You are given a project to demonstrate RESTful with Spring Boot.

RestApiTestApplication:

```
package com.test.example;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
@Entity
public class ProductEntity {
    @jakarta.persistence.Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    @Column(name = "id", updatable = false, nullable = false)
    private int id;
    @Column
    private String name;
    @Column
    private String description;
    public ProductEntity() {
        super();
    public ProductEntity(int id, String name, String description) {
        super();
        this.id = id;
        this.name = name;
        this.description = description;
    public int getId() {
       return id;
    public void setId(int id) {
       this.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;
    }
}
ProductRepository:
package com.test.example;
import org.springframework.data.jpa.repository.JpaRepository;
```

```
public interface ProductRepository extends JpaRepository < ProductEntity,
Integer>{
ProductService:
package com.test.example;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
@Service
public class ProductService {
    @Autowired
    ProductRepository productRepository;
   public List<ProductEntity> getAllProduct() {
       return productRepository.findAll();
    public ProductEntity getProduct(int id) {
       return productRepository.findById(id).get();
    }
    public void addProduct(ProductEntity pe) {
       productRepository.save(pe);
    public void updateProduct(int id, ProductEntity pe) {
        if (productRepository.findById(id).isPresent()) {
            ProductEntity
oldProductEntity=productRepository.findById(id).get();
            oldProductEntity.setName(pe.getName());
            oldProductEntity.setDescription(pe.getDescription());
            productRepository.save(oldProductEntity);
        }
    }
    public void deleteProduct(int id) {
        productRepository.deleteById(id);
    }
}
ProductController:
package com.test.example;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
```

```
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
@RestController
@RequestMapping(path = "/webapi")
public class ProductController {
    @Autowired
    ProductService productService;
    @RequestMapping("/allproduct")
    public List<ProductEntity> getAllProduct() {
       return productService.getAllProduct();
    @RequestMapping("/product/{id}")
    public ProductEntity getProduct(@PathVariable int id) {
       return productService.getProduct(id);
    @RequestMapping(method=RequestMethod.POST, value="/product")
    public void addProduct(@RequestBody ProductEntity pe ) {
       productService.addProduct(pe);
    @RequestMapping (method=RequestMethod.PUT, value="/product/{id}")
    public void updateProduct(@PathVariable int id, @RequestBody
ProductEntity pe ) {
       productService.updateProduct(id, pe);
    }
    @RequestMapping (method=RequestMethod.DELETE, value="/product/{id}")
    public void deleteProduct(@PathVariable int id) {
       productService.deleteProduct(id);
}
```