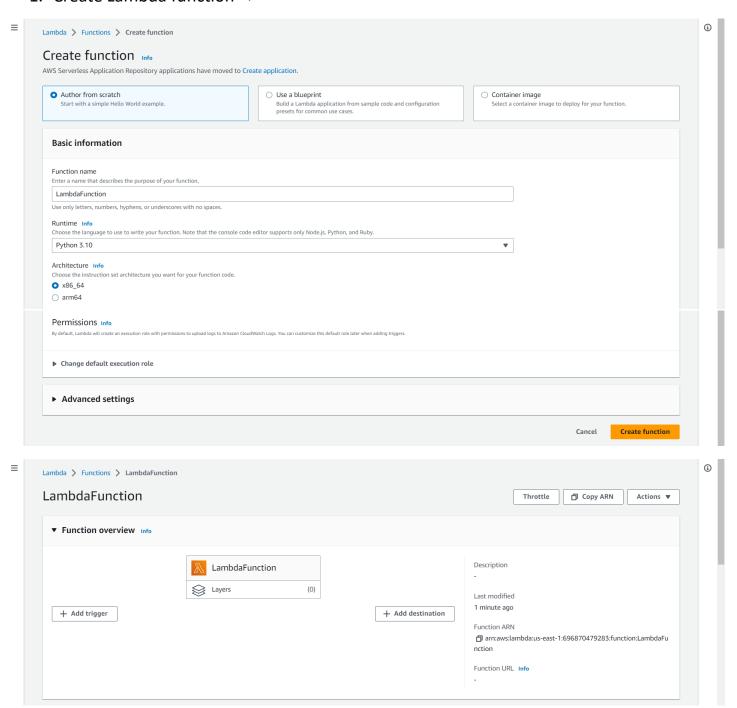
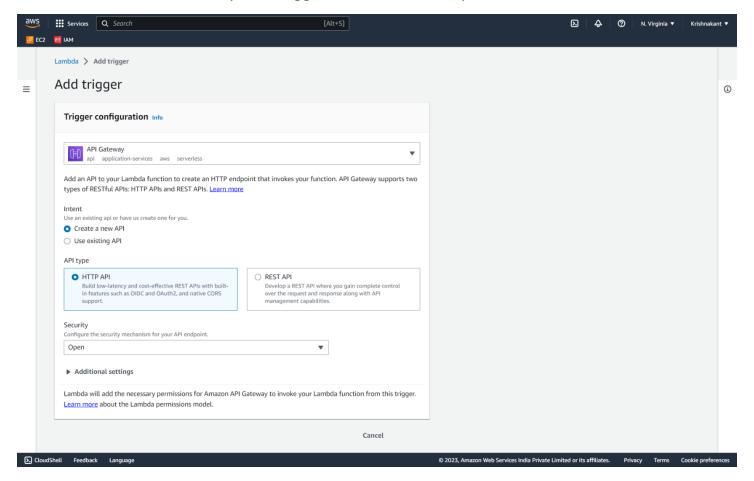
Serverless Application on AWS

Steps1: Create backend using Lambda which will accept API Requests with some parameters.

1. Create Lambda function =>

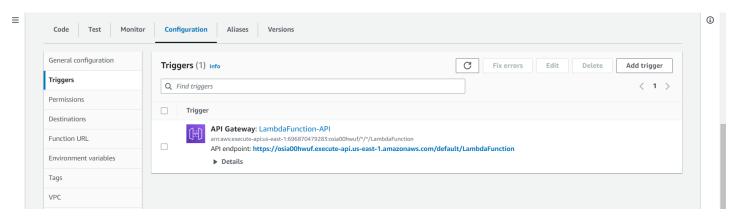


2. Now add API Gateway as a Trigger to handle API Request.



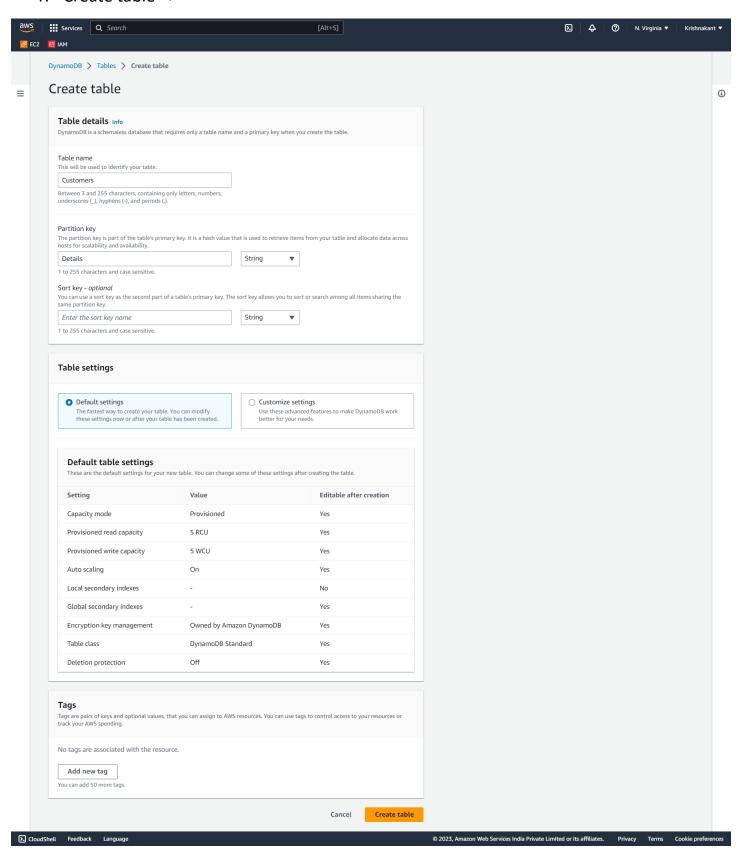
You'll see the API Endpoint in the configuration tab (Mouse cursor).

That's where we'll send API request with data.



Step2: Now before writing code. We'll create Dynamo DB.

1. Create table =>



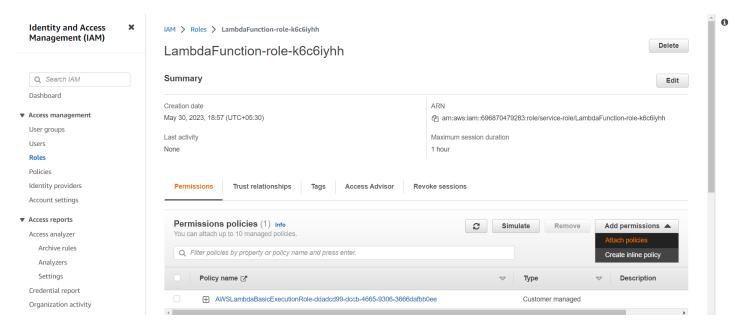
Now database is created. Note the Partition key we'll need it after words

Step3: Now give DynamoDb permission to Lambda using Roles.

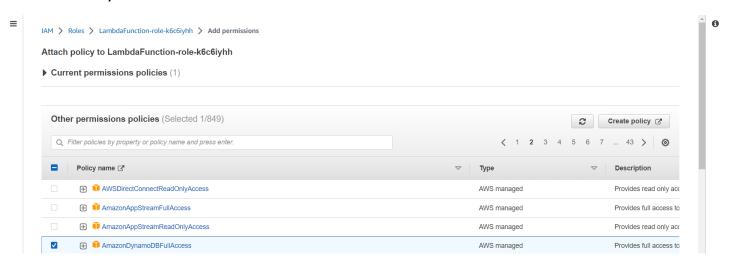
1. Head to Permission tab in Configuration. Select the role that's created by default.



2. Now in 'add permission' > Attach policy.

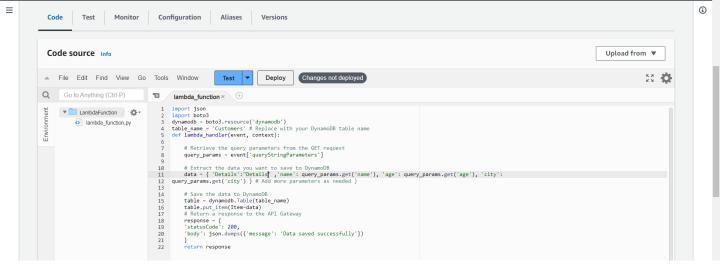


3. Give 'DynamoDBFullAccess'



Step4: Now Write code which takes HTTP parameters and save that into the Dynamo Database.

1. Write Json code in lambda function



```
import json
import boto3
dynamodb = boto3.resource('dynamodb')
table name = 'Customers' # Replace with your DynamoDB table name
def lambda handler(event, context):
   # Retrieve the query parameters from the GET request
    query params = event['queryStringParameters']
   # Extract the data you want to save to DynamoDB
   data = { 'userid':"1" ,'name': query_params.get('name'), 'age':
query params.get('age'), 'city':
query params.get('city') } # Add more parameters as needed
   # Save the data to DynamoDB
   table = dynamodb.Table(table_name)
   table.put_item(Item=data)
   # Return a response to the API Gateway
    response = {
    'statusCode': 200,
    'body': json.dumps({'message': 'Data saved successfully'})
    }
    return response
```

2. Create Test environment to debug any errors.

```
"queryStringParameters": {
         "email": "kksoni0203@gmail.com ",
         "password": "test@123"
}
                                                  Configure test event
                                                 A test event is a JSON object that mocks the structure of requests emitted by AWS services to invoke a Lambda function.
                                                 Use it to see the function's invocation result.
                                                  To invoke your function without saving an event, modify the event, then choose Test. Lambda uses the modified event to
                                                 invoke your function, but does not overwrite the original event until you choose Save changes.

    Create new event

    Edit saved event

                                                 Event name
                                                  MyEvent
                                                                                                                                           Delete
                                                    Event JSON
                                                         "queryStringParameters": {
    "email": "kksoni0203@gmail.com ",
    "password": "test@123"
```

Now, after you make any changes. Deploy it then click the Test button. You'll see the code running and Errors and output



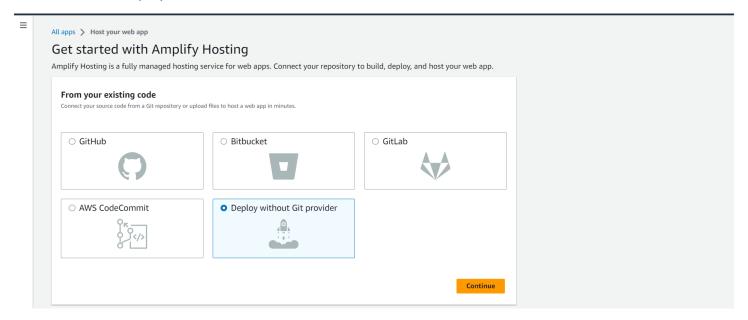
Step5: Create index.html file in text editor

Note: Replace the Action value with your API Gateway Endpoint.

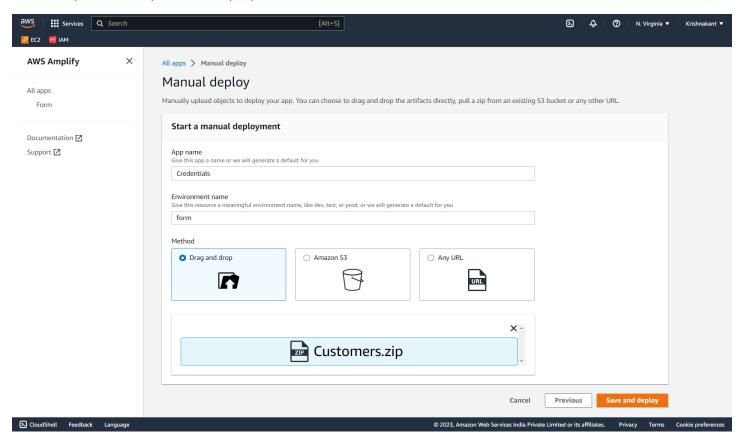
Add this index.html in a folder and Zip/Archive it.

Step6: Create a AWS Amplify Web Project.

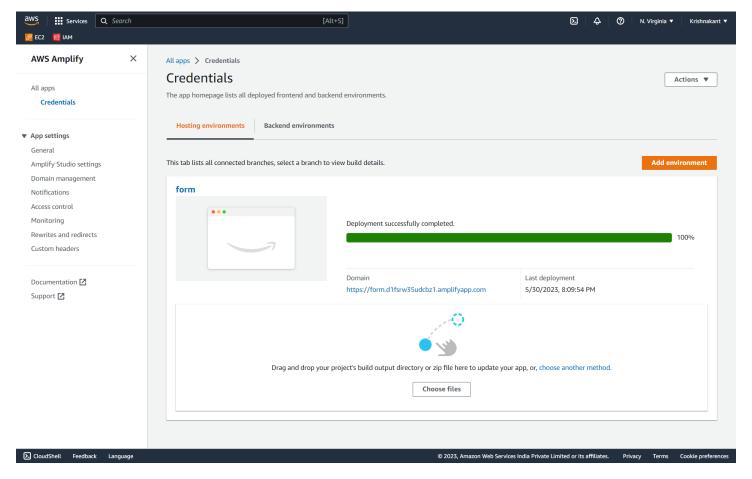
1. Choose "Deploy without Git Provider"



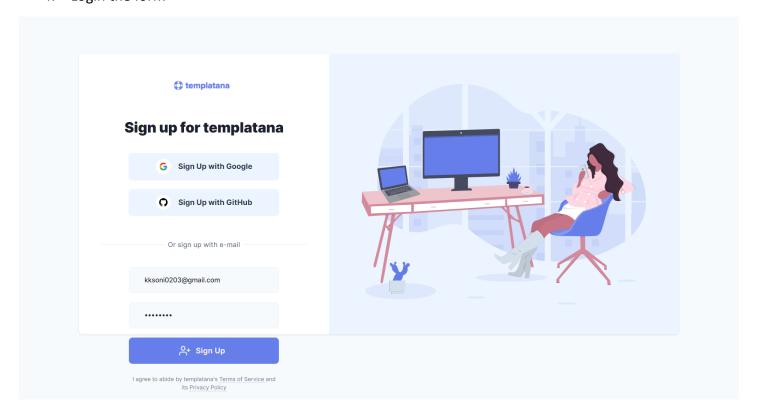
2. Upload the Zip file on Amplify



3. Click on Domain Link



4. Login the form



5. The data store in the RDS database

