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#### Week 4 Assessment Question:

I. Project template is provided .

Need to

implement

1. Rest Controller

2.

Product Service

3.

Product Dao with one custom query

- Create ProductNotFoundException in com.verizon.exception

package Perform All 1. void AddProduct(),

- List<Product> GetAllProducts(),
- Product GetProductById(Integer id)

throws ProductNotFoundException

- List<Product>

GetAllProductsBetweenPrice(Integer low, Integer high);

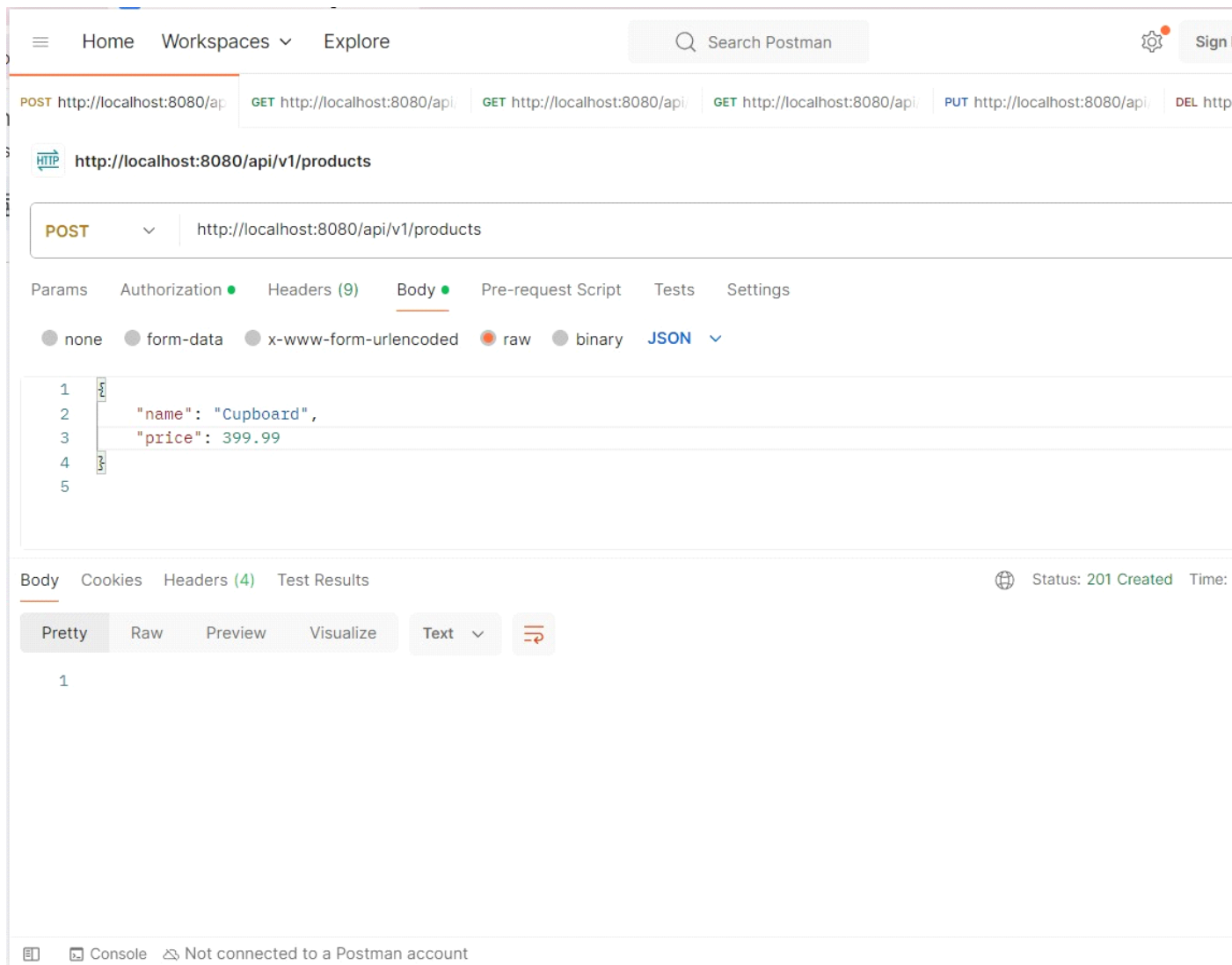
void UpdateProduct(Integer  
id, Product product) throws ProductNotFoundException

void DeleteProduct(Integer  
id) throws ProductNotFoundException

submit project source code in Zip format

Send screenshots of postman for all above operations in Word doc.

Screenshots of Postman Implementations:



• Insertion of a product into database:

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Sign In

POST http://localhost:8080/api/GET http://localhost:8080/api/GET http://localhost:8080/api/GET http://localhost:8080/api/PUT http://localhost:8080/api/DEL http://lo

HTTP

http://localhost:8080/api/v1/products

GET

http://localhost:8080/api/v1/products

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

Query Params

Key	Value
Key	Value

BodyCookiesHeaders (5)Test Results

Status: 200 OKTime: 14 m

PrettyRawPreviewVisualizeJSON

```
10      "price": 119.99
11    },
12    {
13      "id": 5,
14      "name": "Bed",
15      "price": 299.99
16    },
17    {
18      "id": 6,
19      "name": "Bean Bag",
20      "price": 99.99
21    },
22    {
23      "id": 8,
24      "name": "Cupboard",
25      "price": 399.99
```

- Retrieving All products from database:

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POST http://localhost:8080/ap GET http://localhost:8080/api GET http://localhost:8080/api GET http://localhost:8080/api PUT http://localhost:8080/api DEL http

HTTP http://localhost:8080/api/v1/products/3

GET http://localhost:8080/api/v1/products/3

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

Key	Value
Key	Value

Body Cookies Headers (5) Test Results ⌐ Status: 200 OK Time:

Pretty Raw Preview Visualize JSON ⌐

```
1 {
2   "id": 3,
3   "name": "Table",
4   "price": 249.99
5 }
```

⌐ ⌐ Console ⌐ Not connected to a Postman account

Retrieving product with a specific ID. Example ID = 3:

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Sign In

POST http://localhost:8080/api/GET http://localhost:8080/api/GET http://localhost:8080/api/GET http://localhost:8080/api/PUT http://localhost:8080/api/DEL http://localhost:8080/api/

HTTP http://localhost:8080/api/v1/products/2

GET http://localhost:8080/api/v1/products/2

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

Query Params

Key	Value
Key	Value

BodyCookiesHeaders (5)Test Results

PrettyRawPreviewVisualizeJSON

```
1 {
2   "status": 404,
3   "error": "Not Found",
4   "message": "Product not found with ID: 2",
5   "path": "/api/v1/products"
6 }
```

- Console Not connected to a Postman account

ProductNotFoundException:

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Sign In

POST http://localhost:8080/apiGET http://localhost:8080/apiGET http://localhost:8080/apiGET http://localhost:8080/apiPUT http://localhost:8080/apiDEL http://localhost:8080/api

HTTP http://localhost:8080/api/v1/products/price?low=100&high=300

GET http://localhost:8080/api/v1/products/price?low=100&high=300

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

Query Params

Key	Value

BodyCookiesHeaders (5)Test Results

PrettyRawPreviewVisualizeJSON


```
1  [
2    {
3      "id": 3,
4      "name": "Table",
5      "price": 249.99
6    },
7    {
8      "id": 4,
9      "name": "Chair",
10     "price": 119.99
11   },
12   {
13     "id": 5,
14     "name": "Bed",
15     "price": 299.99
16   }
17 ]
```

- Console Not connected to a Postman account

Retrieving products between a specific price range. The price is passed as query parameters in this case.

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POST http://localhost:8080/ap GET http://localhost:8080/ap GET http://localhost:8080/ap GET http://localhost:8080/ap PUT http://localhost:8080/ap

 http://localhost:8080/api/v1/products/3


GET ▼ http://localhost:8080/api/v1/products/3

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

	Key	Value
	Key	Value

Body Cookies Headers (5) Test Results ⌚ Status: 200 OK

Pretty Raw Preview Visualize JSON ▼ 

```
1 {
2   "id": 3,
3   "name": "Table",
4   "price": 199.99
5 }
```

- Updating a specific product, using productID. In this case we update the product with ID 3:  
Before updating:  
Performing Update operation:

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Sign In

POST http://localhost:8080/ap

GET http://localhost:8080/api/

GET http://localhost:8080/api/

GET http://localhost:8080/api/

PUT http://localhost:8080/api/

DEL http://lo

HTTP

http://localhost:8080/api/v1/products/3

PUT ▾

http://localhost:8080/api/v1/products/3

Params

Authorization

Headers (8)

Body ●

Pre-request Script

Tests

Settings

● none

● form-data

● x-www-form-urlencoded

● raw

● binary

JSON ▾

1

2

3

4

5

```
"name": "Dining Table",  
"price": 349.99
```

Body

Cookies

Headers (3)

Test Results

🌐

Status: 204 No Content

Time: 18

Pretty

Raw

Preview

Visualize

Text ▾

🔃

1



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Sign In

POST http://localhost:8080/api/GET http://localhost:8080/api/GET http://localhost:8080/api/GET http://localhost:8080/api/PUT http://localhost:8080/api/DEL http://localhost:8080/api/

HTTP

http://localhost:8080/api/v1/products/3

GET

http://localhost:8080/api/v1/products/3

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

Query Params

Key	Value
Key	Value

BodyCookiesHeaders (5)Test Results

Status: 200 OKTime: 1

PrettyRawPreviewVisualizeJSON

```
1 {
2   "id": 3,
3   "name": "Dining Table",
4   "price": 349.99
5 }
```

After update operation:

The screenshot shows the Postman interface for a PUT request to `http://localhost:8080/api/v1/products/2`. The request body is a JSON object:

```
1 {
2   "name": "Dining Table",
3   "price": 349.99
4 }
5
```

The response status is `404 Not Found` with a time of `12 ms`. The response body is a JSON object:

```
1 {
2   "status": 404,
3   "error": "Not Found",
4   "message": "Product not found with ID: 2",
5   "path": "/api/v1/products"
6 }
```

Trying to update a product with a productID that doesn't exist in the database:

- Deleting a product successfully:

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Sign In

POST http://localhost:8080/apGET http://localhost:8080/apGET http://localhost:8080/apGET http://localhost:8080/apPUT http://localhost:8080/apDEL http://lo

HTTP http://localhost:8080/api/v1/products

GEThttp://localhost:8080/api/v1/products

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

Query Params

Key	Value
Key	Value

BodyCookiesHeaders (5)Test Results

PrettyRawPreviewVisualizeJSON

```
12  {
13    "id": 5,
14    "name": "Bed",
15    "price": 299.99
16  },
17  {
18    "id": 6,
19    "name": "Bean Bag",
20    "price": 99.99
21  },
22  {
23    "id": 8,
24    "name": "Cupboard",
25    "price": 399.99
26  }
27 }
```

All the products before deleting a product with ID 8:

Performing Delete Operation:



POST http://localhost:8080/api/ GET http://localhost:8080/api/ GET http://localhost:8080/api/ GET http://localhost:8080/api/ PUT http://localhost:8080/api/ DEL http://localhost:8080/api/

HTTP http://localhost:8080/api/v1/products/8

DELETE http://localhost:8080/api/v1/products/8

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

	Key	Value
	Key	Value

Body Cookies Headers (3) Test Results

Status: 204 No Content Time: 19 ms

Pretty Raw Preview Visualize Text

1

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POST http://localhost:8080/apGET http://localhost:8080/apiGET http://localhost:8080/apiGET http://localhost:8080/apiPUT http://localhost:8080/apiDEL h

HTTP

http://localhost:8080/api/v1/products

GET

http://localhost:8080/api/v1/products

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

Query Params

Key	Value
Key	Value

BodyCookiesHeaders (5)Test Results

Status: 200 OK

PrettyRawPreviewVisualizeJSON

```
1  {
2    "id": 4,
3    "name": "Chair",
4    "price": 119.99
5  },
6  {
7    "id": 5,
8    "name": "Bed",
9    "price": 299.99
10  },
11  {
12    "id": 6,
13    "name": "Bean Bag",
14    "price": 99.99
15  }
16 }
```

Now displaying all the products in the database:

Trying to delete a product with a productID that doesn't exist in the database:

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Sign In

POST http://localhost:8080/api/GET http://localhost:8080/api/GET http://localhost:8080/api/GET http://localhost:8080/api/PUT http://localhost:8080/api/DEL http://localhost:8080/api/

HTTP

http://localhost:8080/api/v1/products/8

DELETE

http://localhost:8080/api/v1/products/8

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Query Params

Key	Value
Key	Value

Body

Cookies

Headers (5)

Test Results

Status: 404 Not Found

Time: 1

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

"status": 404,

"error": "Not Found",

"message": "Product not found with ID: 8",

"path": "/api/v1/products"

THANK  
YOU