# **Description**

In this case you will learn how to create an AWS Lambda function in Java and expose it through AWS API Gateway

# **Acceptance criteria**

1. Develop a Restful API for CRUD operation
2. Expose it using API Gateway and Lambda function
3. Use Gremlins query language to access your graph
4. Perform various queries covering traversal, counting, mean mode, finding routes between cities etc.

# **Instructions**

1. Download Eclipse, Java 8 and install AWS Toolkit for Eclipse (<https://docs.aws.amazon.com/sdk-for-java/v1/developer-guide/getting-started.html>)
2. Create a Lambda function
   1. Once you have the eclipse IDE ready to use, an AWS icon will appear in the main toolbar, click on it and select “New AWS Lambda Project
   2. Build and deploy this Lambda function. Complete information on deploying a Java Lambda function can be found (<https://docs.aws.amazon.com/lambda/latest/dg/java-create-jar-pkg-maven-and-eclipse.html> )
3. Create an API Gateway Endpoint
   1. Goto AWS console and launch API-Gateway Service.
   2. Click “Create API”
   3. Select “New API” and provide “API name”
   4. After creation of the API, add a Resource
   5. Deploy this API to a staging environment. To do this click on “Action” and select “Deploy API”
   6. Invoke the deployed API ( for example : <https://t5i1mexeh0.execute-api.us-east-2.amazonaws.com/production/helloworld> )