SPRING_BOOT

Name: Sunny kumar Regd. No.: 1941012681

Product Table: CREATE TABLE product (id int NOT NULL AUTO_INCREMENT, name varchar(255) NOT NULL, price decimal(10,2) NOT NULL, PRIMARY KEY (id)); **Customer Table: CREATE TABLE customer (** id int NOT NULL AUTO_INCREMENT, name varchar(255) NOT NULL, address varchar(255) NOT NULL, PRIMARY KEY (id)); **Manufacturer Table:** CREATE TABLE manufacturer (

CREATE TABLE manufacturer (id int NOT NULL AUTO_INCREMENT, name varchar(255) NOT NULL,

PRIMARY KEY (id)

```
);
class table:
CREATE TABLE `class` (
 `class_id` int(11) NOT NULL AUTO_INCREMENT,
 'class_name' varchar(255) NOT NULL,
 `class_code` varchar(255) NOT NULL,
 `class_description` text NOT NULL,
 `class_size` int(11) NOT NULL,
 `class_room` varchar(255) NOT NULL,
 'class time' time NOT NULL.
 `class_date` date NOT NULL,
 PRIMARY KEY ('class_id')
)
1) insert a new record inside product table
Product product = new Product();
product.setName("");
product.setManufacturer("");
productRepository.save(product);
2) update an existing record in product table
Product product = productRepository.findOne(1L);
product.setName("");
product.setManufacturer("");
```

```
productRepository.save(product);
3) delete an existing record from product table
Product product = productRepository.findOne(1L);
productRepository.delete(product);
4) execute an query and return the manufacturer list for a given product name
List<Product> products = productRepository.findByName("");
for (Product product : products) {
  System.out.println(product.getManufacturer());
}
service
package jp.mitsuruog.springboot.sample.Customer.service;
import jp.mitsuruog.springboot.sample.Customer.domain.Customer;
import
jp.mitsuruog.springboot.sample.Customer.repository.CustomerRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.data.domain.Page;
import org.springframework.data.domain.Pageable;
import org.springframework.stereotype.Service;
import java.util.List;
@Service
```

```
public class CustomerService {
  @Autowired
  CustomerRepository customerRepository;
  public Page<Customer> findAll(Pageable pageable) {
    return customerRepository.findAllOrderByName(pageable);
  }
  public Customer findById(Integer id) {
    return customerRepository.findOne(id);
  }
  public Customer create(Customer customer) {
    return customerRepository.save(customer);
  }
  public Customer update(Customer customer) {
    return customerRepository.save(customer);
  }
  public void delete(Integer id) {
    customerRepository.delete(id);
  }
}
```

model

```
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class DemoApplication {
 public static void main(String[] args) {
   SpringApplication.run(DemoApplication.class, args);
 }
}
Dao
public class UserDao implements Dao<User> {
  private List<User> users = new ArrayList<>();
  public UserDao() {
    users.add(new User("John", "john@domain.com"));
    users.add(new User("Susan", "susan@domain.com"));
  }
  @Override
  public Optional<User> get(long id) {
    return Optional.ofNullable(users.get((int) id));
  }
```

```
@Override
  public List<User> getAll() {
    return users;
  }
  @Override
RestController
package es.macero.dev;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.Bean;
import springfox.documentation.builders.PathSelectors;
import springfox.documentation.builders.RequestHandlerSelectors;
import springfox.documentation.spi.DocumentationType;
import springfox.documentation.spring.web.plugins.Docket;
import springfox.documentation.swagger2.annotations.EnableSwagger2;
@SpringBootApplication
@EnableSwagger2
public class SpringBootRestcontrollerExampleApplication {
      public static void main(String[] args) {
```

```
SpringApplication.run(SpringBootRestcontrollerExampleApplication.class,
args);
     }
     @Bean
     public Docket api() {
          return new Docket(DocumentationType.SWAGGER 2)
                     .select()
                     .apis(RequestHandlerSelectors.any())
                     .paths(PathSelectors.regex("/getCustomersDetails"))
                     .build();
     }
}
Pom.xml
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="https://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4 0 0.xsd">
 <modelVersion>4.0.0</modelVersion>
<groupId>com.customer
 <artifactId>customer-ws-spring-boot</artifactId>
 <version>2.3.0</version>
 <name>Spring Boot</name>
 <description>web services using Spring Boot.</description>
```

```
<parent>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
<version>2.1.1.RELEASE
</parent>
properties>
project.build.sourceEncoding>
<java.version>11</java.version>
<dependencies>
<dependency>
 <groupId>org.springframework.boot
 <artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
 <groupId>org.springframework.boot</groupId>
 <artifactId>spring-boot-starter-actuator</artifactId>
</dependency>
<dependency>
 <groupId>org.springframework.boot
```

```
<artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
<!-- Dependencies for Unit Testing -->
<dependency>
 <groupId>org.springframework.boot</groupId>
 <artifactId>spring-boot-starter-test</artifactId>
 <scope>test</scope>
</dependency>
<dependency>
 <groupId>org.springframework.security</groupId>
 <artifactId>spring-security-test</artifactId>
 <scope>test</scope>
</dependency>
<dependency>
 <groupId>com.google.guava
 <artifactId>guava</artifactId>
 <version>27.0.1-jre</version>
  <scope>test</scope>
</dependency>
<bul><build>
<plugins>
 <plugin>
   <groupId>org.springframework.boot</groupId>
```

```
<artifactId>spring-boot-maven-plugin</artifactId>
<configuration>
  <executable>true</executable>
  </configuration>
  <executions>
   <execution>
   <goals>
      </goals>
   </goals>
   </execution>
   </execution>
  </execution>
  </plugin>
  </plugins>
</build>
```

</project>