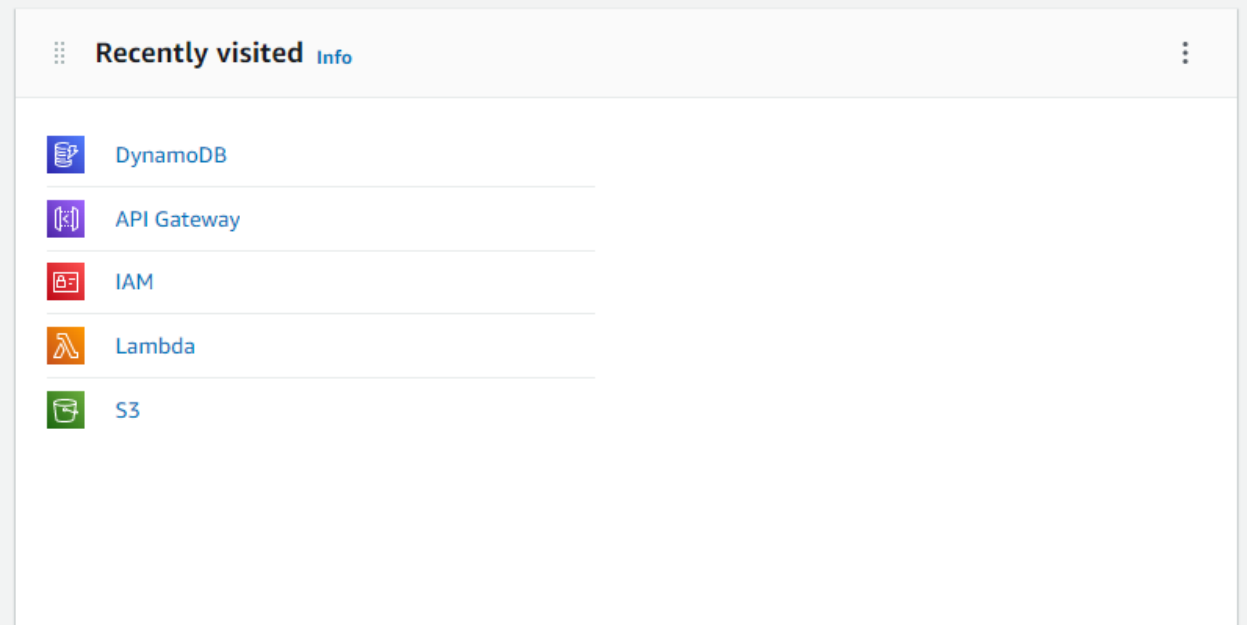
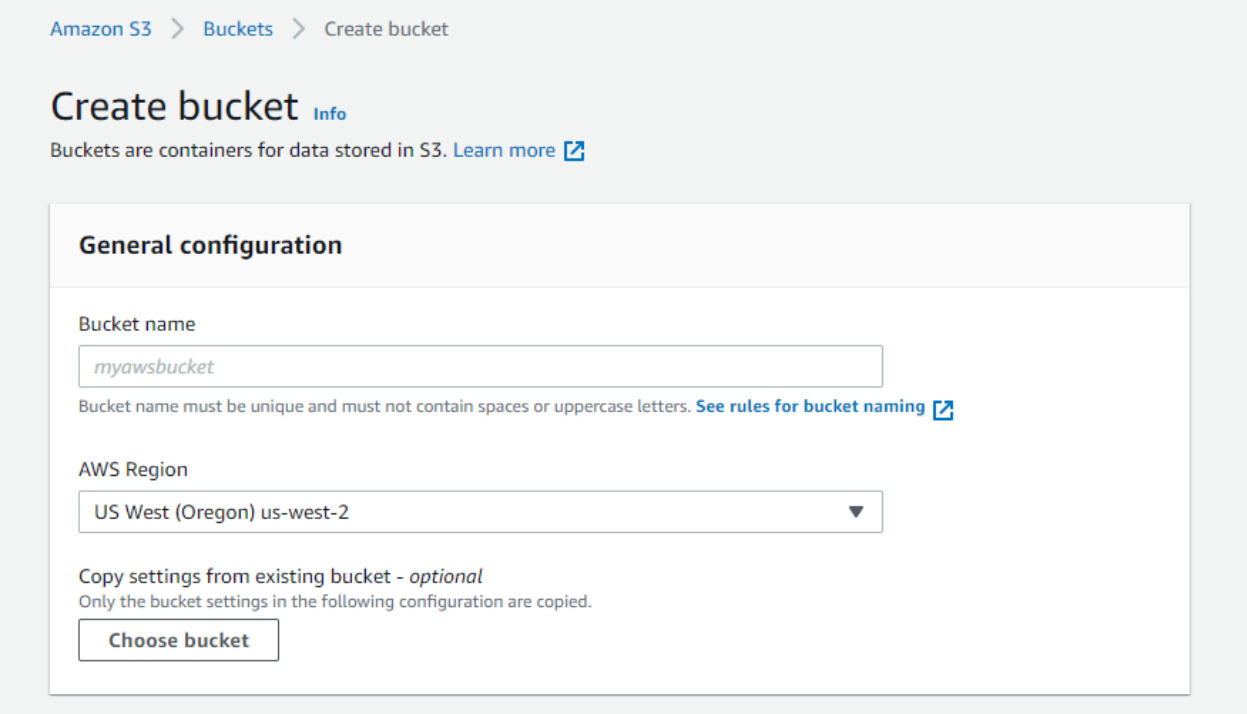


S3

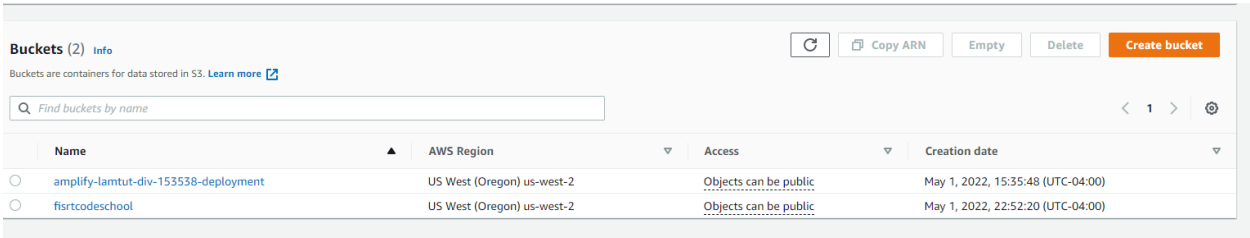
Steps to upload a web application file in s3 bucket.

First of all we have to create a bucket with some requirements as public .



After creating a bucket we can see created buckets in dashboard.

Firstcodeschool is my bucket name for lambda.

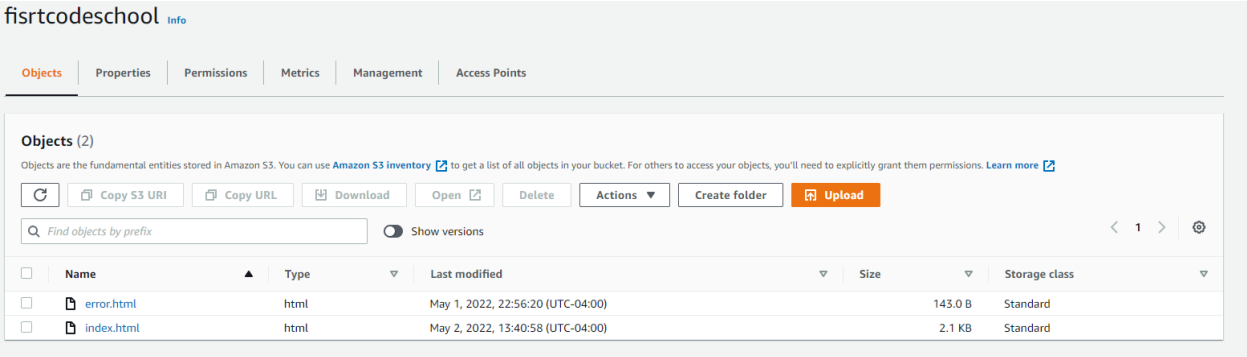


Then I upload index.html and error.html files in my bucket.

After that I have given permission to public access

So that It will create one http link to access our html files.

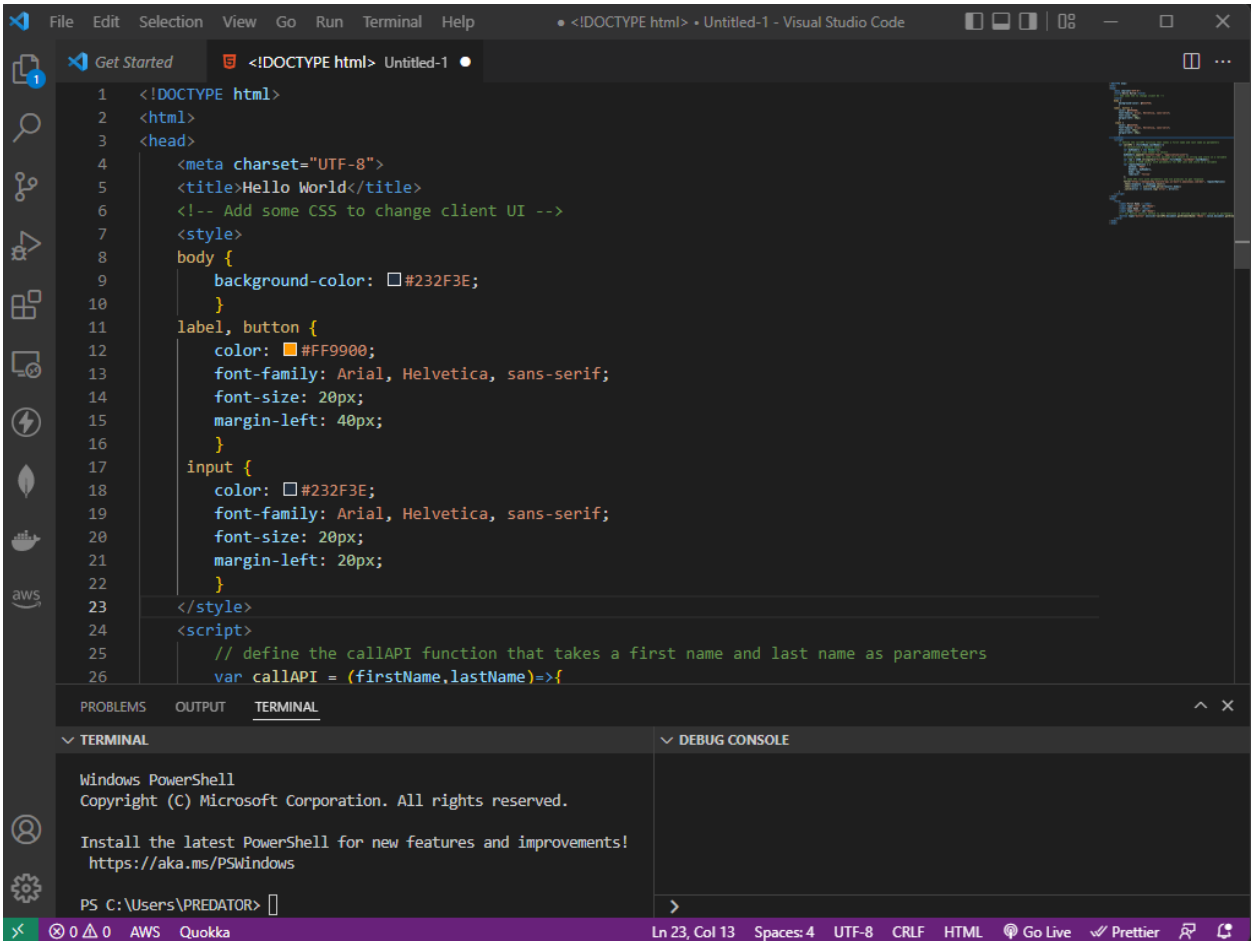
https://fisrtcodeschool.s3.us-west-2.amazonaws.com/index.html



I finished with s3 bucket.

By using VS code

I have created a code and deployed into aws using terminal and extensions in vscode.



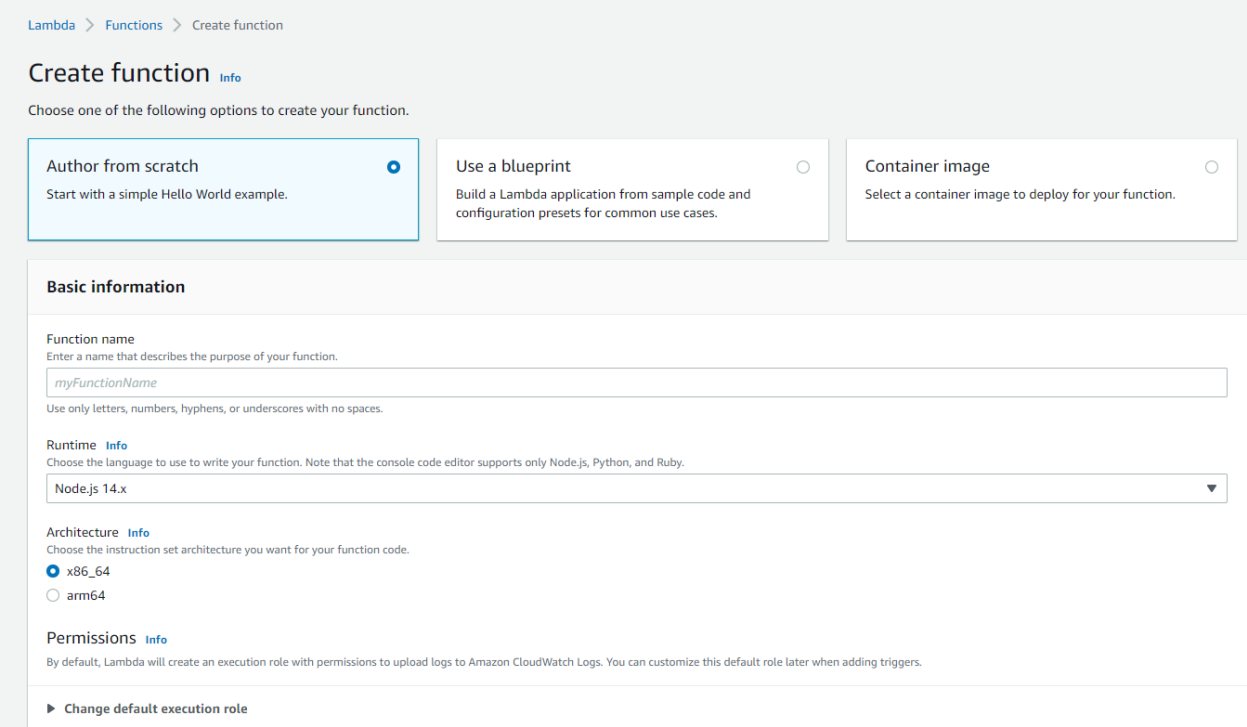
Lambda

Step to create lambda function

First, we have selected a create function button from dashboard then

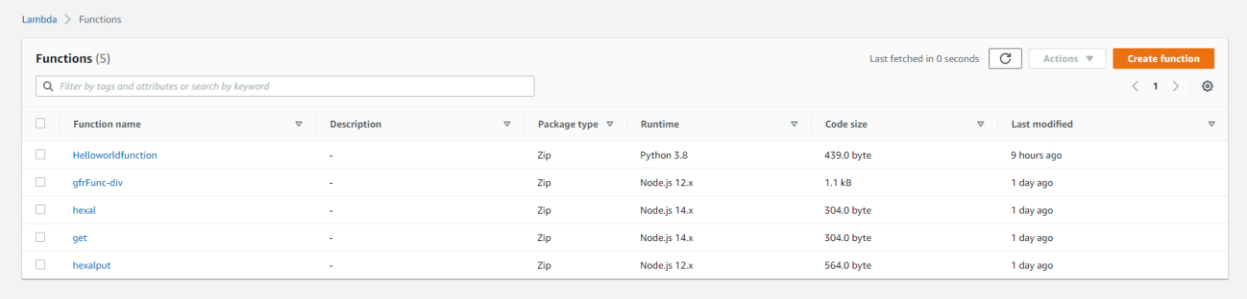
We must give Function name and runtime so I have given python 3.8

After that some we have to give some permission setting according to the files.



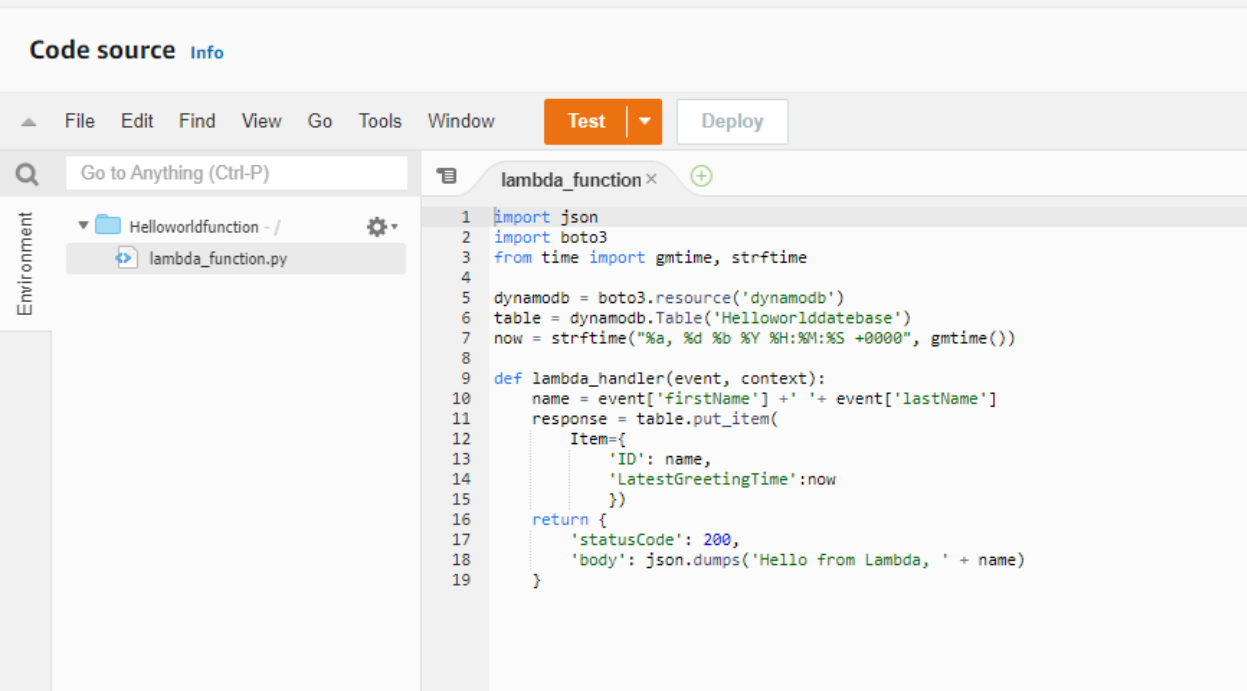
After creating function we can see created function on dashboard

Below is my function for this task Is Helloworldfunction



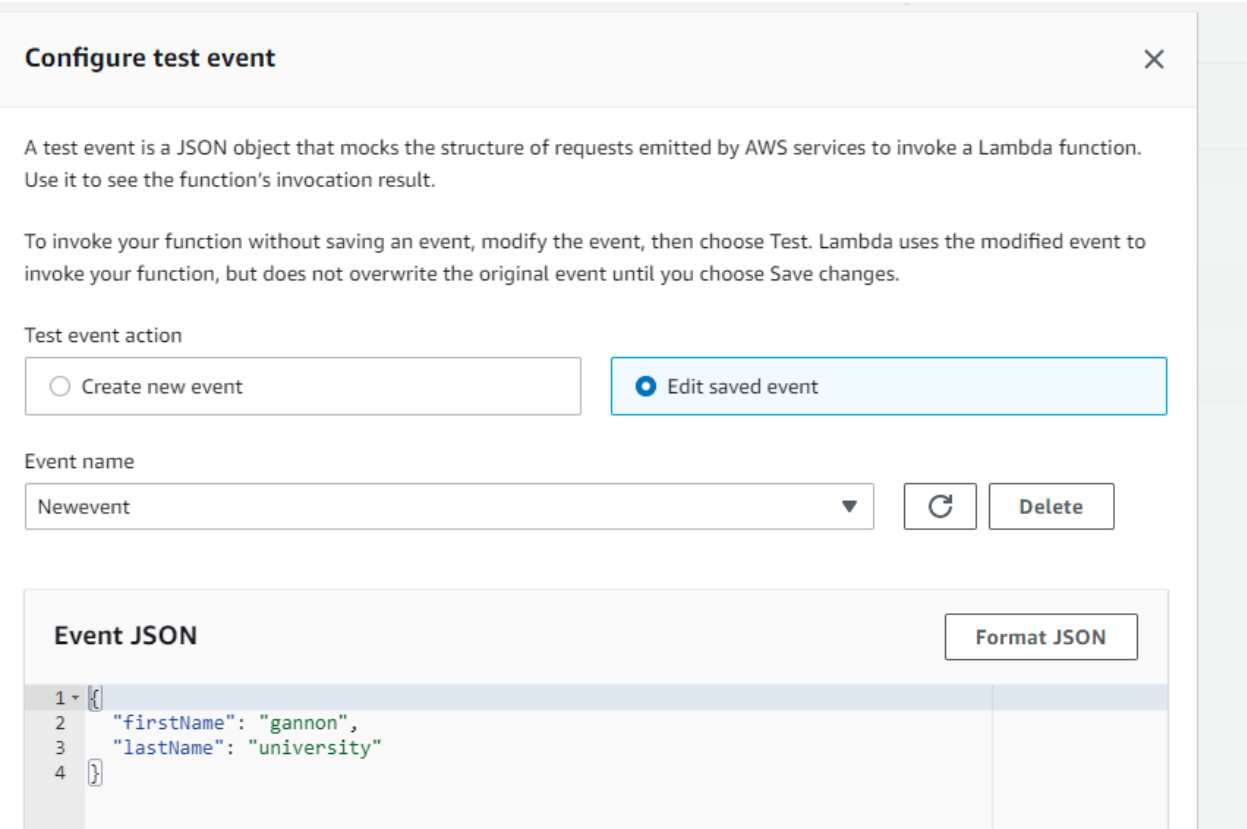
Then we can see some tabs that are code, Test, Monitor, configuration and etc.

In code tab we must create a code, so I copied a code form GitHub and I pasted in pad.



In this code we created some import json and some events to get First name and Last name .

With some status code 200.



To Test the code we have to configure test event

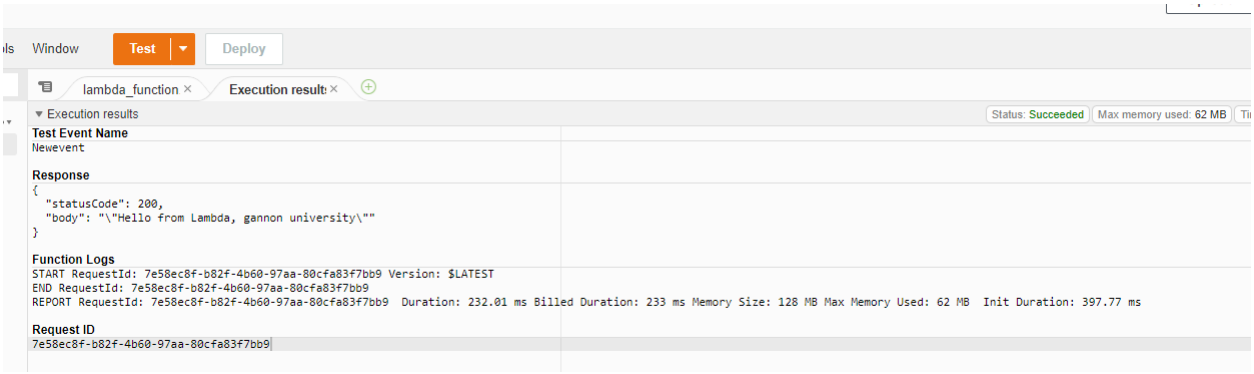
With create new event

Event name

And event json

In this json we have to create a api so I created firstname and lastname.

Then save the file.

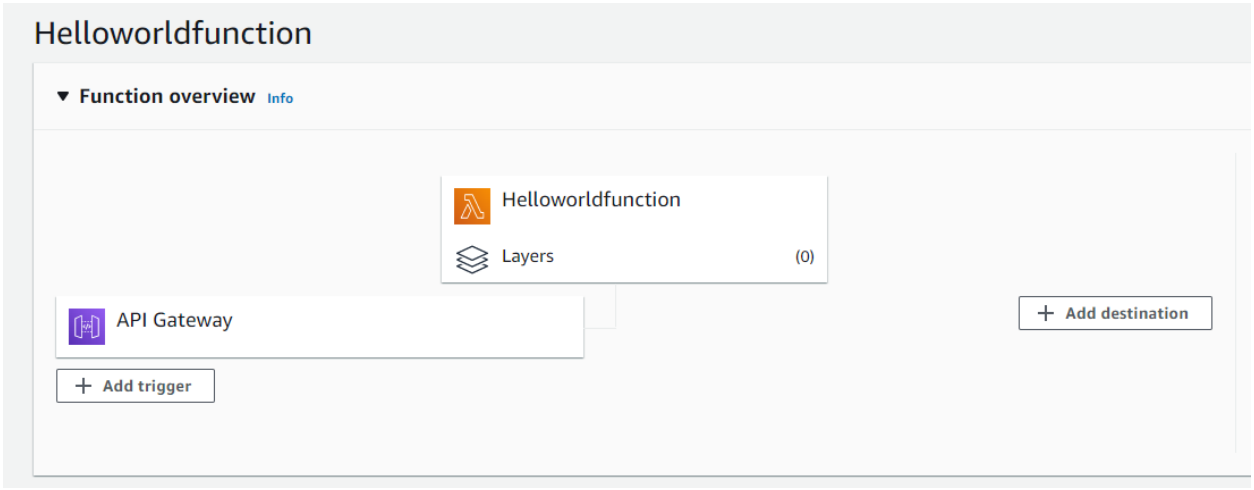


To test the code we have to deploy a code then we have test code.

We code get success run then we can see execution result about code result.

Like statuscode:200

Hello from lambda



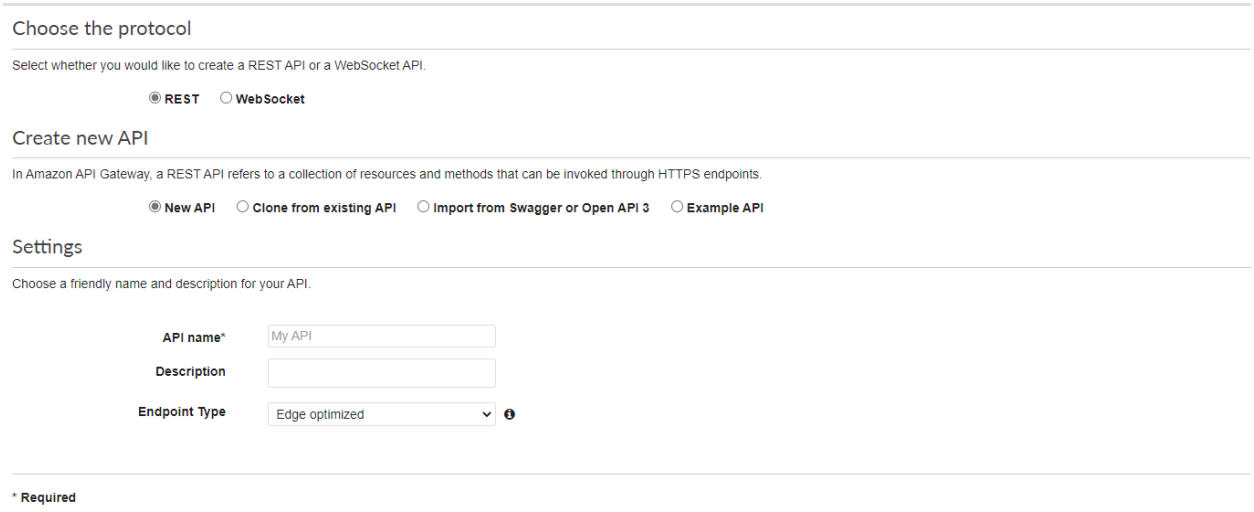
After that we have to connect with API Gateway to lambda to run function on website.

API Gateway

Step to create a API Gateway

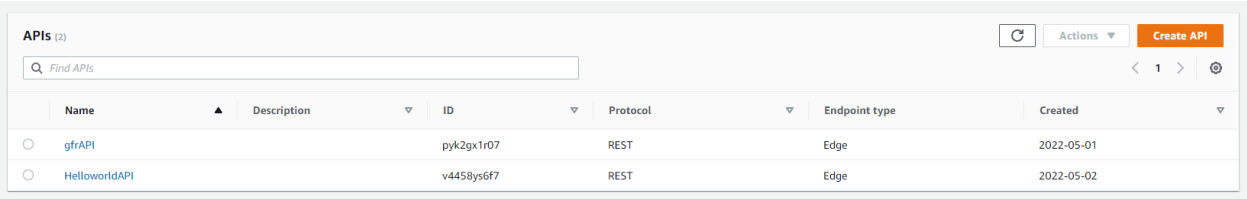
First I have selected a build rest API to build a api then

We have to some names and region details to work .

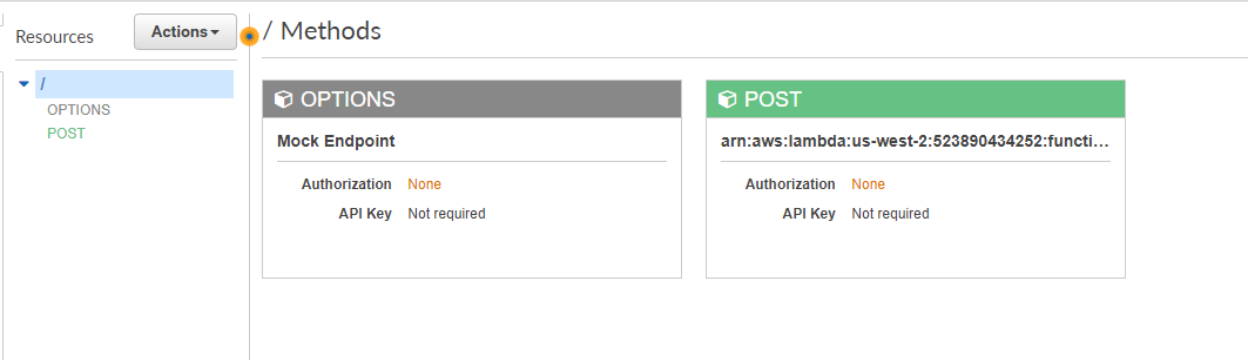


After creating a api we can see APIs in dashboard

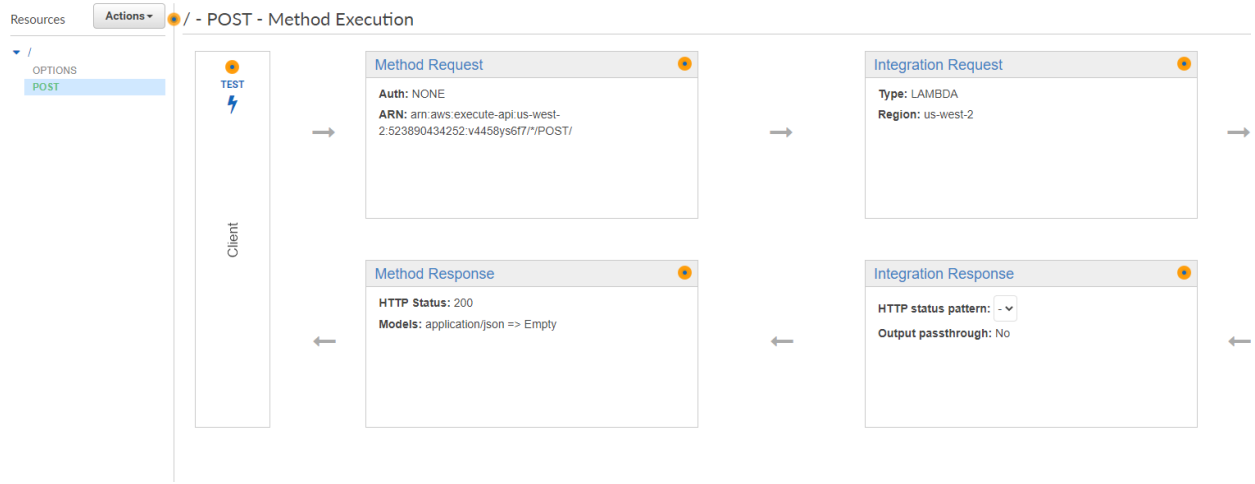
Helloworld is the api I created for this task



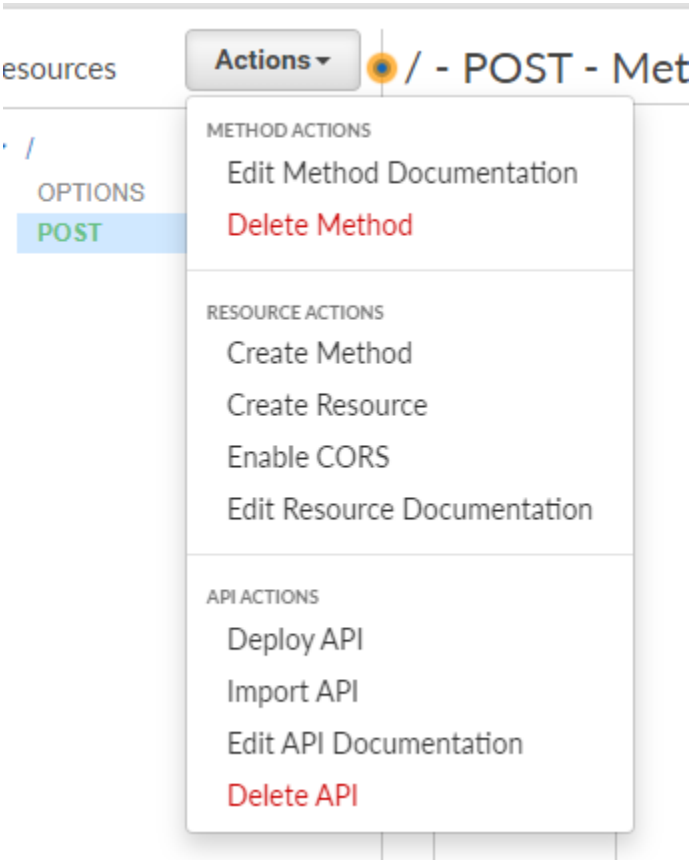
After that I have selected a action as post



Then we can see connection api to connect to lambda

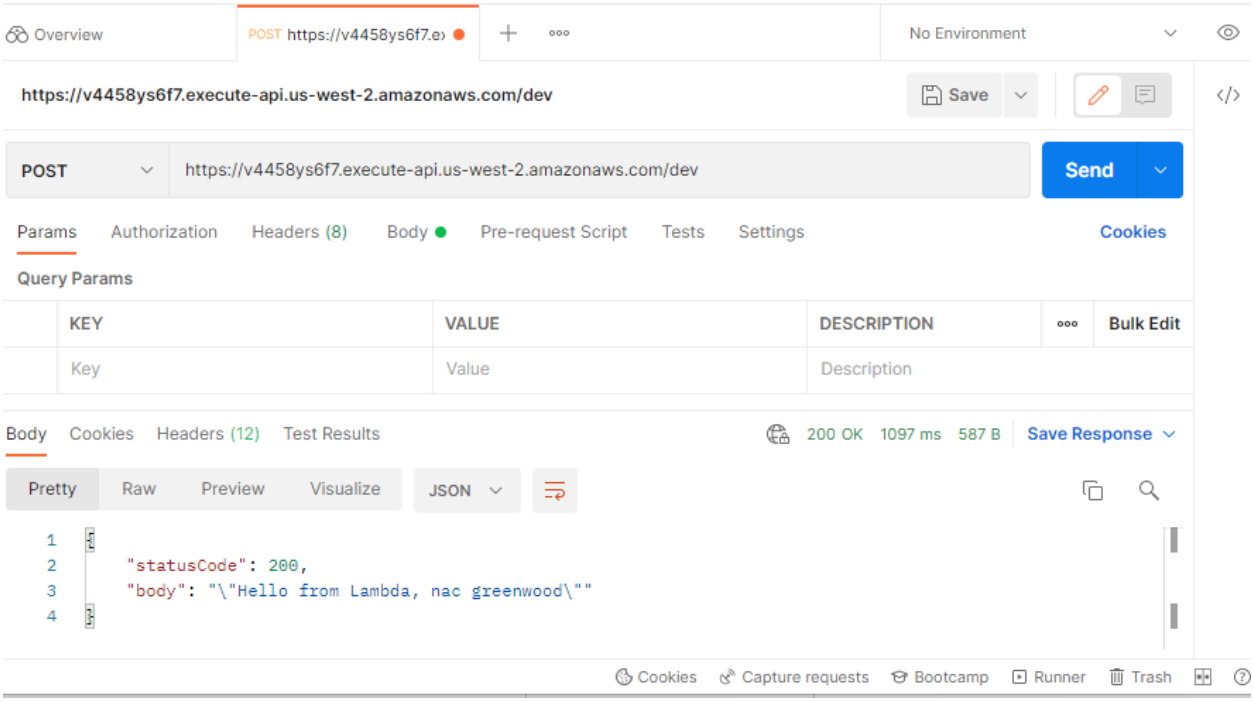


After that I edited cors and deploy API s



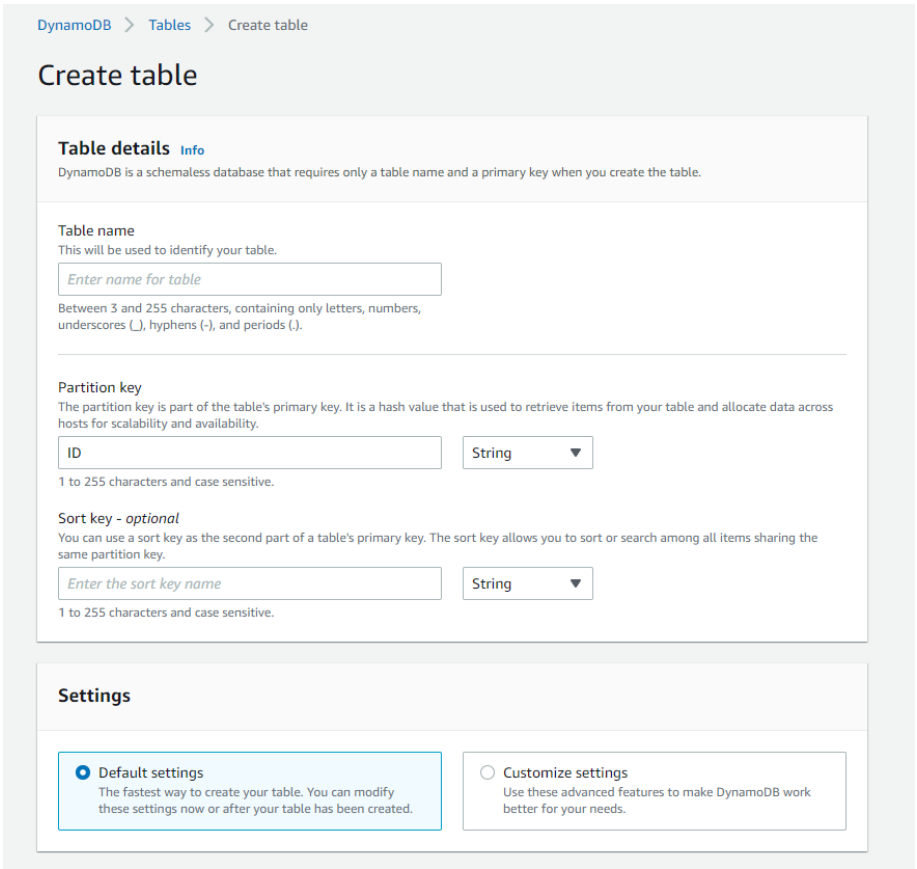
To check api are working I have coped a link from aws api gatway then pasted POSTMAN

So it showed we good results its working



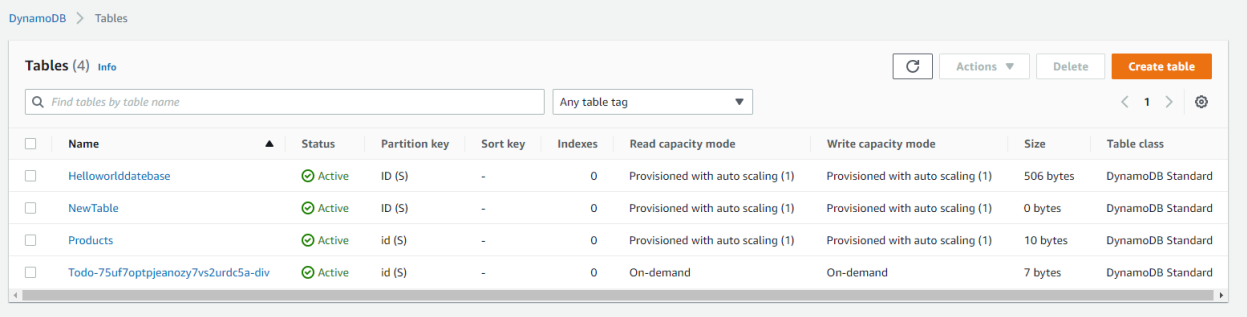
Dynamo DB

Step to create a table and link to Lambda function



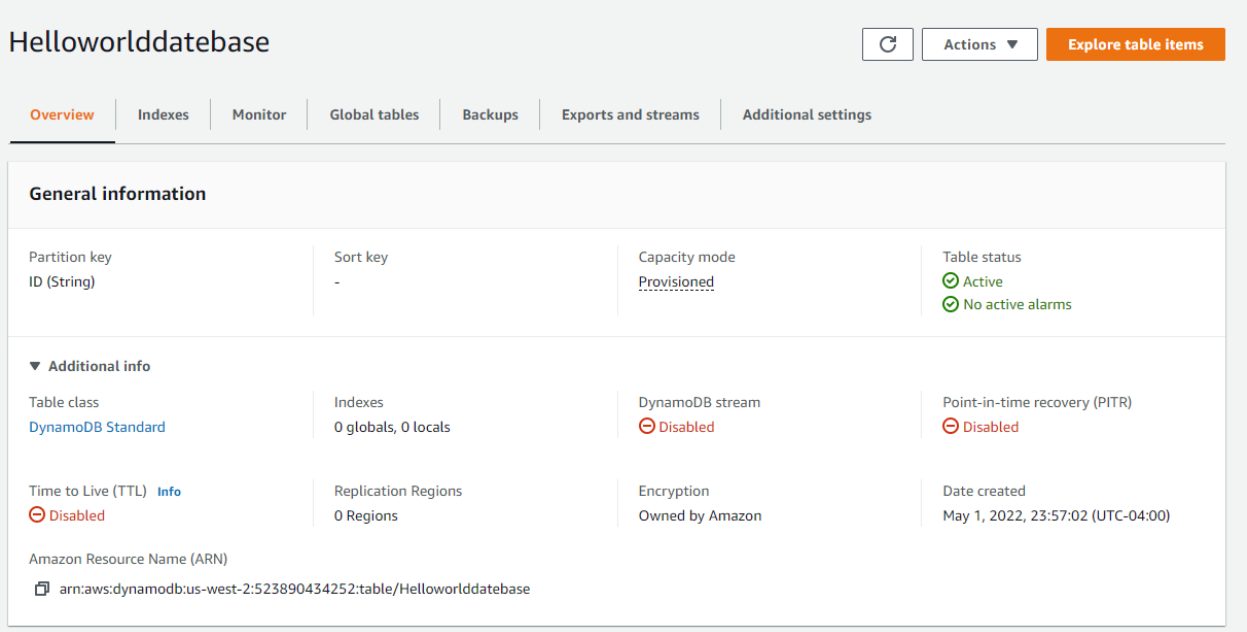
First of all I have created a table

By giving a table name, partition key and some default settings .



We have see our tables what we created on dashboard.

For this task Helloworlddatabase is table name .

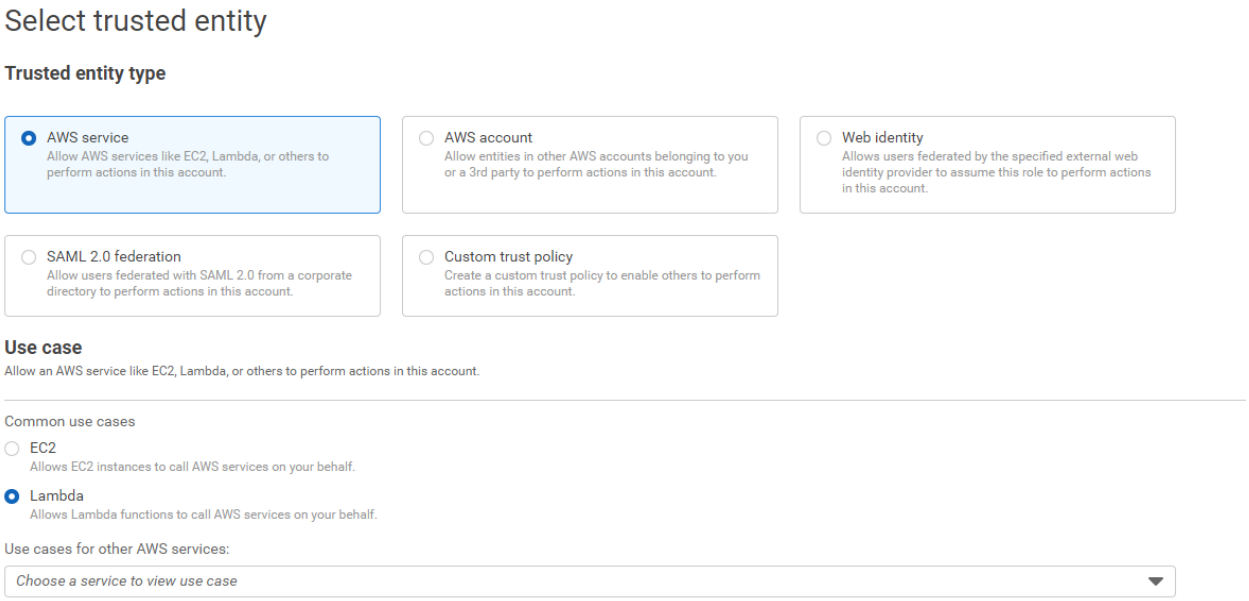


These are full details of our table

We have copy the ARN (amazon resource name) from here and we have paste this link in lambda in policies to get link those two functions.

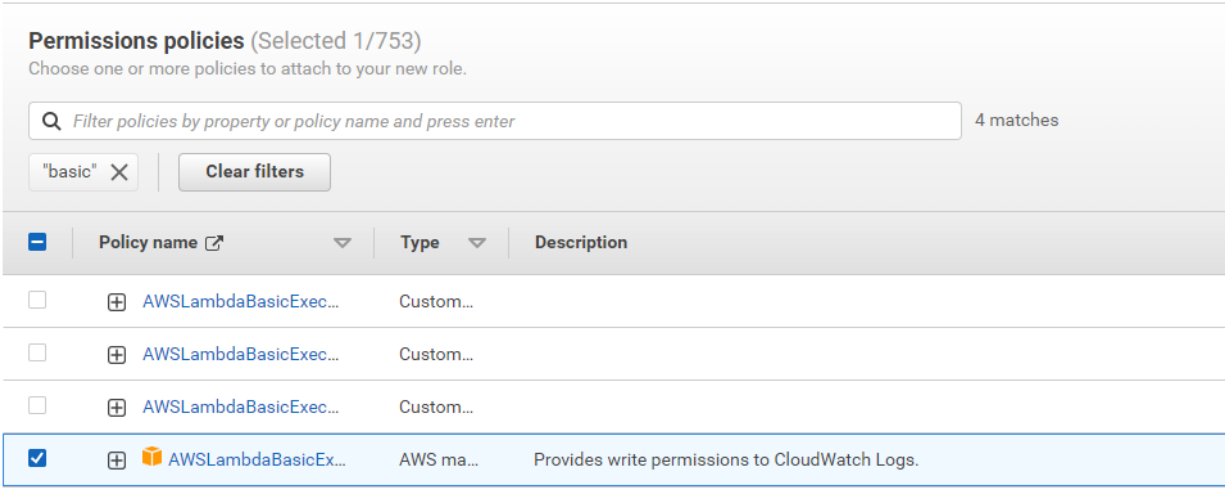
IAM

Steps to create a IAM roles for DynamoDB



We have select trusted entity to create a role so I selected aws services with lambda function

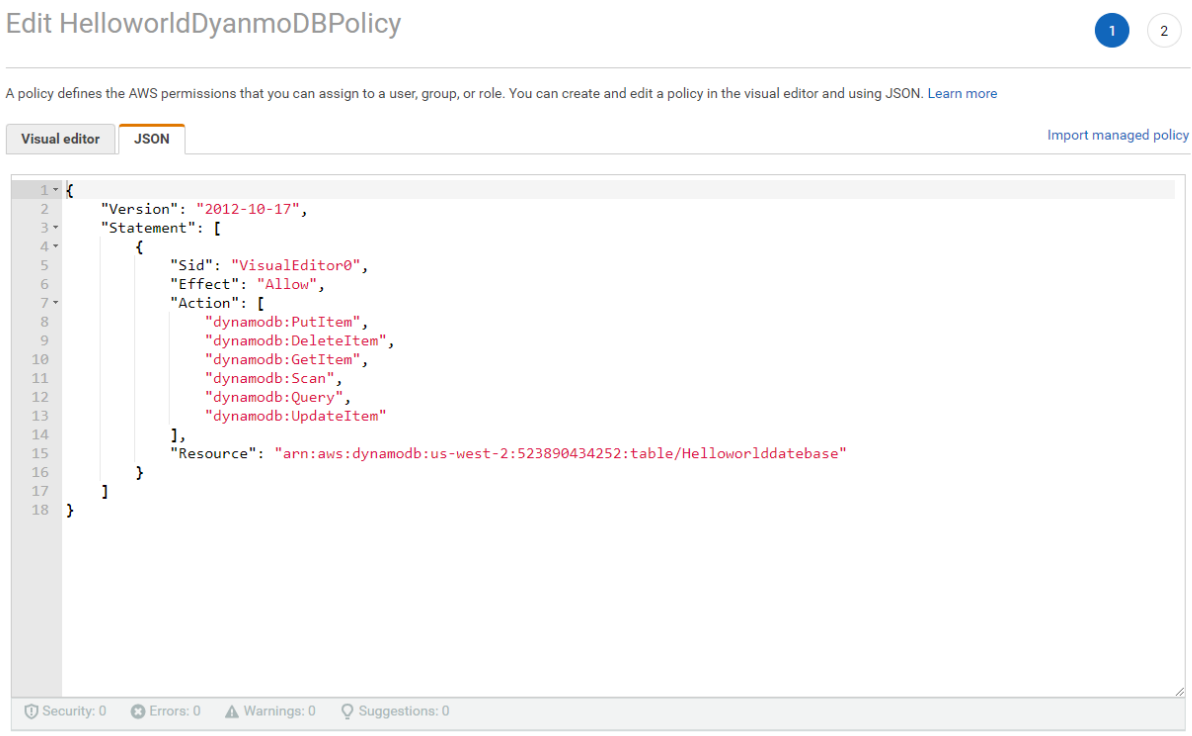
Then after we have to give a permissions polices for that so I have selected AWSLambdaBasic Execution from using search bar.



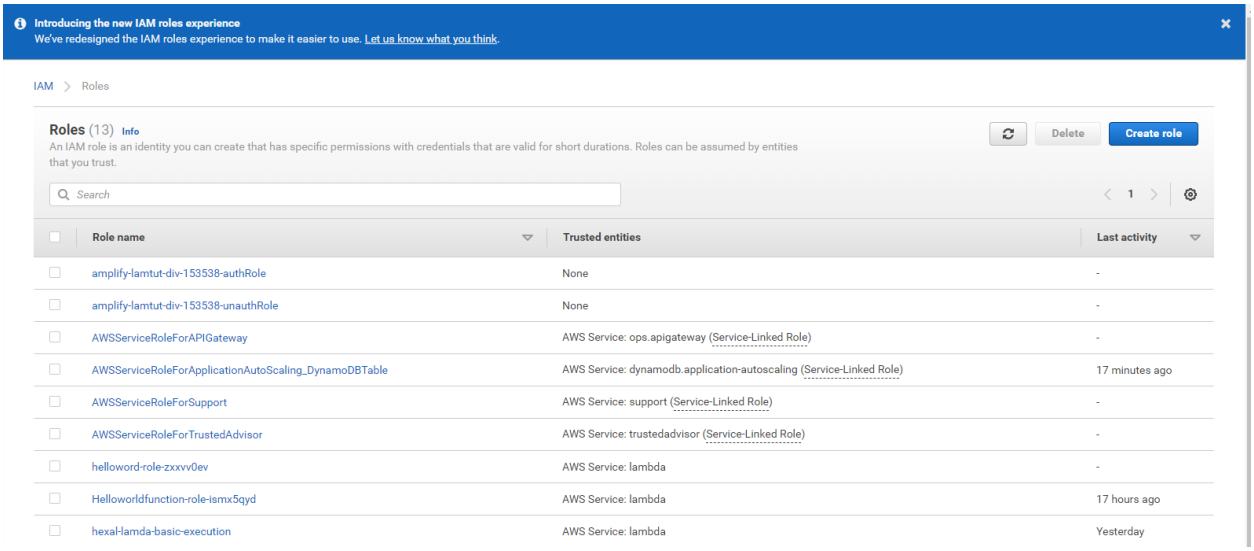
After that we have to give policy to run lambda function

so here two option to give policy like visual editor and json format.

So I have selected Json format to create a policy.



In this policy I have given related to code like putitem , DeleteItem, GetItem, scan, Query and UpdatItem.



After reviewing the policy then we can see roles on dashboard.

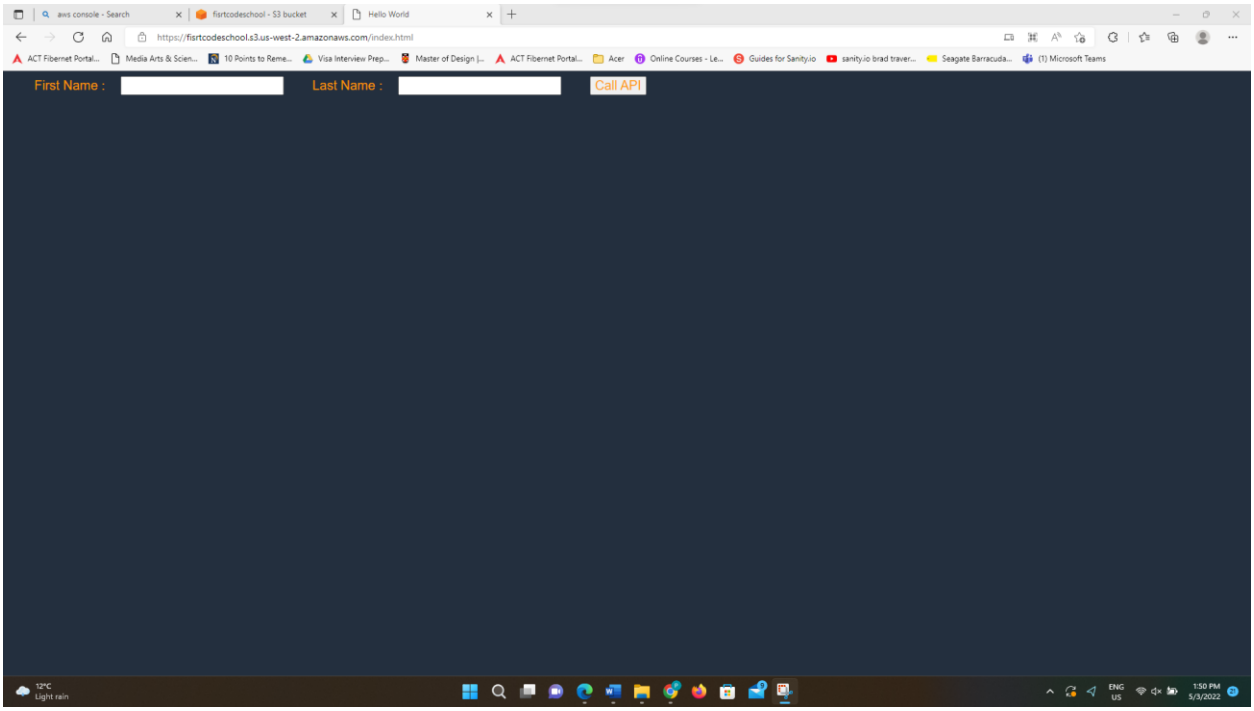
We have finished all task now.

Output of Lambda Function DynamoDB

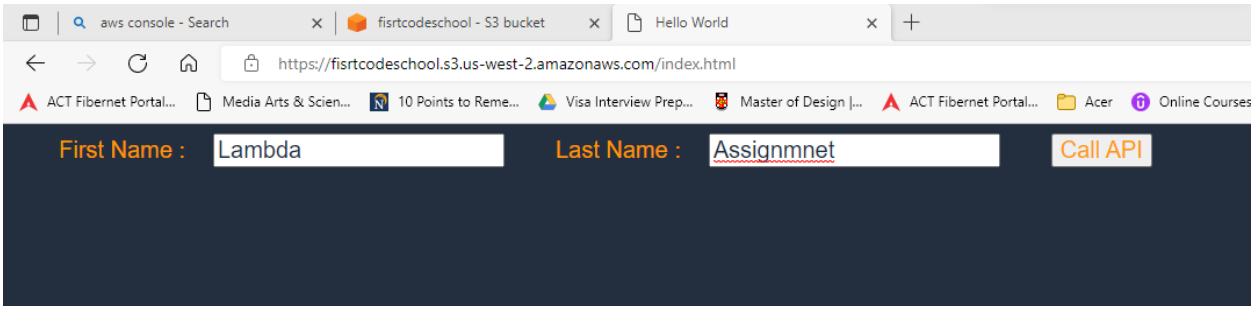
First we have to go back to S3 bucket and select our index.html file to open on browser.

Hello World (amazonaws.com)

https://fisrtcodeschool.s3.us-west-2.amazonaws.com/index.html



This is the page we created in vscode by using html, css and python.

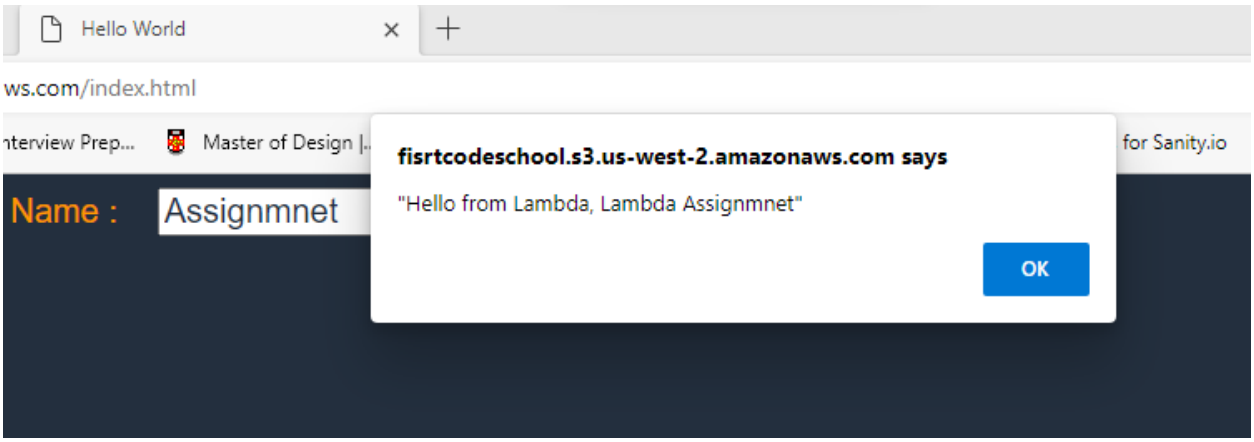


Then we have to type anything on tabs to reflect on DynamoDB by using Lambda.

While clicking on call Api

We can see a pop on browser to show the output

“Hello from Lambda Assignment”



We can see our api what we called on browser it will say on DynamoDB on Items.

Total I have created 7 items and we can create more api and it will directly save on table.

We can also delete items from table.

And we can update table settings in DynamoDB.