**5. Spring Boot Exception Handling**

EProduct:

**package** com.ecommerce.entity;

**import** java.math.BigDecimal;

**import** java.util.Collection;

**import** java.util.Date;

**import** java.util.List;

**import** java.util.Set;

**import** java.util.Map;

**public** **class** EProduct {

**private** long ID;

**private** **String** name;

**private** **BigDecimal** price;

**private** **Date** dateAdded;

**public** EProduct() {

}

**public** long getID() {**return** **this**.ID; }

**public** **String** getName() { **return** **this**.name;}

**public** **BigDecimal** getPrice() { **return** **this**.price;}

**public** **Date** getDateAdded() { **return** **this**.dateAdded;}

**public** void setID(long id) { **this**.ID = id;}

**public** void setName(**String** name) { **this**.name = name;}

**public** void setPrice(**BigDecimal** price) { **this**.price = price;}

**public** void setDateAdded(**Date** date) { **this**.dateAdded = date;}

}

**ProductNotFoundException:**

**package** com.ecommerce.exceptions;

**public** **class** ProductNotFoundException **extends** RuntimeException {

**private** **static** **final** long serialVersionUID = 1L;

}

**EProductExceptionController:**

**package** com.ecommerce.controllers;

**import** org.springframework.http.HttpStatus;

**import** org.springframework.http.ResponseEntity;

**import** org.springframework.web.bind.annotation.ControllerAdvice;

**import** org.springframework.web.bind.annotation.ExceptionHandler;

**import** com.ecommerce.exceptions.ProductNotFoundException;

**@ControllerAdvice**

**public** **class** EProductExceptionController {

**@ExceptionHandler(value = ProductNotFoundException.class)**

**public** ResponseEntity<**Object**> exception(ProductNotFoundException exception) {

**return** **new** ResponseEntity<>("Product not found", HttpStatus.NOT\_FOUND);

}

}

**MainController:**

**package** com.ecommerce.controllers;

**import** org.springframework.http.HttpStatus;

**import** org.springframework.http.ResponseEntity;

**import** org.springframework.stereotype.Controller;

**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.ResponseBody;

**import** com.ecommerce.entity.EProduct;

**import** com.ecommerce.exceptions.ProductNotFoundException;

**@Controller**

**public** **class** MainController {

**@RequestMapping(value = "/product/{id}", method = RequestMethod.GET)**

**@ResponseBody**

**public** **String** getProduct(**@PathVariable("id")** **String** id) {

**if** (id.contentEquals("0"))

**throw** **new** ProductNotFoundException();

**return** "Product was found";

}

}