**1.Spring Boot Exception Handling**

**Source Code :**

**SpringBootStarterApplication.java**

package com.ecommerce;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringBootStarterApplication {

public static void main(String[] args) { SpringApplication.run(SpringBootStarterApplication.class, args);

}

}

**EProductExceptionController.java**

**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.java

**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";

}

}

# EProduct.java

**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.java package** com.ecommerce.exceptions;

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

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

}

OUTPUT:

