## 1941012651\_SPRING\_BOOT

```
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 (
  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);
}
```

## model

}

}

public void delete(Integer id) {

customerRepository.delete(id);

 $import\ org. spring framework. boot. autoconfigure. Spring Boot Application;$ 

```
@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>
cproperties>
project.build.sourceEncoding>UTF-8/project.build.sourceEncoding>
<java.version>11</java.version>
</properties>
<dependencies>
<dependency>
 <groupId>org.springframework.boot
 <artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
 <groupId>org.springframework.boot
 <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
 <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
  <artifactId>spring-boot-maven-plugin</artifactId>
  <configuration>
    <executable>true</executable>
```

```
</configuration>
<executions>
<execution>
<goals>
<goal>build-info</goal>
</goals>
</execution>
</execution>
</executions>
</plugin>
</plugins>
</build>
</project>
```