**To build API with AWS Lambdas and API Gateway:**

API is URL, we can Get, Post, Put or Delete request. In the background they run some code based upon the request we have made. Weather, we want data from database, store information where the customer is hitting on the website.

API gateway is service offered by Amazon. [ requires a Amazon account].

* Create new API.> Actions > create resource > give resource name> also create path
* Once we create resource > click actions > create a method> select Get request
* Once we create request > we need choose Lambda function> for time being we choose Mock.
* To use Lamdba function, we need to create Lambda function

By the above steps we have created API gateway.

To create Lambda, search for Lambda in services.

* Click create function button > and give the name
* And leave as default
* Inside a Role > Create a role and given name
* Then we will land in Lambda console.
* In Console we will write code.
* We will start writing code, starts with request type( GET, POST, etc.)

exports.handler=async(event) =>{

if(event.httpMethod == ‘GET’){

return getItem(event);

}

if(event.httpMethod == ‘POST’){

return createCart(event);

}

};

const getItem = event =>{

let item = {

description: ‘ A red t-shirt’,

colour: ‘red’,

size: ‘Medium’,

price: ‘£8.50’

};

return{

statusCode: 200,

body: JSON.stringify(item)

};

};

const createCart = event => {

let body =JSON.parse(event.body);

// code to get data from database

Console.log(“ this request is passed”);

Return{

statusCode: 200;

body: JSON.stringify({

message: ‘The car was created’

})

}

}

};

* Once Lambda function is written navigate to Resources and edit the request
* Change by clicking Integration Request
* Select Lambda function and select use Lambda Proxy Integration
* choose the Lamdba function search for Lambda function select region.
* Save it and give permission to this Lambda function to be executed.
* Then we get the API
* Similarly, for other Requests.
* Once the above steps done.

Then we have to Deploy API

* Go to Actions > Deploy API
* Then choose a stage where the API will be deployed
* Provide the Deployment stage name and Stage name and Deploy.
* Then we will get the URL.

If we want to test GET request, copy the URL and paste in URL

Pass the parameter.

If we want to test POST request, we cannot do it on browser, we require PostMan or other software.

To check logs to API request/events.

* Go to Lambda Console
* Last modified
* Monitoring
* Cloud watch
* We can see logs to events.