

Phase-3 Practice Project: Assisted Practice

1.Spring Boot Exception Handling.

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:

```
package com.ecommerce.exceptions;

public class ProductNotFoundException extends RuntimeException {
    private static final long serialVersionUID = 1L;
```

```
}
```

EProductExceptionHandler:

```
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 EProductExceptionHandler {
```

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

```
        public ResponseEntity<Object> exception(ProductNotFoundException exception)
```

```
{
```

```
        return new ResponseEntity<>("Product not found", HttpStatus.NOT_FOUND);
```

```
    }
```

```
}
```

Main controller:

```
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"))
```

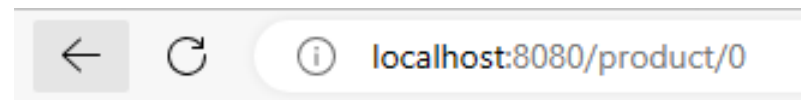
```
                throw new ProductNotFoundException();
```

```
            return "Product was found";
```

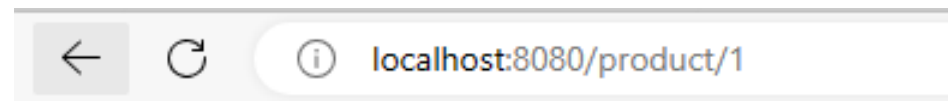
```
        }
```

```
}
```

Output:



Product not found



Product was found