

**The course “Application development with Java”**

Practical assignment 5

Student name: Roberts

Student surname: Dubovskis

St. code: 62085

**RIGA**

**2022**

Contents

[Exercise 1 3](#_Toc101108900)

[Conclusion 9](#_Toc101108901)

# Exercise 1

**WebshopApplication.java**

package lv.tsi.webshop;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class WebshopApplication {

public static void main(String[] args) {

SpringApplication.run(WebshopApplication.class, args);

}

}

**ProductCategory.java**

package lv.tsi.webshop.models;

public enum ProductCategory {

COMPUTERS, SMARTPHONES, SMART\_HOME\_DEVICES

}

**Product.java**

package lv.tsi.webshop.models;

import com.fasterxml.jackson.annotation.JsonProperty;

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class Product {

@JsonProperty

@Id

Long id;

@JsonProperty

String name;

@JsonProperty

String description;

@JsonProperty

float price;

@JsonProperty

String pictureUrl;

@JsonProperty

ProductCategory productCategory;

}

**ErrorResponse.java**

package lv.tsi.webshop.models;

import lombok.Builder;

import lombok.Value;

@Value

@Builder

public class ErrorResponse {

String errorCode;

String errorMessage;

String referenceId;

}

**ProductRepository.java**

package lv.tsi.webshop.Repository;

import org.springframework.data.jpa.repository.JpaRepository;

import org.springframework.stereotype.Repository;

@Repository

public interface ProductRepository extends JpaRepository {

}

**ProductResource.java**

package lv.tsi.webshop.resource;

import lv.tsi.webshop.models.Product;

import lv.tsi.webshop.service.ProductService;

import org.springframework.http.ResponseEntity;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PathVariable;

import javax.annotation.Resource;

import java.util.List;

@Resource

public class ProductResource {

private final ProductService productService;

public ProductResource(ProductService productService) {

this.productService = productService;

}

@GetMapping("/products")

public ResponseEntity<List<Product>> getAllProducts() {

return productService.getAllProducts();

}

@GetMapping("/products/{id}")

public ResponseEntity getProductsById(@PathVariable Long id) {

return productService.getProductsById(id);

}

}

**ProductService.java**

package lv.tsi.webshop.service;

import lombok.RequiredArgsConstructor;

import lv.tsi.webshop.Repository.ProductRepository;

import lv.tsi.webshop.models.ErrorResponse;

import lv.tsi.webshop.models.Product;

import org.springframework.http.HttpStatus;

import org.springframework.http.ResponseEntity;

import org.springframework.stereotype.Service;

import java.util.List;

import java.util.UUID;

@Service

@RequiredArgsConstructor

public class ProductService {

private final ProductRepository productRepository;

// public ProductService(ProductRepository productRepository) {

// this.productRepository = productRepository;

// }

public ResponseEntity<List<Product>> getAllProducts() {

return ResponseEntity.ok(productRepository.findAll());

}

public ResponseEntity getProductsById(Long id) {

var employee = productRepository.findById(id);

if(employee.isPresent()) {

return ResponseEntity.ok(employee.get());

} else {

return ResponseEntity.status(HttpStatus.NOT\_FOUND)

.body(

ErrorResponse.builder()

.errorCode("PRODUCT\_NOT\_FOUND")

.errorMessage("Product does not exist with id:" + id)

.referenceId(UUID.randomUUID().toString())

.build()

);

}

}

}

P.S spring boot fail to start

# Conclusion

Mostly all tasks have been accomplished.