

Postman Screenshots

1) Category endpoint(/api/categories)

a) Creating a category

This screenshot shows a Postman interface for a POST request to the endpoint `http://localhost:8080/api/categories`. The request body is a JSON object with the following structure:

```
1 {
2   "name": "Electronics",
3   "description": "the category of devices runs on electricity."
4 }
```

The response is displayed in the bottom pane, showing a status of **201 Created** with a response time of 296 ms and a body size of 259 B. The response body is a JSON object:

```
1 {
2   "id": 1,
3   "name": "Electronics",
4   "description": "the category of devices runs on electricity."
5 }
```

The interface includes tabs for Docs, Params, Authorization, Headers (9), Body (selected), Scripts, and Settings. The Body tab is active, showing the raw JSON data. The response pane also has tabs for Body, Cookies, Headers (5), Test Results, and a refresh icon.

b) Creating second category

This screenshot shows a Postman interface for a POST request to the endpoint `http://localhost:8080/api/categories`. The request body is a JSON object with the following structure:

```
1 {
2   "name": "Dairy",
3   "description": "these are basically milk based product."
4 }
```

The response is displayed in the bottom pane, showing a status of **201 Created** with a response time of 168 ms and a body size of 248 B. The response body is a JSON object:

```
1 {
2   "id": 2,
3   "name": "Dairy",
4   "description": "these are basically milk based product."
5 }
```

The interface includes tabs for Docs, Params, Authorization, Headers (9), Body (selected), Scripts, and Settings. The Body tab is active, showing the raw JSON data. The response pane also has tabs for Body, Cookies, Headers (5), Test Results, and a refresh icon.

c) Getting all categories

HTTP <http://localhost:8080/api/categories> Save Share

GET <http://localhost:8080/api/categories> Send

Docs Params Authorization Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description	Bulk Edit

Body Cookies Headers (5) Test Results 200 OK • 15 ms • 336 B

JSON Preview Visualize

```
1 [
2   {
3     "id": 1,
4     "name": "Electronics",
5     "description": "the category of devices runs on electricity."
6   },
7   {
8     "id": 2,
9     "name": "Dairy",
10    "description": "these are basically milk based product."
11  }
12 ]
```

d) Deleting a category

HTTP <http://localhost:8080/api/categories/1> Save Share

DELETE <http://localhost:8080/api/categories/1> Send

Docs Params Authorization Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description	Bulk Edit

Body Cookies Headers (3) Test Results 204 No Content • 168 ms • 112 B

Raw Preview Visualize

```
1
```

e) Fetching the category

HTTP <http://localhost:8080/api/categories/2> Save Share

GET <http://localhost:8080/api/categories/2> Send

Docs Params Authorization Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description	Bulk Edit

Body Cookies Headers (5) Test Results 200 OK • 50 ms • 243 B

JSON Preview Visualize

```
1 {
2   "id": 2,
3   "name": "Dairy",
4   "description": "these are basically milk based product."
5 }
```

2) Product Endpoints(/api/products)

a) Creating products

HTTP <http://localhost:8080/api/products> Save Share

POST <http://localhost:8080/api/products> Send

Docs Params Authorization Headers (9) **Body** Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** Beautify

```
1 {
2   "name": "Amul Milk",
3   "price": 35,
4   "quantity": 900,
5   "categoryId": 2
6 }
```

Body Cookies Headers (5) Test Results 201 Created 192 ms 346 B 🌐 ⋮

{} JSON Preview Visualize 🔍 📄 🔗

```
1 {
2   "id": 1,
3   "name": "Amul Milk",
4   "price": 35.0,
5   "quantity": 900,
6   "category_id": 2,
7   "category_name": "Dairy",
8   "createdAt": "2025-12-09T22:23:08.288268",
9   "updatedAt": "2025-12-09T22:23:08.288268"
}
```

b) Fetching product

HTTP <http://localhost:8080/api/products/4> Save Share

GET <http://localhost:8080/api/products/4> Send

Docs **Params** Authorization Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description	⋮	Bulk Edit
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Body Cookies Headers (5) Test Results 200 OK 17 ms 345 B 🌐 ⋮

{} JSON Preview Visualize 🔍 📄 🔗

```
1 {
2   "id": 4,
3   "name": "Laptop",
4   "price": 39578.8,
5   "quantity": 1,
6   "category_id": 1,
7   "category_name": "Electronics",
8   "createdAt": "2025-12-09T22:46:39.532484",
9   "updatedAt": "2025-12-09T22:46:39.532484"
10 }
```

c) Updating a product

HTTP <http://localhost:8080/api/products/4> Save Share

PUT <http://localhost:8080/api/products/4> Send

Docs Params Authorization Headers (9) **Body** Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON Beautifuly

```
1 {
2   "name": "Amul Sweet Lassi",
3   "price": 15,
4   "quantity": 100,
5   "categoryId": 2
6 }
```

Body Cookies Headers (5) Test Results 200 OK 147 ms 348 B 🌐 ⋮

{} JSON Preview Visualize 🔍 📄 🔗

```
1 {
2   "id": 4,
3   "name": "Amul Sweet Lassi",
4   "price": 15.0,
5   "quantity": 100,
6   "category_id": 2,
7   "category_name": "Dairy",
8   "createdAt": "2025-12-09T22:46:39.532484",
9   "updatedAt": "2025-12-09T22:48:05.713397"
10 }
```

d) Deleting a product

HTTP <http://localhost:8080/api/products/4> Save Share

DELETE <http://localhost:8080/api/products/4> Send

Docs **Params** Authorization Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description	⋮ Bulk Edit
-----	-------	-------------	-------------

Body Cookies Headers (3) Test Results 204 No Content 125 ms 112 B 🌐 ⋮

Raw Preview Visualize 🔍 📄 🔗

1

e) Fetching using filters

1) Fetching all the products(all filters null)

http://localhost:8080/api/products

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

200 OK · 64 ms · 890 B

JSON

```
1 {
2   {
3     "id": 1,
4     "name": "Amul Milk",
5     "price": 35.0,
6     "quantity": 900,
7     "category_id": 2,
8     "category_name": "Dairy",
9     "createdAt": "2025-12-09T22:23:08.288268",
10    "updatedAt": "2025-12-09T22:23:08.288268"
11  },
12  {
13    "id": 2,
14    "name": "Mother Dairy IceCream",
15    "price": 25.0,
16    "quantity": 90,
17    "category_id": 2,
18    "category_name": "Dairy",
19    "createdAt": "2025-12-09T22:23:36.529626",
20    "updatedAt": "2025-12-09T22:23:36.529626"
21  },
22  {
23    "id": 3,
24    "name": "Amul Butter",
25    "price": 58.0,
26    "quantity": 900,
27    "category_id": 2,
28    "category_name": "Dairy",
29    "createdAt": "2025-12-09T22:23:36.529626",
30    "updatedAt": "2025-12-09T22:23:36.529626"
31  }
32 }
```

2) Filter(category:2 , maxprice :25)

http://localhost:8080/api/products

GET http://localhost:8080/api/products?categoryId=2&maxPrice=25

200 OK · 26 ms · 532 B

JSON

```
3 {
4   "id": 2,
5   "name": "Mother Dairy IceCream",
6   "price": 25.0,
7   "quantity": 90,
8   "category_id": 2,
9   "category_name": "Dairy",
10  "createdAt": "2025-12-09T22:23:36.529626",
11  "updatedAt": "2025-12-09T22:23:36.529626"
12 },
13 {
14   "id": 5,
15   "name": "Amul cheese",
16   "price": 25.0,
17   "quantity": 0,
18   "category_id": 2,
19   "category_name": "Dairy",
20   "createdAt": "2025-12-10T07:53:45.539088",
21   "updatedAt": "2025-12-10T07:53:45.539088"
22 }
```

Key	Value	Description
<input checked="" type="checkbox"/> categoryId	2	
<input checked="" type="checkbox"/> maxPrice	25	
<input type="checkbox"/> minPrice	10	

3) With All Three filters

http://localhost:8080/api/products Save Share

GET ▼ http://localhost:8080/api/products?categoryId=2&maxPrice=60&minPrice=36 Send ▼

Docs Params **Authorization** Headers (7) Body Scripts Settings Cookies

<input checked="" type="checkbox"/> Key	Value	Description	⋮ Bulk Edit
<input checked="" type="checkbox"/> categoryId	2		
<input checked="" type="checkbox"/> maxPrice	60		
<input checked="" type="checkbox"/> minPrice	36		
<input type="checkbox"/> Key	Value	Description	

Body Cookies Headers (5) Test Results 🔍 200 OK 46 ms 345 B ⋮

{} JSON ▼ ▶ Preview 🖼️ Visualize ▼

```
1 [
2   {
3     "id": 3,
4     "name": "Amul Butter",
5     "price": 58.0,
6     "quantity": 900,
7     "category_id": 2,
8     "category_name": "Dairy",
9     "createdAt": "2025-12-09T22:25:50.347677",
10    "updatedAt": "2025-12-09T22:25:50.347677"
11  }
12 ]
```

3) Validation and Exception

a) Fetching category after deleting it

HTTP <http://localhost:8080/api/categories/1> Save Share

GET <http://localhost:8080/api/categories/1> Send

Docs Params Authorization Headers (7) Body Scripts Settings Cookies

Body Cookies Headers (5) Test Results 404 Not Found • 19 ms • 295 B • 🌐 ⋮

{} JSON ▶ Preview 🔍 Debug with AI ⌵ 🔍 🔍 🔍 🔍 🔍

```
1 {
2   "timestamp": "2025-12-09T22:53:19.0912385",
3   "message": "Category with Id 1 not found",
4   "path": "/api/categories/1",
5   "status": 404
6 }
```

b) Creating duplicate category

HTTP <http://localhost:8080/api/categories> Save Share

POST <http://localhost:8080/api/categories> Send

Docs Params Authorization Headers (9) Body ● Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON ⌵ Beautify

```
1 {
2   "name": "Dairy",
3   "description": "these are basically milk based product."
4 }
```

Body Cookies Headers (5) Test Results 409 Conflict • 16 ms • 299 B • 🌐 ⋮

{} JSON ▶ Preview 🔍 Debug with AI ⌵ 🔍 🔍 🔍 🔍 🔍

```
1 {
2   "timestamp": "2025-12-10T07:48:31.9994719",
3   "message": "This Category Dairy already exists.",
4   "path": "/api/categories",
5   "status": 409
6 }
```

c) Putting name of category as null

HTTP <http://localhost:8080/api/categories> Save Share

POST <http://localhost:8080/api/categories> Send

Docs Params Authorization Headers (9) Body ● Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON ⌵ Beautify

```
1 {
2   "name": "",
3   "description": "These are the beauty products"
4 }
```

Body Cookies Headers (4) Test Results 400 Bad Request • 87 ms • 272 B • 🌐 ⋮

{} JSON ▶ Preview 🔍 Debug with AI ⌵ 🔍 🔍 🔍 🔍 🔍

```
1 {
2   "timestamp": "2025-12-10T07:49:24.9017562",
3   "message": "name: Name of Category is required",
4   "path": "/api/categories",
5   "status": 400
6 }
```

d) Putting name of Product as null

HTTP <http://localhost:8080/api/products> Save Share

POST <http://localhost:8080/api/products> Send

Docs Params Authorization Headers (9) **Body** Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** Beautify

```
1 {
2   "name": "",
3   "price": 25,
4   "quantity": 90,
5   "categoryId": 2
6 }
```

Body Cookies Headers (4) Test Results 400 Bad Request • 33 ms • 266 B • 🌐 ⋮

{} JSON Preview Debug with AI 🔍 🔧 🔗

```
1 {
2   "timestamp": "2025-12-10T07:51:01.1348201",
3   "message": "name: Product name is required",
4   "path": "/api/products",
5   "status": 400
6 }
```

e) Putting Price of product as null

HTTP <http://localhost:8080/api/products> Save Share

POST <http://localhost:8080/api/products> Send

Docs Params Authorization Headers (9) **Body** Scripts Settings Cookies

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** Beautify

```
1 {
2   "name": "Amul cheese",
3   "price": "",
4   "quantity": 90,
5   "categoryId": 2
6 }
```

Body Cookies Headers (4) Test Results 400 Bad Request • 15 ms • 260 B • 🌐 ⋮

{} JSON Preview Debug with AI 🔍 🔧 🔗

```
1 {
2   "timestamp": "2025-12-10T07:51:49.7893988",
3   "message": "price: Price is required",
4   "path": "/api/products",
5   "status": 400
6 }
```


f) Price < 0 (Negative price)

HTTP <http://localhost:8080/api/products> Save Share

POST <http://localhost:8080/api/products> Send

Docs Params Authorization Headers (9) **Body** Scripts Settings Cookies Beautify

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON**

```
1 {
2   "name": "Amul cheese",
3   "price": -2,
4   "quantity": 90,
5   "categoryId": 2
6 }
```

Body Cookies Headers (4) Test Results **400 Bad Request** • 15 ms • 259 B • 🌐 ⋮

{} **JSON** Preview Debug with AI ⋮

```
1 {
2   "timestamp": "2025-12-10T07:52:37.643643",
3   "message": "price: Price must be > 0",
4   "path": "/api/products",
5   "status": 400
6 }
```

g) Trying to add duplicate product

HTTP <http://localhost:8080/api/products> Save Share

POST <http://localhost:8080/api/products> Send

Docs Params Authorization Headers (9) **Body** Scripts Settings Cookies Beautify

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON**

```
1 {
2   "name": "Amul cheese",
3   "price": 25,
4   "quantity": 0,
5   "categoryId": 2
6 }
```

Body Cookies Headers (5) Test Results **409 Conflict** • 1.36 s • 307 B • 🌐 ⋮

{} **JSON** Preview Debug with AI ⋮

```
1 {
2   "timestamp": "2025-12-10T09:13:40.6175791",
3   "message": "Duplicate product: Amul cheese already exists",
4   "path": "/api/products",
5   "status": 409
6 }
```