

# **Spring Boot Exception Handling**

Step 1: Creating a EProduct entity class

```
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;}
```

```
}
```

Step 2: Creating a ProductNotFoundException class

```
package com.ecommerce.exceptions;
```

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

```
}
```

Step 3: Creating a EProductExceptionHandler class

```
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);  
    }  
}
```

```
}
```

#### Step 4: Creating MainController to throw ProductNotFoundException

```
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";  
    }  
}
```