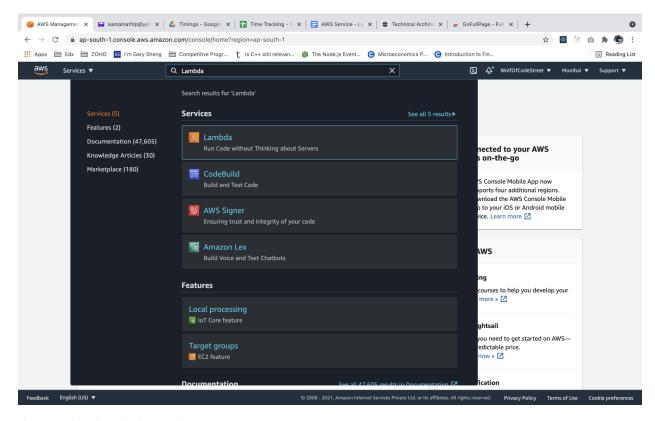
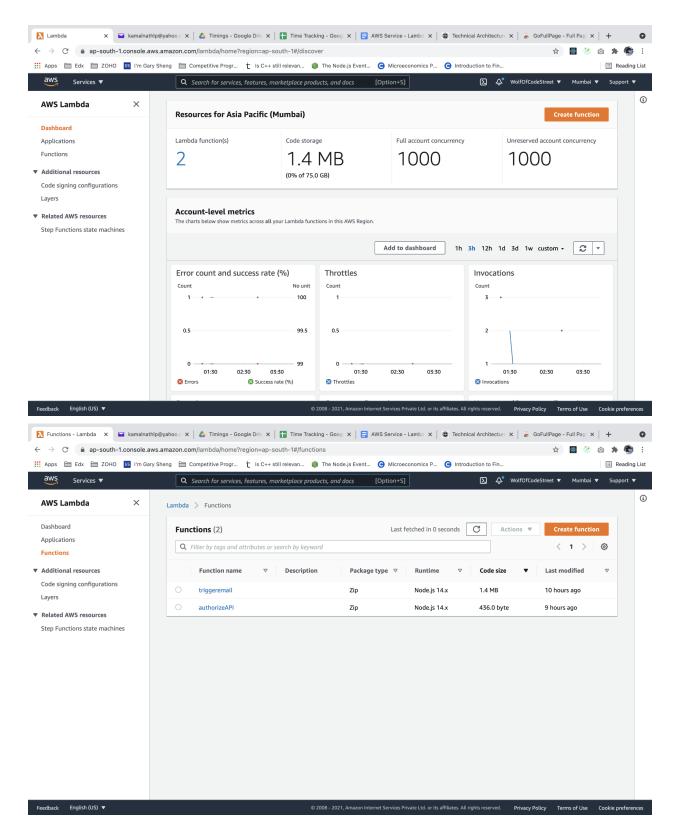
## Guide to implement AWS Lambda function with API Gateway:

- 1. Create an AWS Account
- 2. On the search bar, enter the value as follows: "Lambda". Following results will be listed,



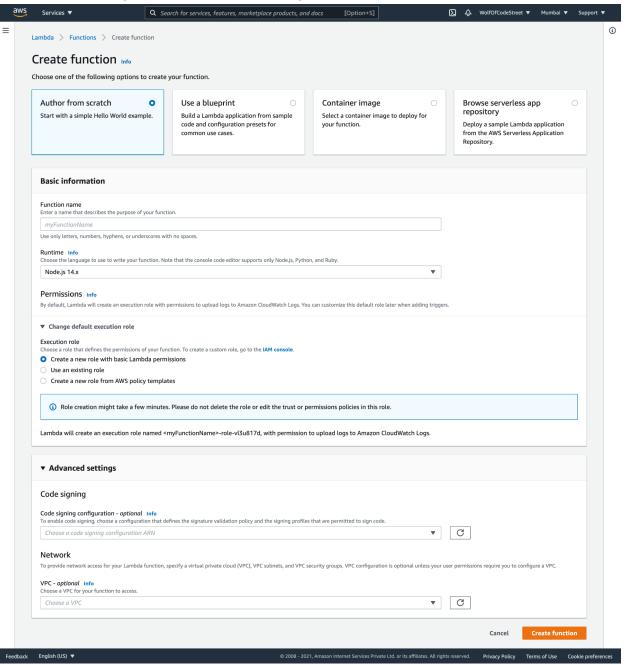
choose the Lambda service.

3. After clicking on the lambda service, you will be redirected to the Lambda service dashboard page. Over there choose the "Function" tab in the sidebar.

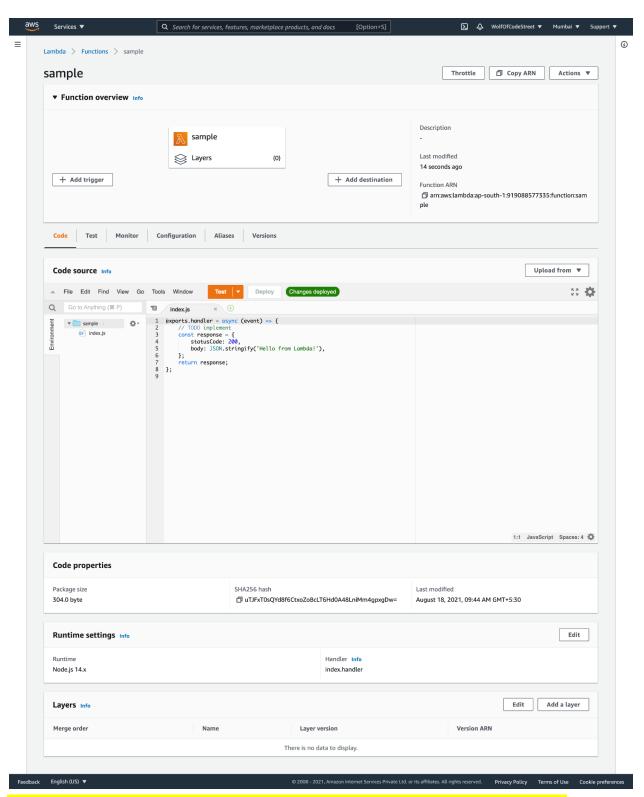


After choosing the Function tab, click on the "Create Function" button.

4. Create Function Page will look like the following,

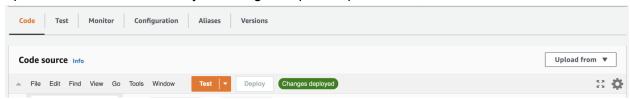


- a. Choose "Author from scratch" type
- b. In the Basic Information accordion, enter the following values
  - i. Function Name triggeremail
  - ii. Runtime Node.js 14.x
  - iii. Execution role Create a new role with basic lambda permissions
- 5. After entering the values, click on the create function button.
- 6. Next step, page will be redirected to the function page and page will look likes following ( sample),



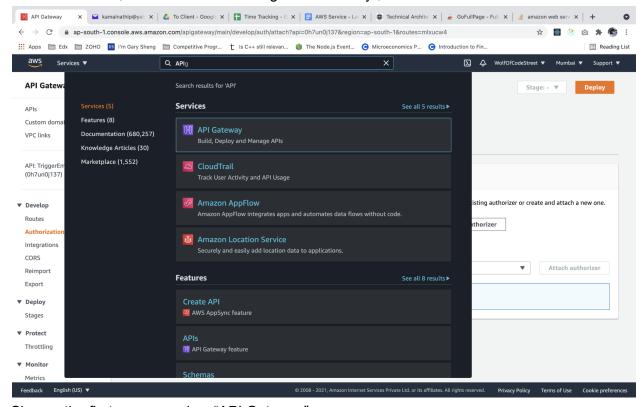
Download the zip file "triggeremail-f5d83dad-eab8-4299-9166-cdb7e12a9105.zip" (You will find the file in the directory which is shared with you).

7. Upload the downloaded file by choosing the option "upload from",

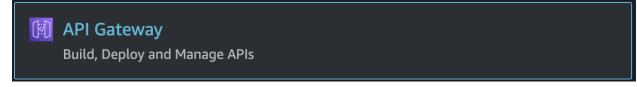


After uploading, click on the "Deploy" button next to the "Test" button (if deploy button is enabled).

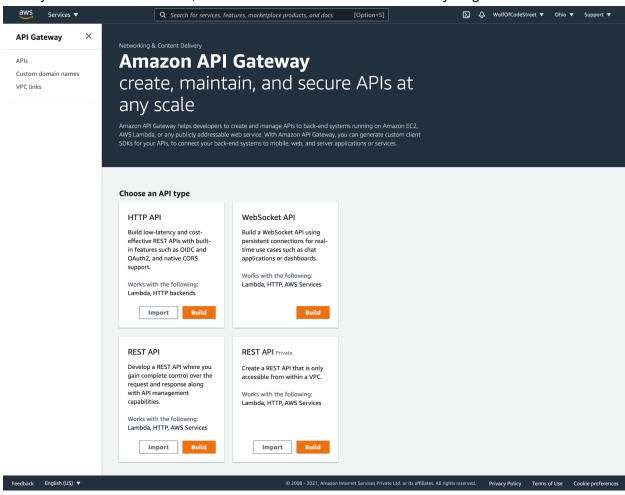
- 8. After creating the aws lambda function, we need to create an "API gateway" to create the URL routing to access the lambda function.
- 9. In the search bar, search for the following "API Gateway",



Choose the first one named as "API Gateway".

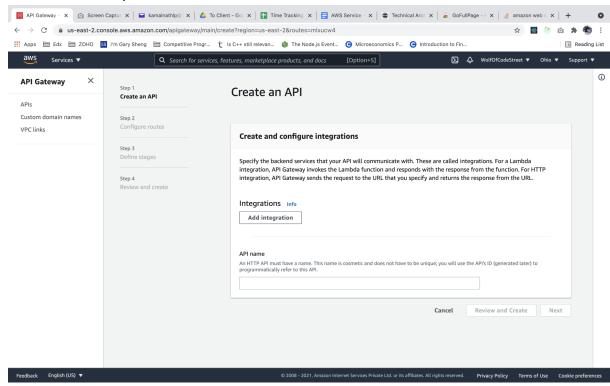


10. Once you click on the service, it will be redirected to the APi Gateway Page

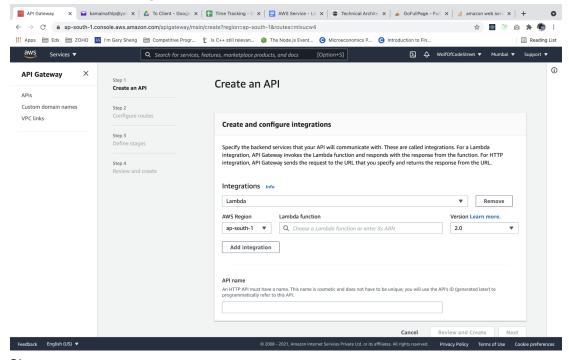


a. Choose the Build in "HTTP API"

b. There are four steps to create the API Route,



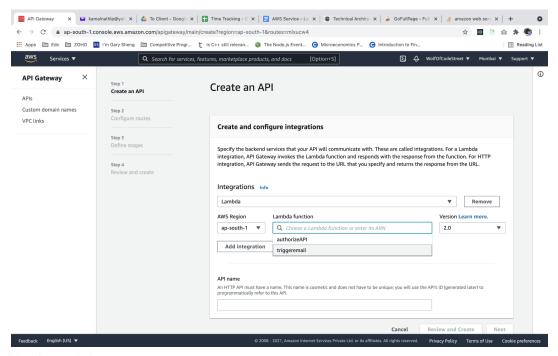
i. Click on the "Add Integration", in the dropdown choose Lambda function.



Choose,

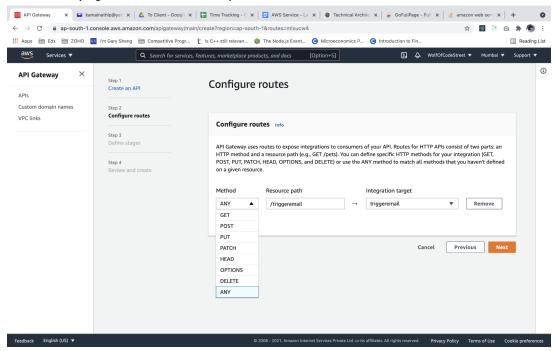
AWS Region = ap-south-1,

Lambda Function once you click on the input field, our trigger email function will show up.



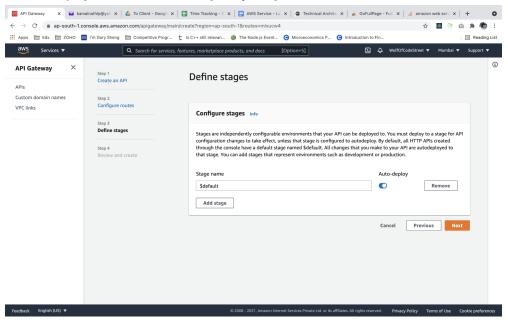
Version = 2.0

- ii. Enter the API Name TriggerEmail
- iii. Click on Next
- iv. On the next page, it will ask for the api route method as follows,

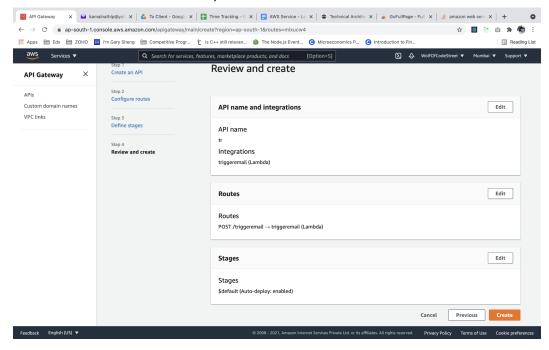


Choose the POST Method and click on the Next button

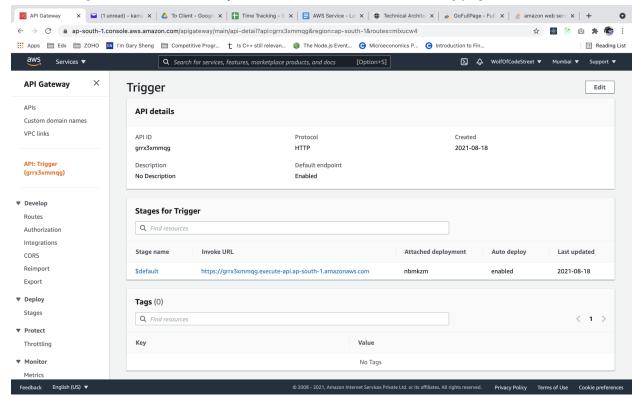
v. Leave the page as it is don't change anything and click on next,



vi. At last click on the Create Button,



c. After Clicking on the create button, you will be redirected to the following page.



d. Copy the Invoke URL. It is the base url.Our URL to trigger the mail is <BASE URL>/triggeremail

```
const fs = require('fs');
const nodemailer = require('nodemailer');
const handlebars = require('handlebars');
const smtpTransport = require('nodemailer-smtp-transport');

const sessUsername = 'abc@example.com'; // Replace with your username
const sessPassword = 'passss#ss###'; // Replace with your password

exports.handler = async(event) => {
   console.log(event);
   const requestBody = JSON.parse(event.body);
   const body = fs.readFileSync('./templates/order.html').toString();

const template = handlebars.compile(body);

let result = null;
```

```
const replacement = {
    "order id": requestBody && requestBody.order id,
    "customer email": requestBody && requestBody.customer email,
    "customer mobile": requestBody && requestBody.customer mobile,
    "customer_name": requestBody && requestBody.customer_name,
    "products": requestBody && requestBody.products,
    "total amount": requestBody && requestBody.total amount,
    "tax details": requestBody && requestBody.tax details,
    "bill amount": requestBody && requestBody.bill amount,
 };
 const data = template(replacement);
 const transport = nodemailer.createTransport(
    smtpTransport({
      host: "smtp.mail.yahoo.com", // Replace with your SMTP settings, check
your email provider
      port: 465,
      secure: true, // true for 465, false for other ports
       user: sessUsername,
       pass: sessPassword,
     },
   })
  );
 const text = 'Email body goes here';
 const mailOptions = {
   from: sessUsername,
   to: requestBody && requestBody.customer_email,
    subject: `Order Confirmation - ${replacement.order id}`,
   text: text,
   html: data,
 };
 console.log(`\nMessage Sending: -----\n`);
 try {
    const response = await transport.sendMail(mailOptions);
    console.log(`${requestBody && requestBody.customer name} -
${JSON.stringify(response)}`);
```

```
if (response && response.accepted && response.accepted.length) {
      result = {
        statusCode: 200,
        body: {
          errCode: 1,
          errMsg: `Successfully Delivered to ${response.envelope &&
response.envelope.to && response.envelope.to[0] && response.envelope.to[0] }`
        }
      }
    }
    else {
      result = {
        statusCode: 202,
        body: {
          errCode: 0,
          errMsg: `Successfully Not Delivered`
        }
      }
    }
  }
  catch (error) {
    console.log(error);
    result = {
      statusCode: 200,
      body: {
        errCode: 2,
        errMsg: `Successfully Not Delivered`
      }
    }
  }
  console.log(JSON.stringify(result));
  return {
    statusCode: result.statusCode,
    body: JSON.stringify(result.body)
  };
};
```

## Sample Request:

```
Method: POST
Body:
{
    "order_id": "order_1",
    "customer_name": "Demo User",
    "customer_email": "exaple@gmail.com",
    "customer mobile": "999999999",
    "products": [
        {
            "name": "T-Shirt",
            "quantity": "2",
            "unit_price": "400",
            "sub_total_amount": "800"
        },
            "name": "Trouser",
            "quantity": "2",
            "unit_price": "400",
            "sub_total_amount": "800"
        },
            "name": "Pant",
            "quantity": "2",
            "unit_price": "400",
```

Response:

}

],

On Success:

{"errCode":1,"errMsg":"Successfully Delivered to <a href="mailto:codingbysports@gmail.com"">codingbysports@gmail.com</a>"}

On Failure:

{"errCode":2,"errMsg":"Successfully Not Delivered"}

"sub\_total\_amount": "800"

"total\_amount": "2400",
"tax\_details": "0",
"bill\_amount": "2400"