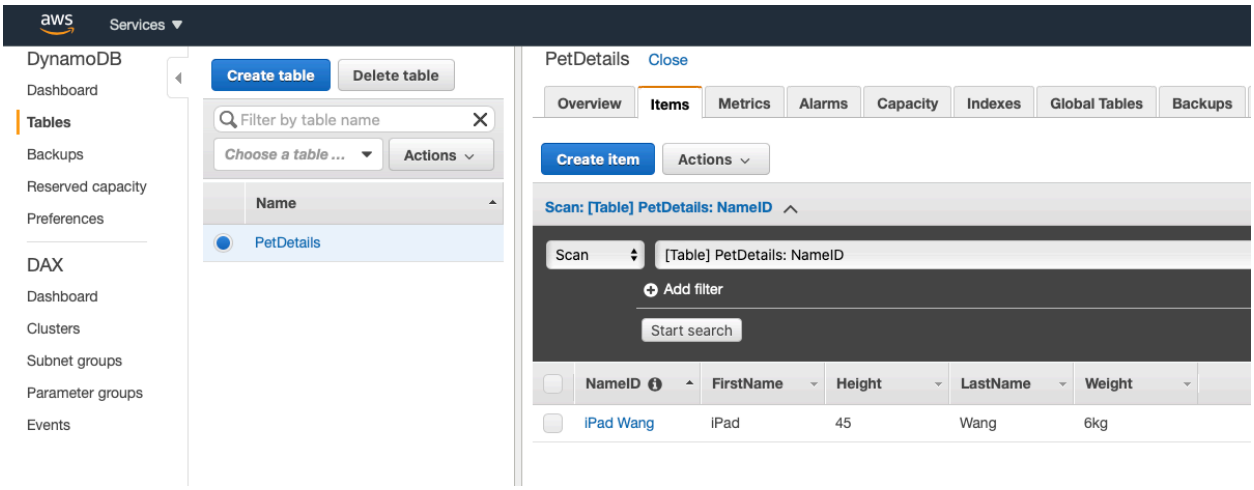
Cloud Computing Homework 2

MyStep1:

Create a Virtual Machine on AWS as before. Here will add HTTP and SSH to the security group.

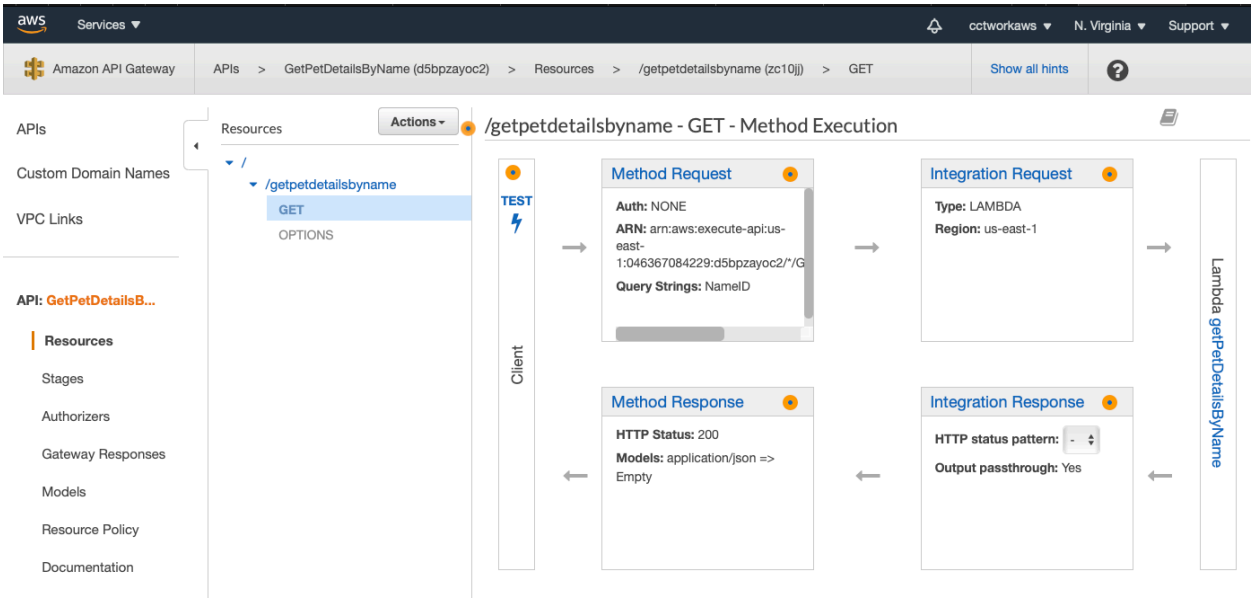
MyStep2:

Create a DynamoDB database as below.



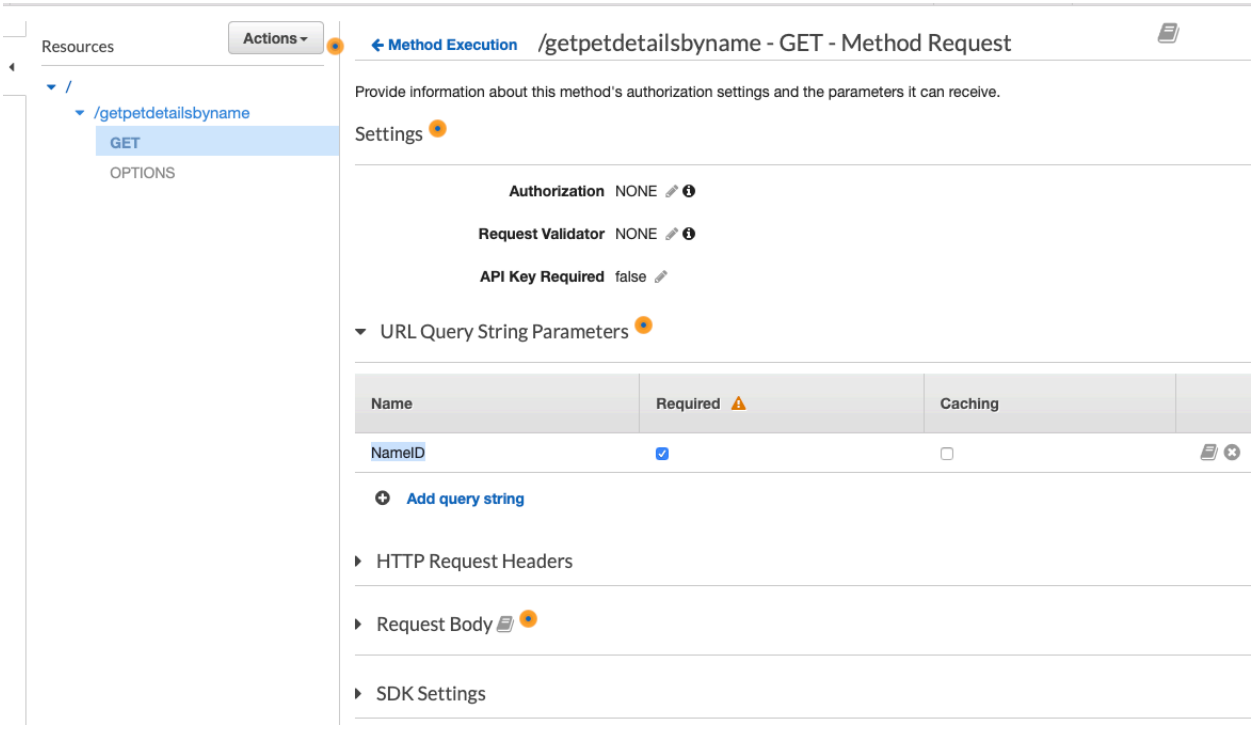
MyStep3:

Go to the API Gateway to create the GET Method



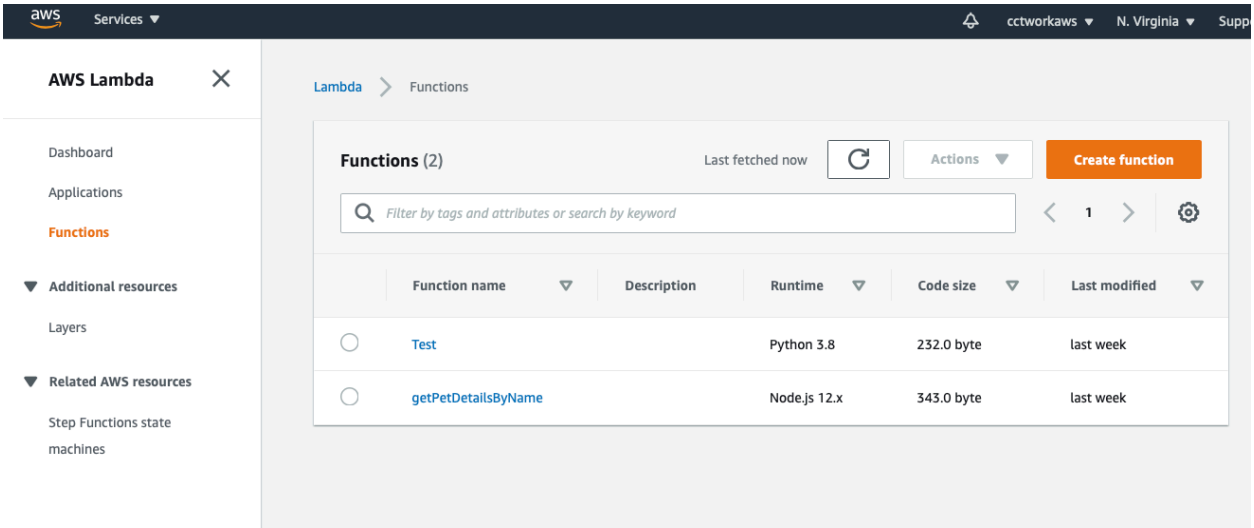
MyStep4:

Specify the String Parameter in the right way



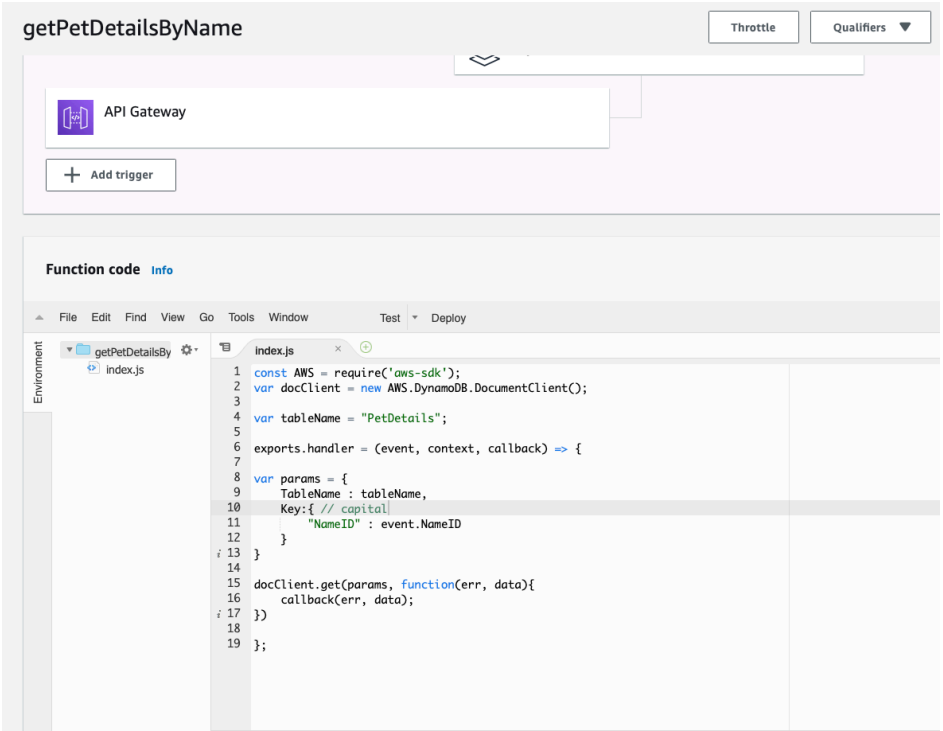
MyStep5:

Go to AWS Lambda and click the function part to create a lambda function.



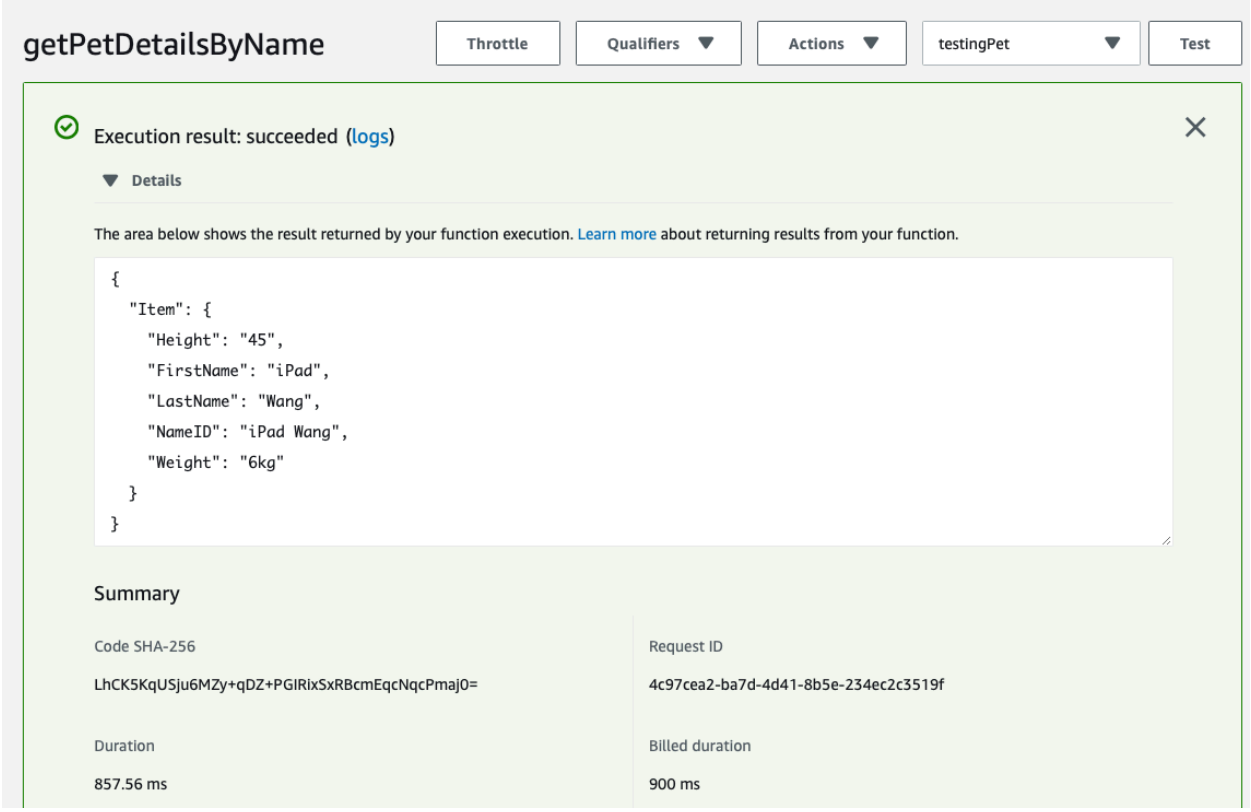
MyStep6:

Write the function content and remember to click Deploy



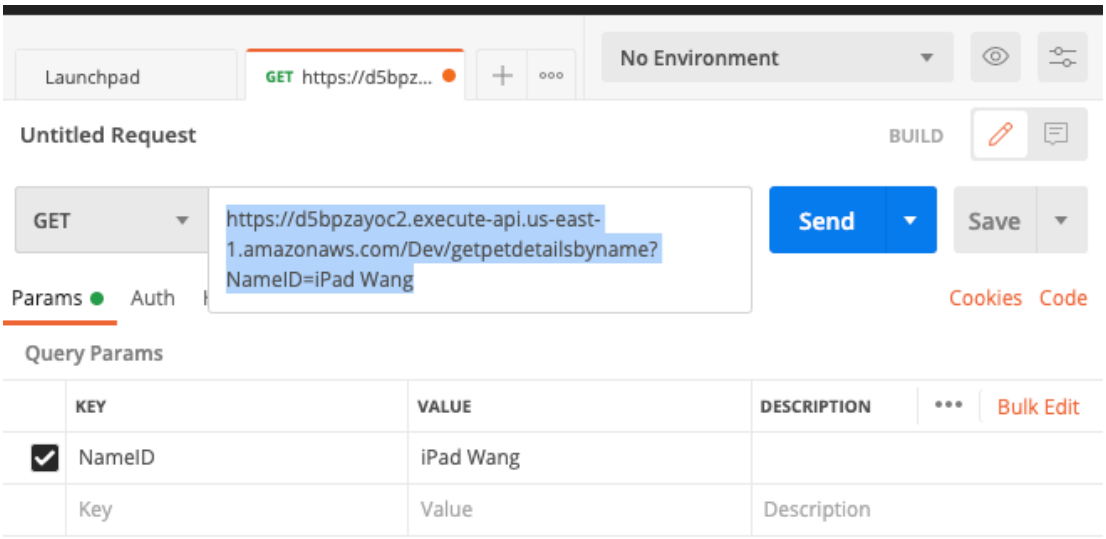
MyStep7:

Test this function and get the result



MyStep8:

Also, use the postman to test whether the request link is correct



MyStep 9:

Then, let's write our html file with javascript

idx.html — AWS

idx.html

idx.html > html > head > script > ready() callback > customerViewModel > GetPetDetails > success

```
<!DOCTYPE html>
<html>
<head>
    <title></title>
    <meta charset="utf-8" />
    <script src="jquery-3.1.1.min.js"></script>
    <script src="knockout-3.4.2.js"></script>
    <script type="text/javascript">


        $(document).ready(function() {

            var customerViewModel = function() {
            var self = this;
            self.height = ko.observable("");
            self.firstName = ko.observable("");
            self.lastName = ko.observable("");
            self.nameId = ko.observable("");
            self.weight = ko.observable("");
            self.searchKey = ko.observable("");

            self.GetPetDetails = function () {
                alert("GetPetDetails!!!");
                $.ajax({
                    url: 'https://d5bpzayoc2.execute-api.us-east-1.amazonaws.com/Dev/getpetdetailsbyname',
                    cache: false,
                    dataType: 'json',
                    crossDomain: true,
                    type: 'GET',
                    data: { "NameID": self.searchKey() },
                    success: function (data) {
                        // self.height("100")
                        self.height(data.Item.Height),
                        self.firstName(data.Item.FirstName),
                        self.lastName(data.Item.LastName),
```

MyStep 10:

Copy this html file and the other two files to our VM(Amazon Linux) on EC2.

MyStep 11:

Use apache to host my website on EC2

Type:

```
sudo yum update -y
sudo yum install -y httpd24 php56 php56-mysqlnd
```

to install necessary packages.

MyStep 12:

Type:

sudo service httpd start

and we can see the apache website in the address. For example, http://ec2-42-8-168-21.us-west-1.compute.amazonaws.com.

MyStep 13:

Copy(create) our html and javascript file into the /var/www/html

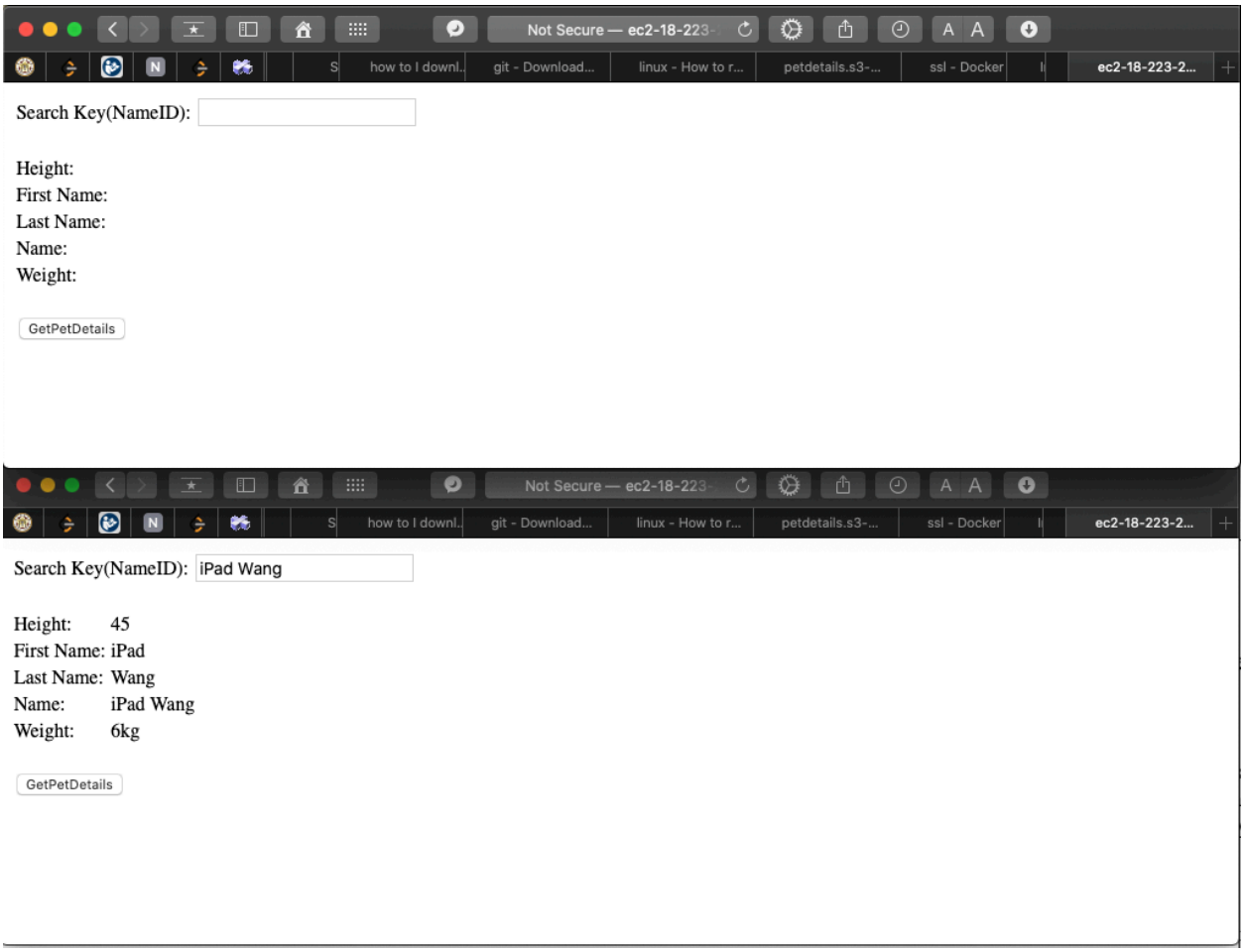
Type:

cd /var/www/html

and copy(create) the html and javascript files (which are in my github).

MyStep 14:

Then use the browser and type http://instance_public_address/index.html



Discussion:

In this homework, I have searched several websites and materials. I just found it is a little bit tricky in some part. For example, when I used the **ajax** to send the request, I always got error! After struggling, I finally discovered the solution. Therefore, it really help me improve my search skill.

Github URL:

https://github.com/Cheng-Chi-Tang/Cloud_Computing_HW.git