Build RESTful with Spring Boot

Step 1: Creating an Entity Class

```
package com.test.example;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
@Entity
public class ProductEntity {
  @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;
  }
}
```

Step 2: Creating a Repository Class

```
package com.test.example;
import org.springframework.data.jpa.repository.JpaRepository;
public interface ProductRepository extends JpaRepository<ProductEntity,
Integer>{
}
```

Step 3: Creating a Service Class

```
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);
}
```

Step 4: Creating a Controller Class

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);
  }
```

}