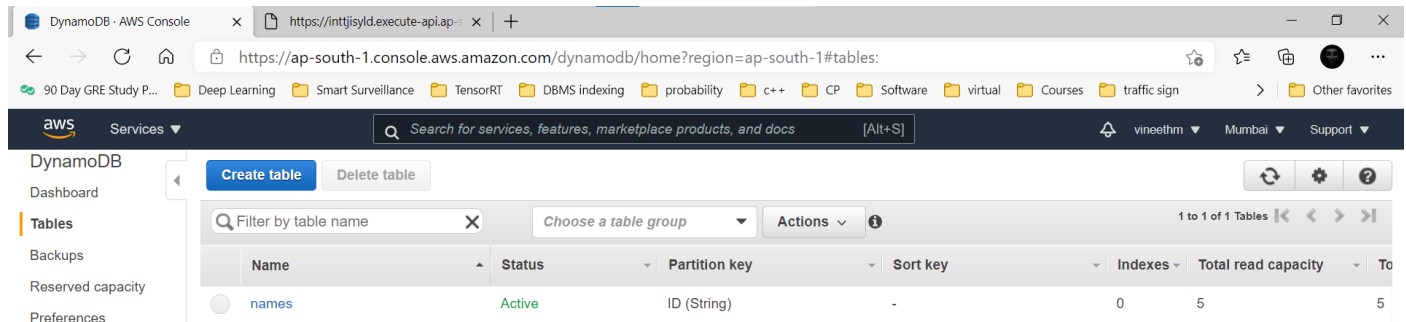




Task-4: Go to DynamoDB and create a Table, keeping the primary key as 'ID'.

### Note:

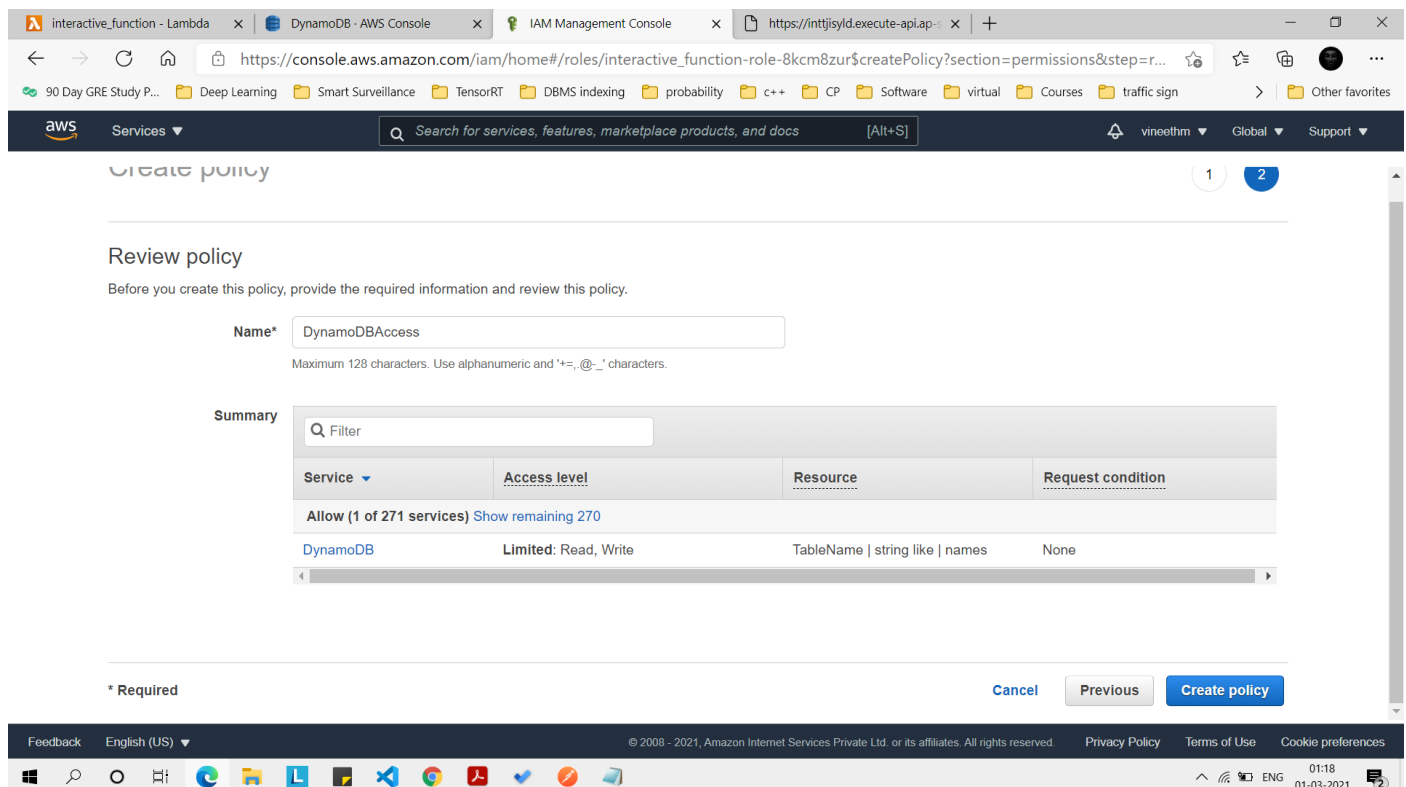
- Copy the ARN point of the DynamoDB table.
- The ARN point will be accessible by the lambda function as per the IAM policy.



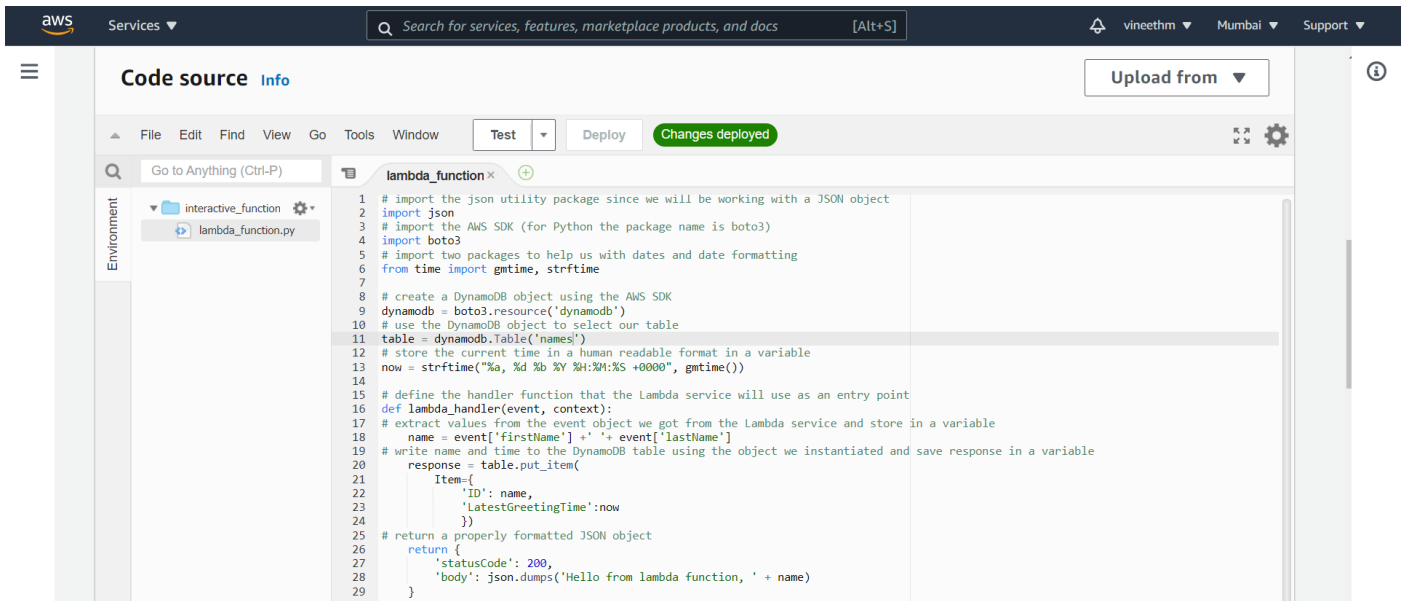
Task-5: Go to the created Lambda function and click on the permission tab.

### Note:

- Click on add inline policy, a json editor will open.
- Copy the custom policy as given in the file.
- In the policy JSON editor, supply the ARN point of the DynamoDB table as resource name.



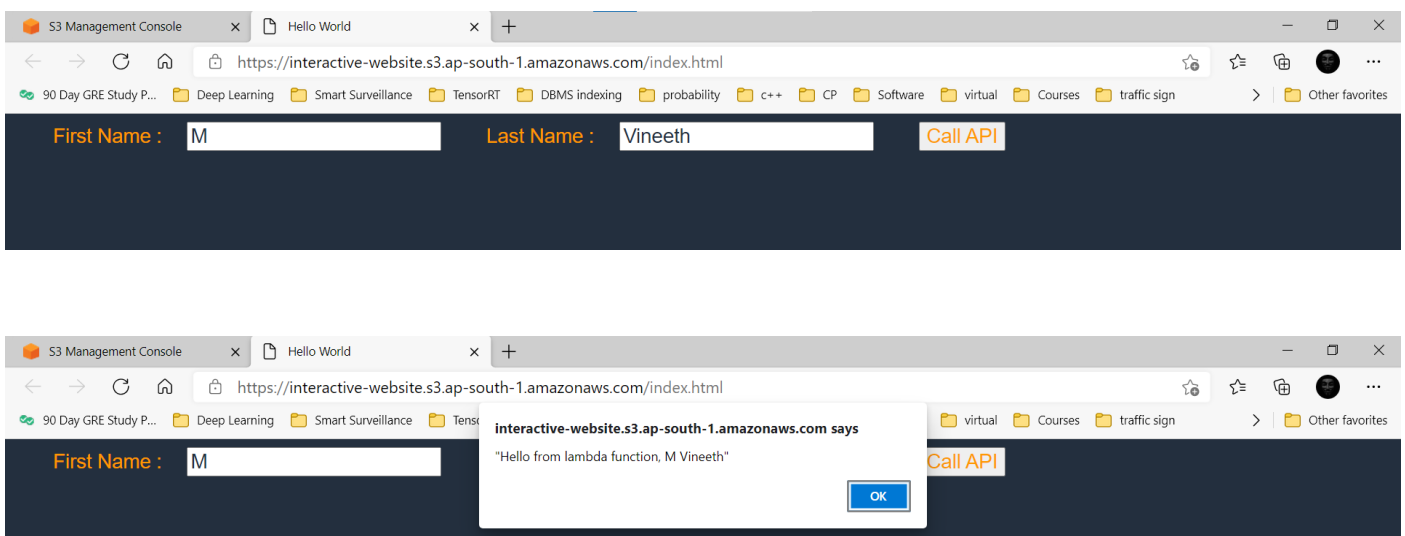
## Task-6: Go back to the created Lambda function and update the code.



## Task-7: Go to the created S3 bucket and upload the index.html file (interactive one).

Done. Uploading a new file with the same name as the already uploaded file in the bucket replaces the file in the bucket with the newly uploaded file.

## Task-8: When the interactive website page opens, provide some input and check if the entries are stored in the DynamoDB.



aws

Services

Search for services, features, marketplace products, and docs

[Alt+S]

vineethm

Mumbai

Support

DynamoDB

Dashboard

Tables

Backups

Reserved capacity

Preferences

DAX

Dashboard

Clusters

Subnet groups

Parameter groups

Events

Try the preview of the new console

Create table

Delete table

Filter by table name

Choose a table ...

Actions

Name

names

names

Close

Overview

Items

Metrics

Alarms

Capacity

Indexes

Global Tables

Backups

More

Create item

Actions

Scan: [Table] names: ID

Viewing 1 to 2 Items

Scan

[Table] names: ID

Add filter

Start search

ID

LatestGreetingTime

M Vineeth

Sun, 28 Feb 2021 20:05:29 +0000

Vineeth M

Sun, 28 Feb 2021 19:53:29 +0000