

Database : caltech_course2_db

```
create database caltch_course2_db;
```

```
use caltch_course2_db
```

```
create table login(email varchar(30) primary key,password varchar(30),  
typeofuser varchar(30));
```

creating rest api using jax_rs

dependencies

```
<dependencies>
```

```
<dependency>
```

```
    <groupId>mysql</groupId>
```

```
    <artifactId>mysql-connector-java</artifactId>
```

```
    <version>8.0.16</version>
```

```
</dependency>
```

```
<dependency>
```

```
    <groupId>javax.activation</groupId>
```

```
    <artifactId>activation</artifactId>
```

```
    <version>1.1.1</version>
```

```
</dependency>
```

```
<dependency>
<groupId>org.glassfish.jersey.core</groupId>
<artifactId>jersey-server</artifactId>
<version>2.27</version>
</dependency>
<dependency>
<groupId>org.glassfish.jersey.containers</groupId>
<artifactId>jersey-container-servlet</artifactId>
<version>2.27</version>
</dependency>
```

```
<dependency>
<groupId>org.glassfish.jersey.inject</groupId>
<artifactId>jersey-hk2</artifactId>
<version>2.27</version>
</dependency>
```

```
<dependency>
  <groupId>javax.xml.bind</groupId>
  <artifactId>jaxb-api</artifactId>
  <version>2.3.0</version>
</dependency>
```

```
<dependency>
  <groupId>org.glassfish.jersey.media</groupId>
```

```
<artifactId>jersey-media-json-jackson</artifactId>
<version>2.22.2</version>
</dependency>

</dependencies>
```

front controller for web.xml file

```
<servlet>
<servlet-name>Test Jersey Service</servlet-name>
<!-- For Jersey 2.x -->
<servlet-class>org.glassfish.jersey.servlet.ServletContainer</servlet-class>
<init-param>

<param-name>jersey.config.server.provider.packages</param-name>
<param-value>com.controller</param-value>
</init-param>
<load-on-startup>1</load-on-startup>
</servlet>

<servlet-mapping>
<servlet-name>Test Jersey Service </servlet-name>
<url-pattern>/rest/*</url-pattern>
</servlet-mapping>
```

Cors : Cross Origin Resource Sharing

Angular

Java (JAX_RS)

4200

8080 port

Web server

web server tomcat

Backend technologies allow to access our resource from frontend technologies.

Two server are communicating with each other to share the data. Through HTTP protocol

In backend technologies we can enable to access our resource using some configuration

1 using xml configuration

2. using some java classes

3. using annotation

In Angular HttpClient with method get, post, put and delete consume response in only json format by default.

Angular

Template --→ component --→ service

REST API to consume and produce

Backend

JAXRS

Rest api --→ service layer -→ dao layer -→ resource layer -→

JDBC to connect database.

Database

Caltech_course2_mydb