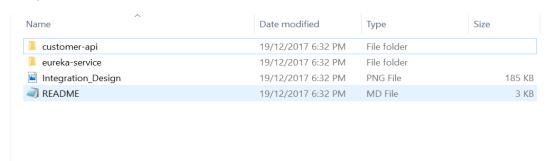
Spring Boot Customer Application using Microservices architecture

Run without IDE(Assumptions – maven is installed in your PC, java 8 is installed as well)

- 1. Clone this project from root folder.(https://github.com/shriramdevanathan/spring-customer-crm/tree/feature/development)
- 2. Unzip the file. You should see the below folder structure.



- 3. Navigate to 'eureka-service' root and run
 - > mvn clean install
 - > mvn package
- 4. This should create the 'target' folder and also contain eureka-service-0.0.1-SNAPSHOT.jar
- 5. Run the following command.
 - cd target
 - java -jar eureka-service-0.0.1-SNAPSHOT.jar
- 6. This should startup the embedded tomcat and the entity manager stuff. The port should be **8302** as per settings.
- 7. Navigate to 'customer-api' root and run
 - > mvn clean install
 - > mvn package
- 8. This should create the target folder and also contain customer-api-0.0.1-SNAPSHOT.jar
- 9. Run the following command then.
 - cd target
 - java -jar customer-api-0.0.1-SNAPSHOT.jar
- 10. This should startup the embedded tomcat in port 8300.

If the above steps were successful, it means that we have a Eureka server running, with the customer-api eureka client registered to the Eureka server.

Now from browser, access the following url to access the Eureka Dashboard

→ http://localhost:8302

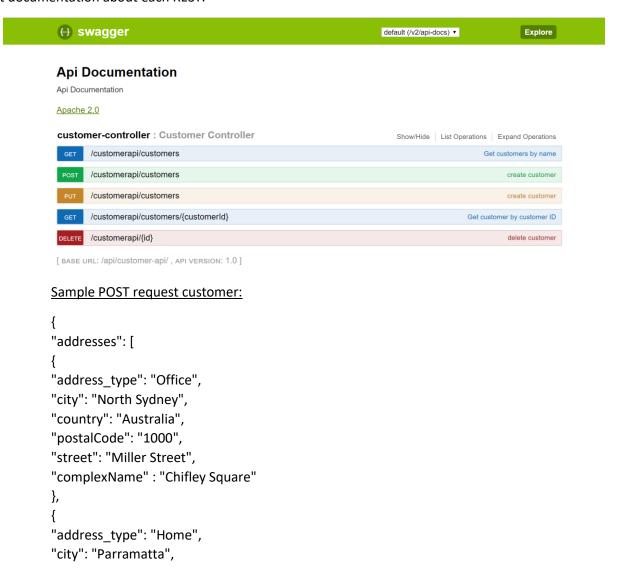


You should see the above screenshot with the customer-api registered(as circled)

11. In another browser tab, access the following url which will hit the gateway and reroute to customer-api using the Eureka registry.

→localhost:8082/api/customer-api/swagger-ui.html

This will bring up the swagger ui which will show up all of the rest end points along with relevant documentation about each REST.



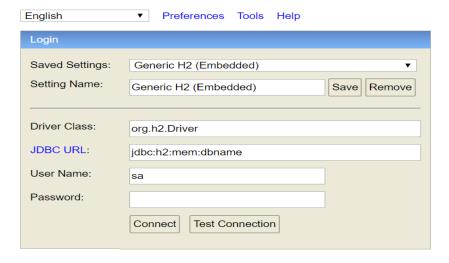
```
"country": "Australia",
"postalCode": "2150",
"street": "Great Western Highway",
"unitNumber": "20",
"apartmentNumber": "62"

}
],
"dob": "2017-12-20T03:01:39.317Z",
"firstName": "Shriram",
"lastName": "Devanathan"
}
```

12. Access the following url to access the H2 database console:

→ localhost:8082

Use the following credentials:



You should be able to see the next screen as follows,



Run with IDE(preferably Intellij)

- 1. Import both projects in Intellij and let the maven imports run.
- 2. Run the Eureka-service first and then the customer-api.
- 3. Now repeat step 11 from above.

We have now established an API design via a API gateway, that can be extended to Mobile as well.