

# Spring Boot Assessment

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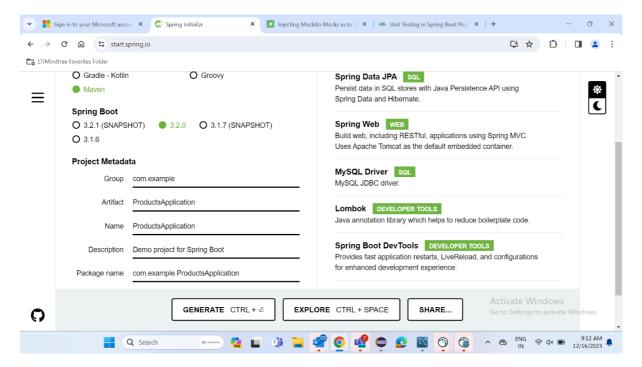


Scenario: Create a REST API for resource Product. The Product Entity has following fields:

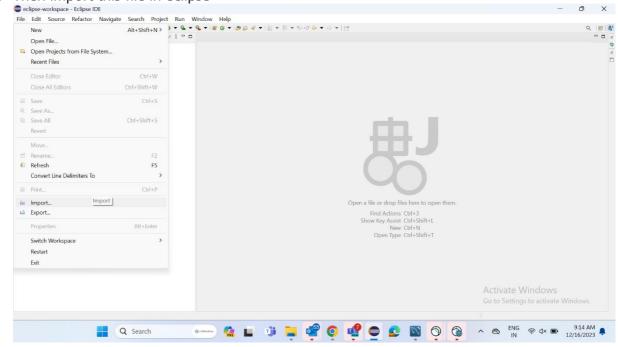
1. Unique ID 2. Name 3. Description 4. Price 5. ManufacturingDate.

### Steps:

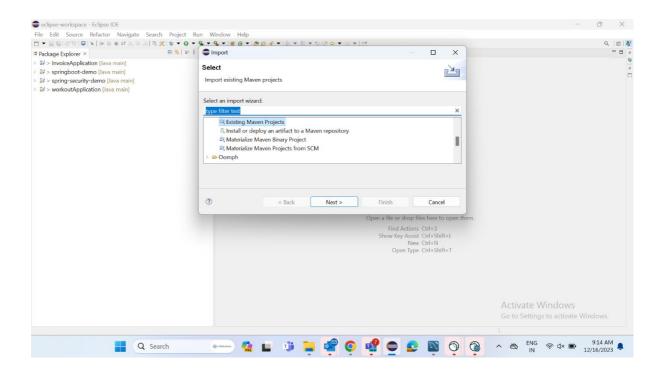
1.Download Spring initializer file



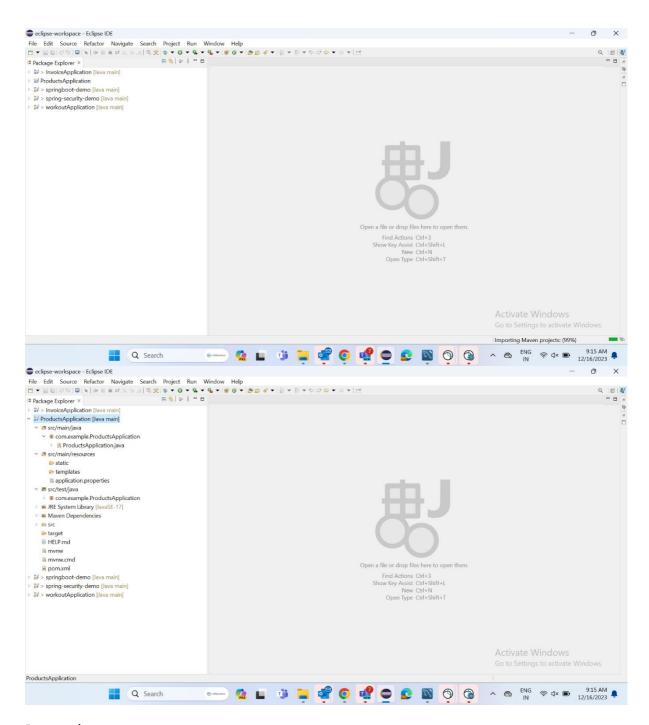
2. Then import this file in eclipse











### Pom.xml:



```
<version>3.2.0
   <relativePath/> <!-- lookup parent from repository -->
 </parent>
  <groupId>com.example
 <artifactId>ProductsApplication</artifactId>
 <version>0.0.1-SNAPSHOT
 <name>ProductsApplication
 <description>Demo project for Spring Boot</description>
  cproperties>
   <java.version>17</java.version>
  </properties>
 <dependencies>
   <dependency>
     <groupId>org.springframework.boot
     <artifactId>spring-boot-starter-data-jpa</artifactId>
   </dependency>
   <dependency>
     <groupId>org.springframework.boot
     <artifactId>spring-boot-starter-web</artifactId>
   </dependency>
   <dependency>
     <groupId>org.springframework.boot
     <artifactId>spring-boot-devtools</artifactId>
     <scope>runtime</scope>
     <optional>true</optional>
   </dependency>
   <dependency>
     <groupId>com.mysql</groupId>
     <artifactId>mysql-connector-j</artifactId>
     <scope>runtime</scope>
   </dependency>
    <dependency>
   <groupId>org.springdoc</groupId>
   <artifactId>springdoc-openapi-starter-webmvc-
ui</artifactId>
   <version>2.1.0
  </dependency>
   <dependency>
     <groupId>org.projectlombok</groupId>
     <artifactId>lombok</artifactId>
     <optional>true</optional>
   </dependency>
   <dependency>
     <groupId>org.springframework.boot
     <artifactId>spring-boot-starter-test</artifactId>
     <scope>test</scope>
   </dependency>
<dependency>
   <groupId>org.mockito
```



```
<artifactId>mockito-junit-jupiter</artifactId>
    <scope>test</scope>
</dependency>
  </dependencies>
  <build>
    <plugins>
      <plugin>
        <groupId>org.springframework.boot
        <artifactId>spring-boot-maven-plugin</artifactId>
        <configuration>
          <excludes>
            <exclude>
              <groupId>org.projectlombok</groupId>
              <artifactId>lombok</artifactId>
            </exclude>
          </excludes>
        </configuration>
      </plugin>
    </plugins>
  </build>
</project>
     Application.properties:
server.port = 3000
spring.datasource.url=jdbc:mysql://localhost:3306/productsdb
spring.datasource.username=root
spring.datasource.password=Ganesh@123
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.
MySQL8Dialect
     Products.java code:
package com.example.ProductsApplication.Entities;
import java.sql.Date;
import java.time.LocalDate;
```



```
import com.fasterxml.jackson.annotation.JsonFormat;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
@Entity
public class Products {
     @Id
     @GeneratedValue(strategy = GenerationType.AUTO)
     public int id;
     String name;
     String description;
     public double price;
     @JsonFormat(pattern="yyyy-MM-dd")
    Date manufacturingDate;
// LocalDate manufacturingDate;
    public Products() {
        super();
     public Products (int id, String name, String description,
double price, Date manufacturingDate) {
          super();
          id = id;
          this.name = name;
          this.description = description;
          this.price = price;
          this.manufacturingDate = manufacturingDate;
     }
     public int getId() {
          return id;
     }
     public void setId(int id) {
          id = id;
     public String getName() {
```



```
return name;
     }
     public void setName(String name) {
          this.name = name;
     public String getDescription() {
          return description;
     public void setDescription(String description) {
          this.description = description;
     public double getPrice() {
          return price;
     public void setPrice(double price) {
          this.price = price;
     public Date getManufacturingDate() {
          return manufacturingDate;
     }
     public void setManufacturingDate(Date manufacturingDate)
          this.manufacturingDate = manufacturingDate;
     }
}
ProductRepository.java code:
package com.example.ProductsApplication.Repositories;
import java.sql.Date;
import java.util.List;
import org.springframework.data.jpa.repository.JpaRepository;
```



```
import com.example.ProductsApplication.Entities.Products;
public interface ProductRepository extends
JpaRepository<Products, Integer> {
     List<Products> findByName(String name);
     List<Products> findByDescriptionContaining(String
description);
     List<Products> findByPriceGreaterThan(double price);
     List<Products> findByManufacturingDateEquals(Date mfd);
     List<Products> findByOrderByName();
}
ProductController.java code:
package com.example.ProductsApplication.Controllers;
import java.sql.Date;
//import java.time.LocalDate;
import java.util.List;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.ResponseStatus;
import org.springframework.web.bind.annotation.RestController;
import com.example.ProductsApplication.Entities.Products;
import
com.example.ProductsApplication.Repositories.ProductRepository
```



```
@RestController
@RequestMapping("/Products")
public class ProductController {
     @Autowired
     ProductRepository productRepository;
     @PostMapping("/AddProducts")
     public ResponseEntity<String> addProducts(@RequestBody
Products products) {
          ResponseEntity response=null;
          try {
          productRepository.save(products);
          response= new ResponseEntity<String>(
                "Product added", HttpStatus. CREATED);
        }
          catch (Exception e) {
            response=new ResponseEntity<String>("Adding")
products failed", HttpStatus. INTERNAL SERVER ERROR);
          return response;
     @GetMapping("/getProducts")
     @ResponseStatus (HttpStatus. OK)
     public List<Products> getProducts() {
          return productRepository.findAll();
     }
     //put
     @PutMapping("/productsUpdate/{id}")
     public ResponseEntity<String>
updateProduct(@PathVariable("id") int id, @RequestBody
Products products) {
          ResponseEntity<String> response = null;
          Optional < Products > productid =
productRepository.findById(id);
          if (productid.isPresent()) {
               products.id=id;
               productRepository.save(products);
               response= new ResponseEntity<String>(
                      "Product Updated", HttpStatus. CREATED);
               return response;
```



```
} else
               response = new ResponseEntity<>("Product not
Found", HttpStatus.NOT FOUND);
          return response;
     }
     //delete
     @DeleteMapping("/productDelete/{id}")
     public ResponseEntity<String>
deleteProduct(@PathVariable("id") int id, @RequestBody
Products products) {
          ResponseEntity<String> response = null;
          Optional < Products > productid =
productRepository.findById(id);
          if (productid.isPresent()) {
               productRepository.deleteById(id);
               response= new ResponseEntity<String>(
                      "Product is deleted", HttpStatus. OK);
               return response;
          } else
               response = new ResponseEntity<>("Product not
Found", HttpStatus.NOT FOUND);
          return response;
     }
     //findMethods.....
     @GetMapping("/findbyname")
     @ResponseStatus (HttpStatus. OK)
    public ResponseEntity<List<Pre>roducts>>
getProductByName(@RequestParam("name") String name) {
     List<Products>
product=productRepository.findByName(name);
     ResponseEntity<List<Products>> response=null;
     if(product.isEmpty()) {
               response =new
ResponseEntity<List<Products>> (HttpStatus.NOT FOUND);
          return response;
     }
     else {
     response =new
ResponseEntity<List<Products>> (product, HttpStatus.OK);
     return response;
```



```
}
     @GetMapping("/Descriptioncontains")
     @ResponseStatus (HttpStatus.OK)
    public ResponseEntity<List<Pre>t<Pre>roducts>>
getDescriptionContaining(@RequestParam("description") String
description) {
     List<Products>
product=productRepository.findByDescriptionContaining(descript
ion);
     ResponseEntity<List<Products>> response=null;
     if(product.isEmpty()) {
               response =new
ResponseEntity<List<Products>>(HttpStatus.NOT FOUND);
          return response;
     }
     else {
     response =new
ResponseEntity<List<Products>> (product, HttpStatus.OK);
     return response;
     }
    }
     @GetMapping("/pricegreaterthan")
     @ResponseStatus (HttpStatus. OK)
    public ResponseEntity<List<Pre>roducts>>
getPrice(@RequestParam("price") double price) {
     List<Products>
product=productRepository.findByPriceGreaterThan(price);
     ResponseEntity<List<Products>> response=null;
     if(product.isEmpty()) {
               response =new
ResponseEntity<List<Products>> (HttpStatus.NOT FOUND);
          return response;
     else {
     response =new
ResponseEntity<List<Products>> (product, HttpStatus.OK);
     return response;
     }
     @GetMapping("/samemanufacturedate")
     @ResponseStatus(HttpStatus.OK)
     public ResponseEntity<List<Pre>roducts>>
getSameDate(@RequestParam("mfd") Date mfd) {
          List<Products>
product=productRepository.findByManufacturingDateEquals(mfd);
```

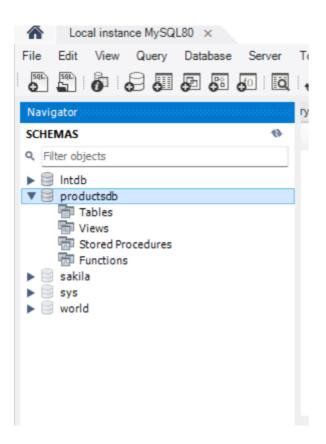


```
ResponseEntity<List<Products>> response=null;
     if(product.isEmpty()) {
               response =new
ResponseEntity<List<Products>>(HttpStatus.NOT FOUND);
          return response;
     }
     else {
     response =new
ResponseEntity<List<Products>> (product, HttpStatus.OK);
     return response;
     }
      @GetMapping("/orderbyname")
//
      @ResponseStatus(HttpStatus.OK)
         public ResponseEntity<List<Pre>roducts>>
getEmployeeByNameByOrder() {
          List<Products> product=productRepository.
findByOrderByName();
          ResponseEntity<List<Products>> response=null;
          if(product.isEmpty()) {
                    response =new
ResponseEntity<List<Products>> (HttpStatus.NOT FOUND);
               return response;
          }
          else {
          response =new
ResponseEntity<List<Products>> (product, HttpStatus.OK);
          return response;
          }
ProductionApplication.java code:
package com.example.ProductsApplication;
import org.springframework.boot.SpringApplication;
org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class ProductsApplication {
     public static void main(String[] args) {
```



SpringApplication.run(ProductsApplication.class,
args);
}

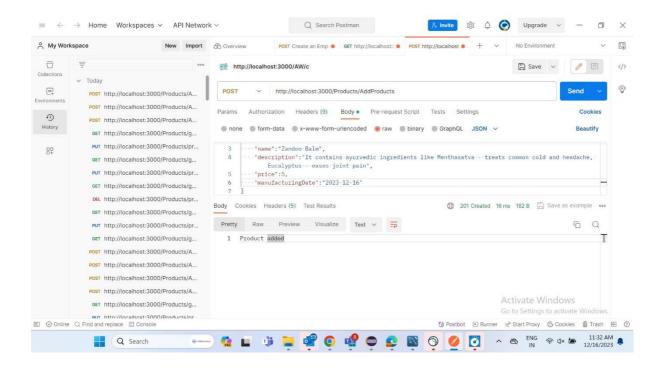
DataBase:



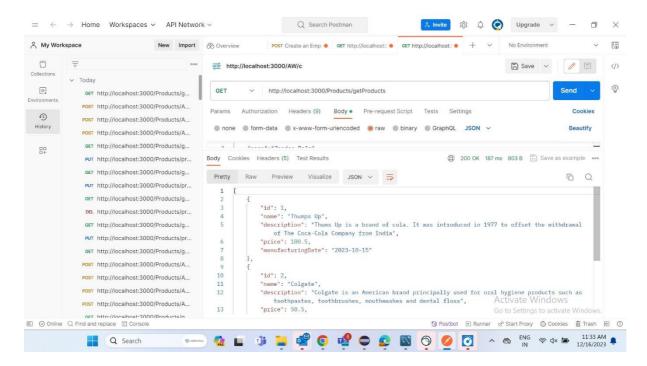
# Crud Operations:

Create-Post: https://localhost:3000/Products/AddProducts



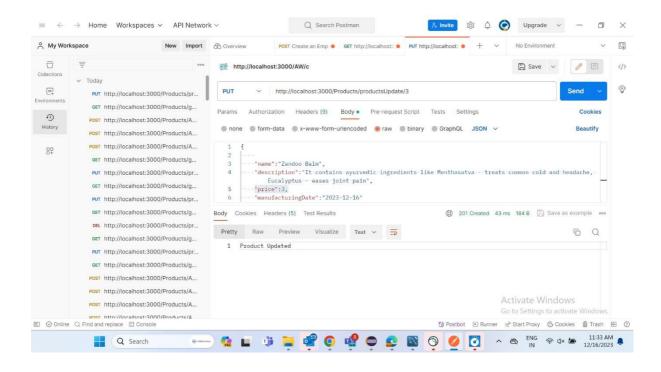


Get: https://localhost:3000/Products/getProducts

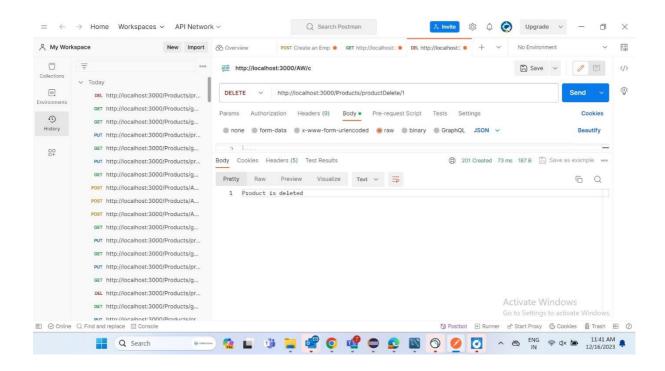


Update: https://localhost:3000/Products/updateProducts/3





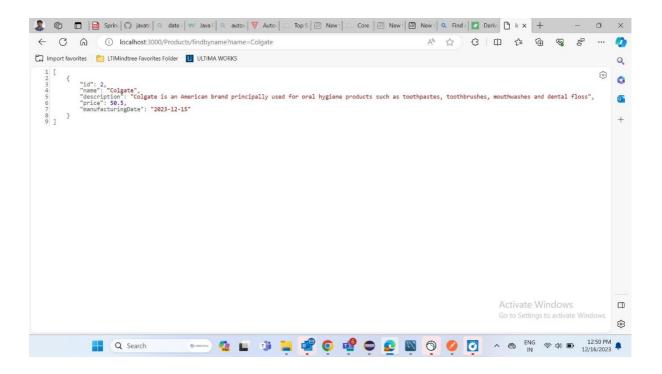
Delete: https://localhost:3000/Products/productDelete/1





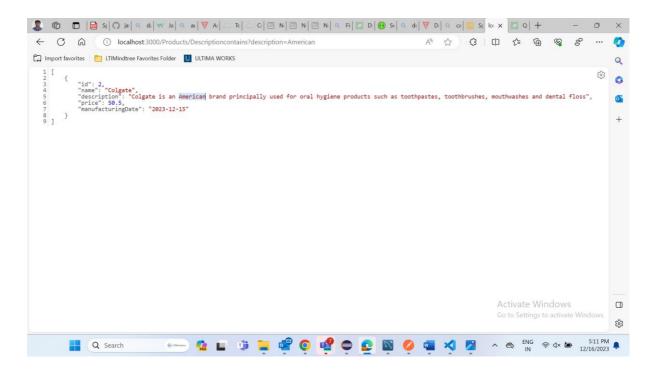
# **Find Operations:**

1. Find a product by its name



2. Search for a text contained in description



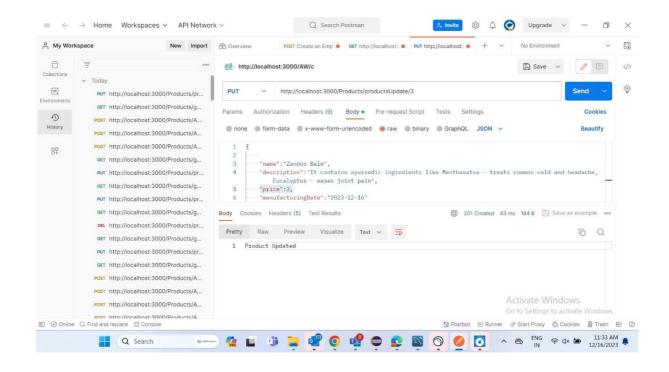


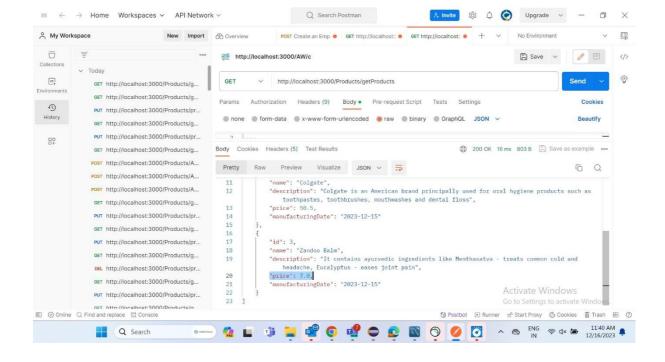
3. Products with price greater than a value.

```
← C localhost:3000/Products/pricegreaterthan?price=5
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                                            "id": 2,
"name": "Colgate",
"description": "Colgate is an American brand principally used for oral hygiene products such as toothpastes, toothbrushes, mouthwashes and dental floss",
"price": 50.5,
"manufacturingDate": "2023-12-15"
         8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
                                            "id": 3,
"name": "Zandoo Balm",
"description": "It contains ayurvedic ingredients like Menthasatva - treats common cold and headache, Eucalyptus - eases joint pain",
                                             "id": 54
"name": "fogg",
"description": "Apply fogg perfume directly on your body for a long lasting aromatic effect",
"price": 120,
"manufacturingDate": "2023-11-15"
                                            "id": 55,
"name": "book",
"description": "A book is a medium for recording information in the form of writing or images, typically composed of many pages bound together and protected
"description": "A book is a medium for recording information in the form of writing or images, typically composed of many pages bound together and protected
                                           "price": 20,
"manufacturingDate": "2023-12-15"
                                                                                                                                                                                                                                                                                                                                                                                                                                              Activate Windows
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                                                                                                                             6---- (1/2) □ 1/3 □ 1/3 □ 1/2 (0/2) □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2 □ 1/2
```

4. Change the price of product







# 5. Find All Products by same Manufacturing Date



```
← C ର i localhost:3000/Products/samemanufacturedate?mfd=2023-12-16
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                             {
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                                           "id": 2,
"name": "Colgate",
"description": "Colgate is an American brand principally used for oral hygiene products such as toothpastes, toothbrushes, mouthwashes and dental floss",
                                            "name": "Colgate 19 ""
"description": "Colgate 19 ""
"price": 50.5,
"manufacturingDate": "2023-12-15"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                               },
                                            "id": 3,
"name": "Zandoo Balm",
"description": "It contains ayurvedic ingredients like Menthasatva - treats common cold and headache, Eucalyptus - eases joint pain",
"description": "It contains ayurvedic ingredients like Menthasatva - treats common cold and headache, Eucalyptus - eases joint pain",
                                                 price": 7,
manufacturingDate": "2023-12-15"
                                           "id": 52,
"name": "Pen",
"description": "Pen used for writing on paper",
"price": 5,
"manufacturingDate": "2023-12-15"
                   "name". "book",
"description": "A book is a medium for recording information in the form of writing or images, typically composed of many pages bound together and protected
by a cover",
"price": 20,
"manufacturingDate": "2023-12-15"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (3)
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```

### 6. Display products sorted by Name

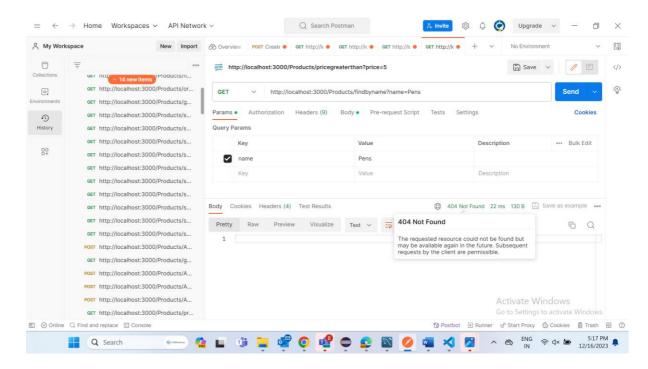
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                               "id": 55,
   "name": "book",
   "description": "A book is a medium for recording information in the form of writing or images, typically composed of many pages bound together and protected by a cover",
   "price": 20,
   "manufacturingDate": "2023-12-15"
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                                                                          "id": 2,
"name": "Colgate",
"description": "Colgate is an American brand principally used for oral hygiene products such as toothpastes, toothbrushes, mouthwashes and dental floss",
"description": "Colgate is an American brand principally used for oral hygiene products such as toothpastes, toothbrushes, mouthwashes and dental floss",
                 "name": Colgate is an Amer
"description": "Colgate is an Amer
"price": 50.5,
"manufacturingDate": "2023-12-15"
                                                                            "id": 54,
"name": "fogg",
"description": "Apply fogg perfume directly on your body for a long lasting aromatic effect",
                                                                               "name": "fogg",
"description": "Apply fogg perfum
"price": 120,
"manufacturingDate": "2023-11-15"
                                                                            "id": 52,
"name": "Pen",
"description": "Pen used for writing on paper",
"price": 5,
"manufacturingDate": "2023-12-15"
                                                                          "id": 53,
"name": "Pencil",
"description": "Pencil used for writing on paper and also Erase whatever we write ",
"price": 3,
"manufacturingDate": "2023-11-15"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Activate Windows
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "id": 3,
"name": "Zandoo Balm",
"description": "It contains ayurvedic ingredients like Menthasatva - treats common cold and headache, Eucalyptus - eases joint pain",
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```



### The REST API must fulfil following requirements:

1. Use appropriate status codes: For every operation I used status codes

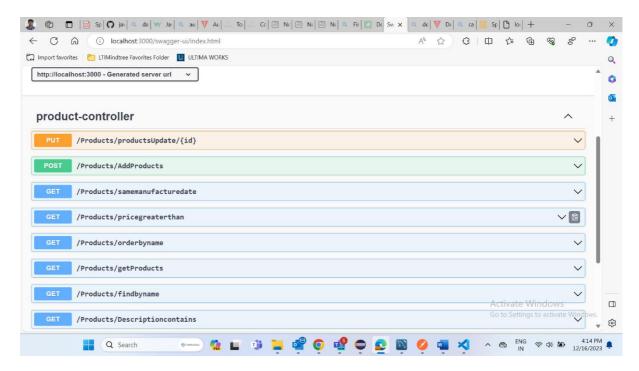
Example: when I search for particular name, if it found it will give results else it will show Not Found Status

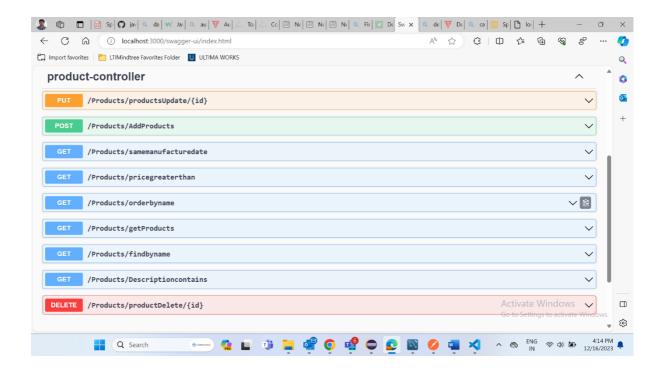


# 2. Use exception handling

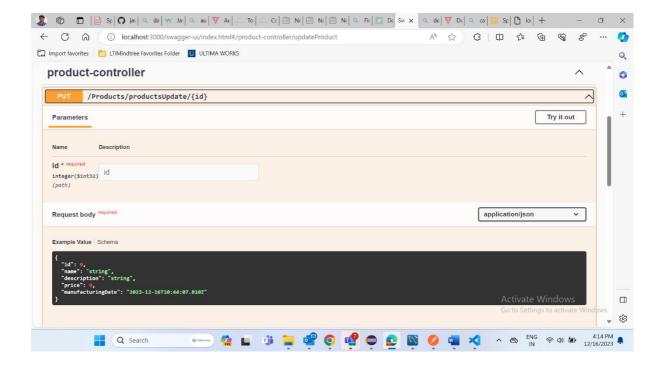


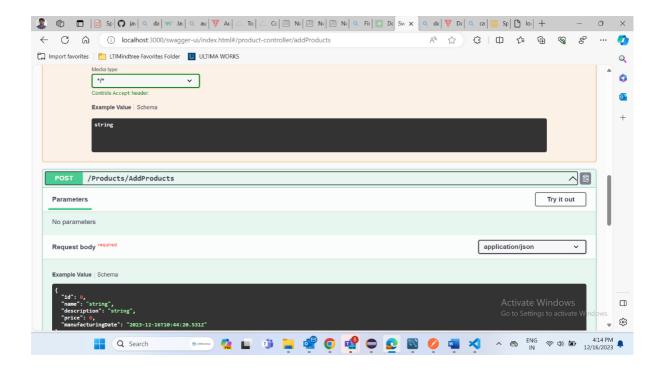
# 3. Must expose documentation using Swagger





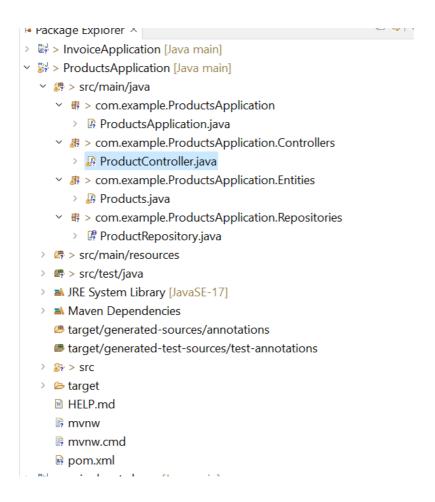






5 Use separate packages for Controllers, Entities, Repositories etc







# Let's get to the future, faster. Together.

