**Document DB**

Follow the steps in following link to Create following:

1. [AWS Cloud9 environment](https://docs.aws.amazon.com/documentdb/latest/developerguide/get-started-guide.html#cloud9-environment)
2. [security group](https://docs.aws.amazon.com/documentdb/latest/developerguide/get-started-guide.html#cloud9-security)
3. [Amazon DocumentDB cluster](https://docs.aws.amazon.com/documentdb/latest/developerguide/get-started-guide.html#cloud9-cluster)
4. Install mongo shell on Cloud 9

<https://docs.aws.amazon.com/documentdb/latest/developerguide/get-started-guide.html>

**API Gateway**

|  |  |  |  |
| --- | --- | --- | --- |
| SNO | Resources | METHOD | Lambda called |
| 1 | /customer | POST | customer\_registration\_lambda |
| GET | customer\_details\_lambda |
| 2 | /taxi | POST | taxi\_registration\_lambda |
| GET | taxi\_details\_lambda |
| 3 | /cleardata | GET | clear\_data\_lambda |
| 4 | /latlongupdater | POST | latlong\_update\_lambda |
| 5 | /booktaxi | GET | taxi\_bookingService\_lambda=> taxi\_bookingDB\_lambda |
| 6 | /bookingdetails | GET | booking\_details\_lambda |
| 7 | /bookingresponse | GET | booking\_response\_service=> booking\_response\_db |
| 8 | /trip | POST | trip\_service=>trip\_db |

**Lambda**

1. customer\_registration\_lambda
2. customer\_details\_lambda
3. taxi\_registration\_lambda
4. taxi\_details\_lambda
5. latlong\_update\_lambda
6. clear\_data\_lambda
7. lambdataxibooking =>change to taxi\_bookingDB\_lambda
8. taxi\_bookingService\_lambda
9. bookingResponseService\_lambda
10. bookingResponseDB\_lambda
11. trip\_service
12. trip\_db

The following should be taken care while creating lambda

1. All lambdas should have role which has EC2fullaccess policy attached. Needed to connect to Document DB
2. All lambdas should have timeout set as at least 3 mins
3. All lambdas should be configured to have following when VPS edited
   1. The Security group which is created in Document DB installation step 2
   2. And automatic security group which can be found in Resources tab of automatic CloudFormation stack created during Doc DB setup
   3. Subnet for at least 2 regions
4. Please check if required layers and API gateway triggers added

For creating lambda from zipped package with required modules

-lamda name and .py file name should be same

-and Handler name should be same as lambda name

Creating deployment package for lambda code :

1. Create folder **customer\_registration\_lambda**
2. Copy **customer\_registration\_lambda.py** to this folder
3. Got to cmd for this folder
4. Cd . .
5. pip install pymongo -t customer\_registration\_lambda/ (install pprintpp also for customer and taxi)
6. Go to **customer\_registration\_lambda** folder
7. Select all and create zip folder with name ‘**customer\_registration\_lambda**’
8. Upload this to lambda and make sure the name of lambda function is ‘**customer\_registration\_lambda’**
9. Change Handler name to **customer\_registration\_lambda.lambda\_handler**

**S3 bucket**

To deploy lambda code along with required modules zipped along

