

1. GET /products - Get All Products

Description: Retrieves all products available in the database. Useful for displaying product listings on the website.

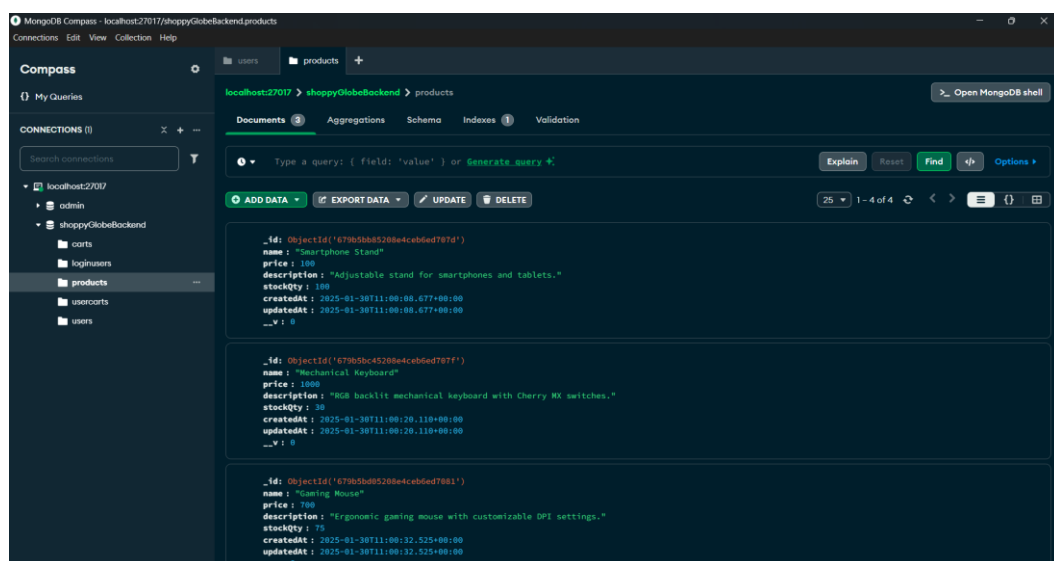
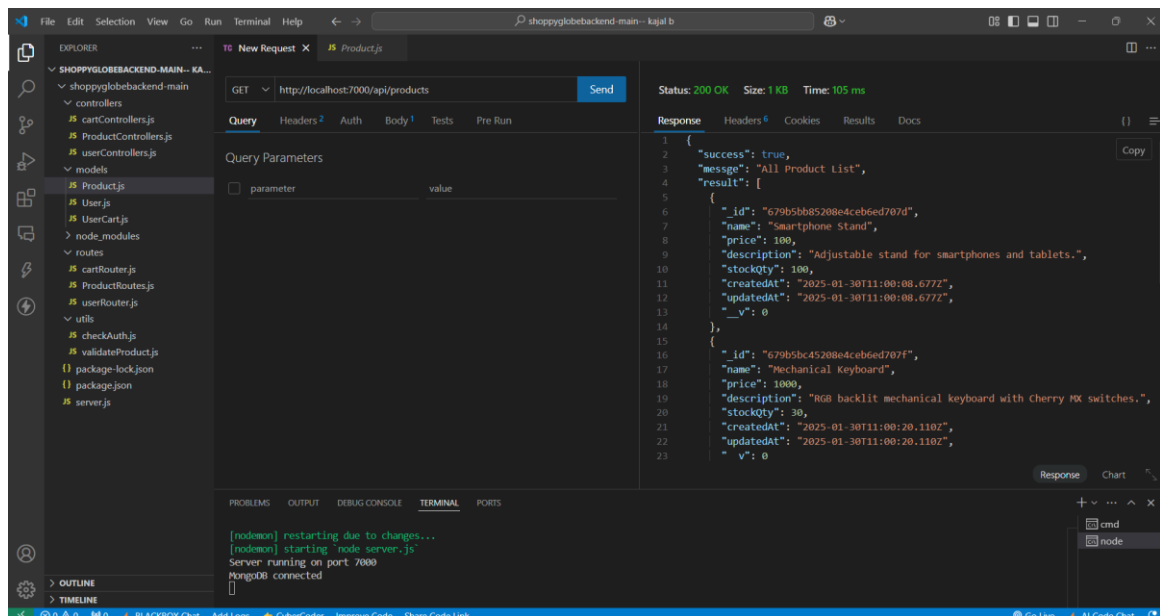
Request:

- **Method:** GET
- **URL:** /products

Example Request:

http://localhost:7000/api/products

ScreenShots:



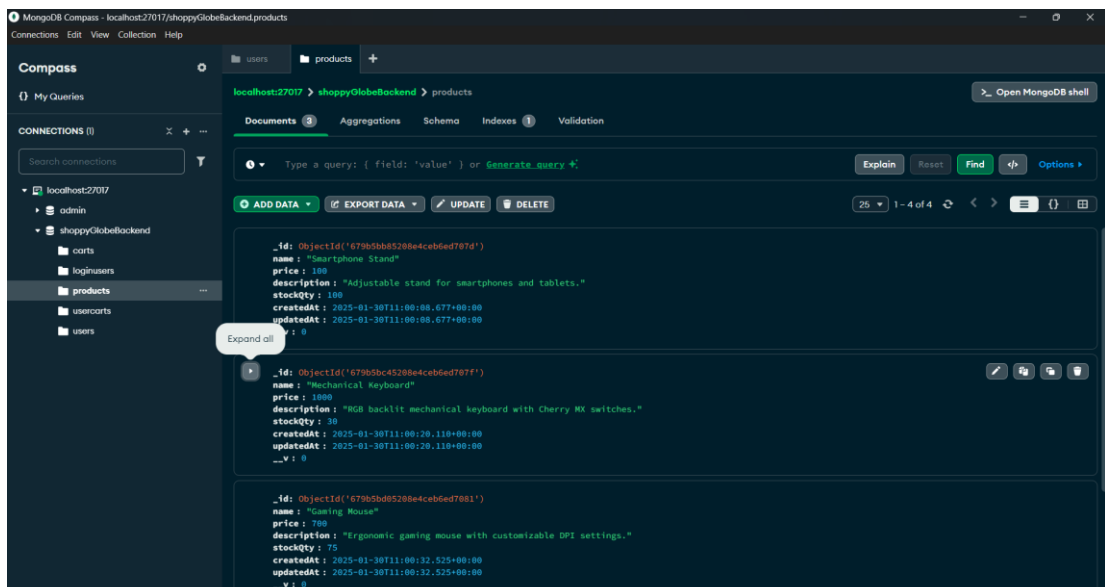
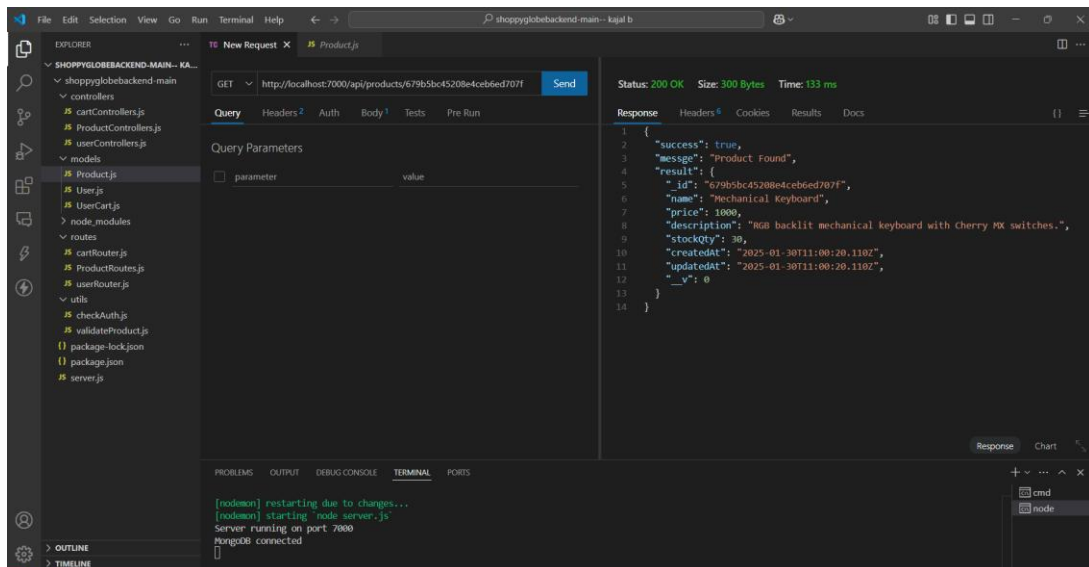
2. GET /products/:id - Get Product by ID

Description: Fetches a specific product using its unique ID. This is useful when viewing detailed product information.

Request:

- **Method:** GET
- **URL:** /products/:id

ScreenShots:



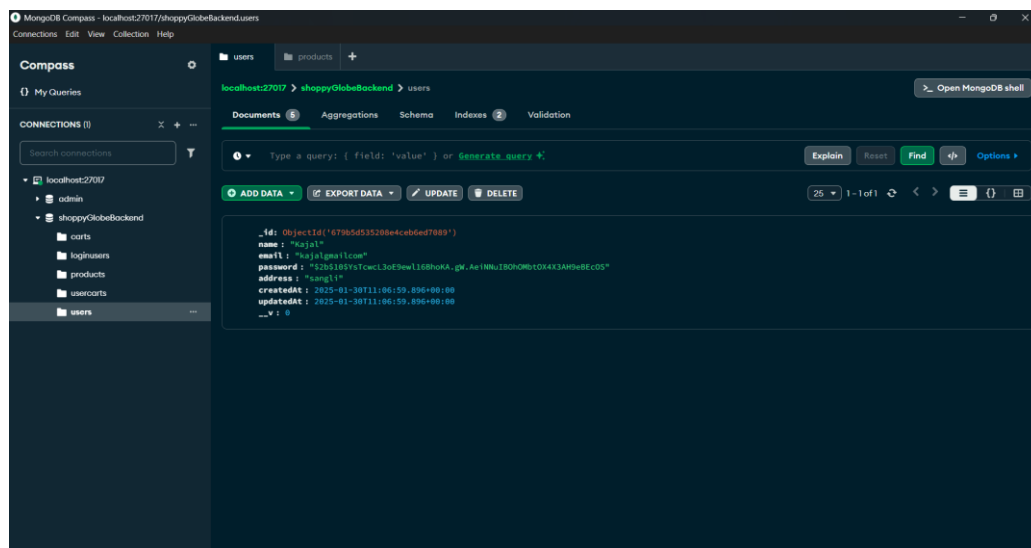
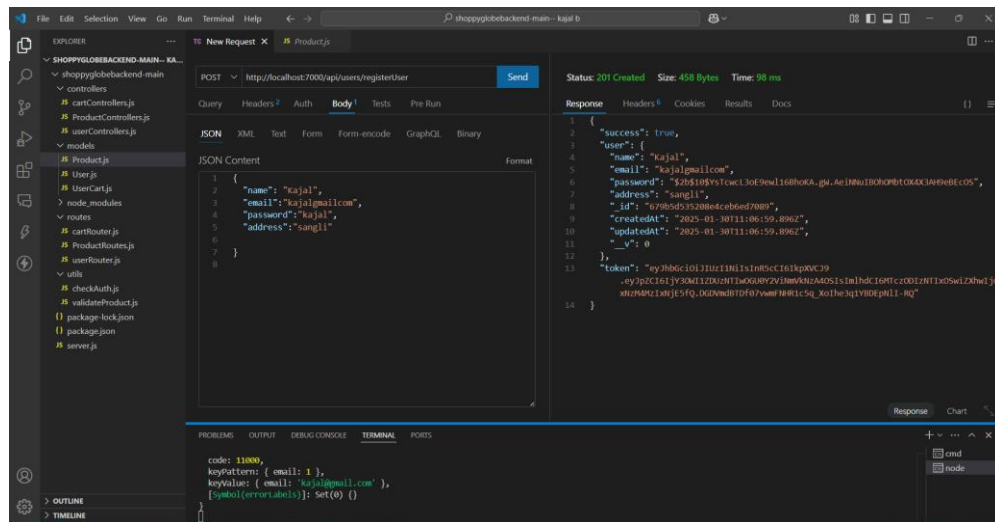
3. POST /register - Register a New User

Description: Allows new users to create an account by providing necessary credentials such as email and password.

Request:

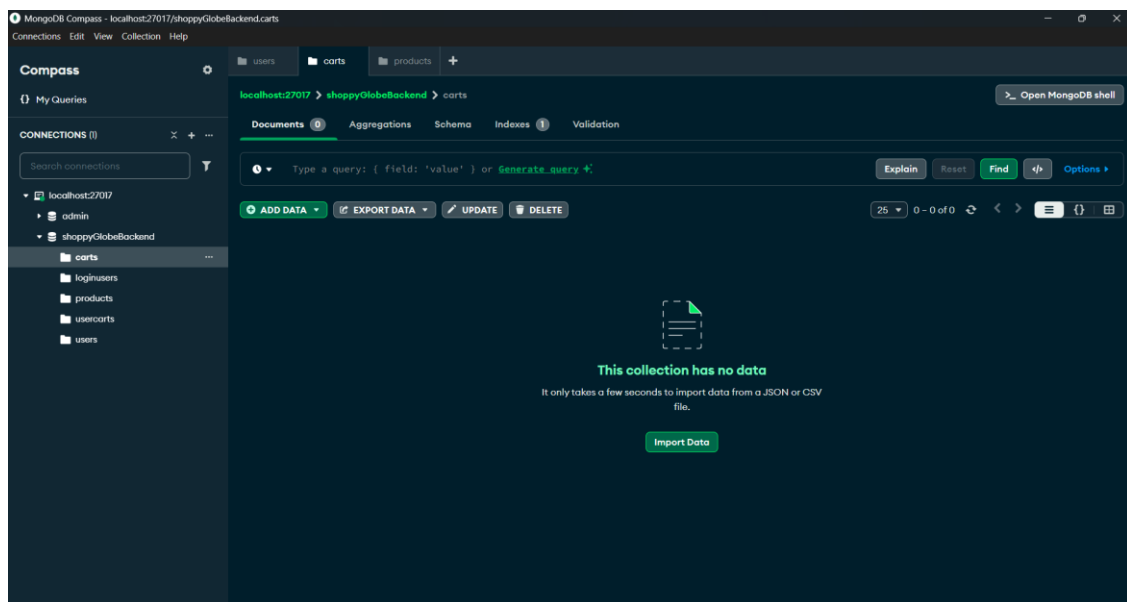
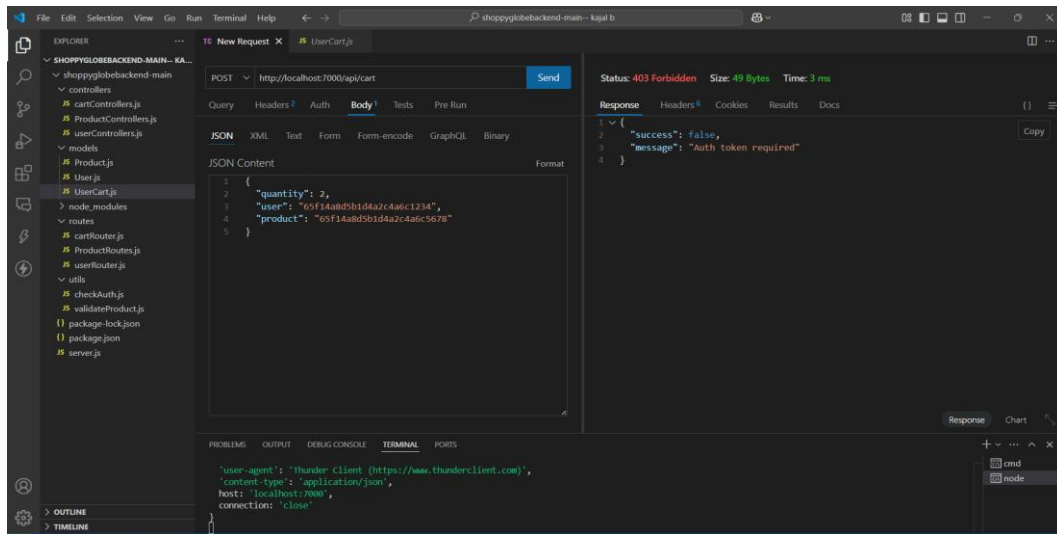
- **Method:** POST
- **URL:** /registerUser

Screenshots:



Checking Authorization: Adding item to cart without login:

As shown in the below image, it will ask for token in backend.



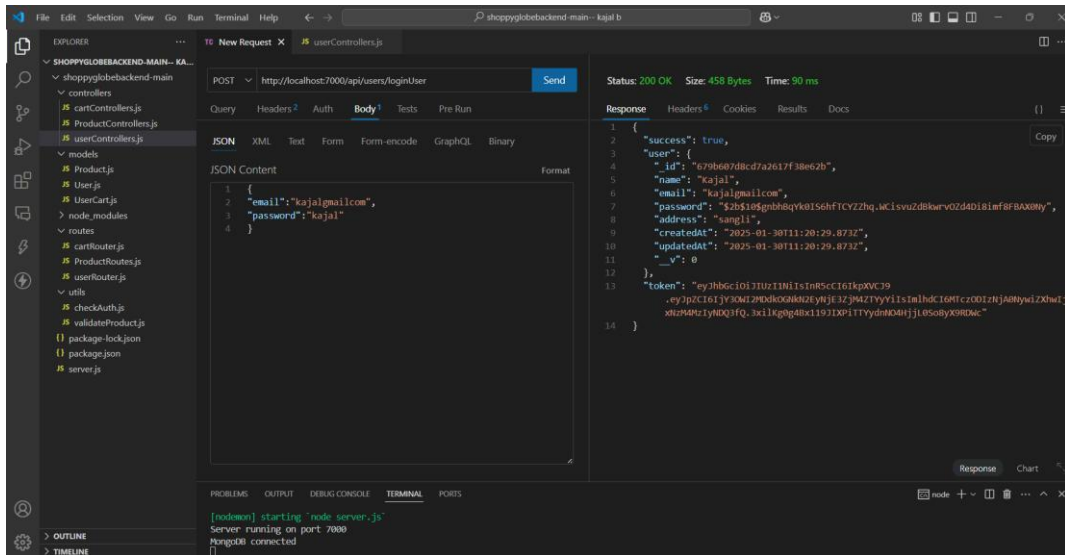
4. POST /login - User Login

Description: Authenticates a user using credentials and generates a token for secure access to protected routes.

Request:

- **Method:** POST
- **URL:** /loginUser

Screenshot:

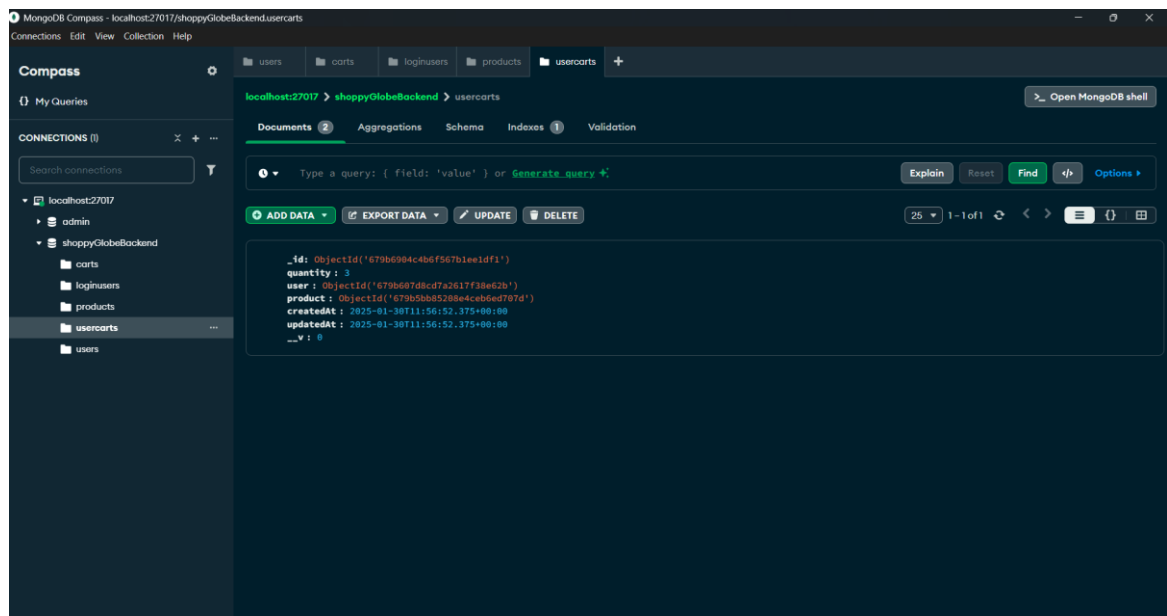
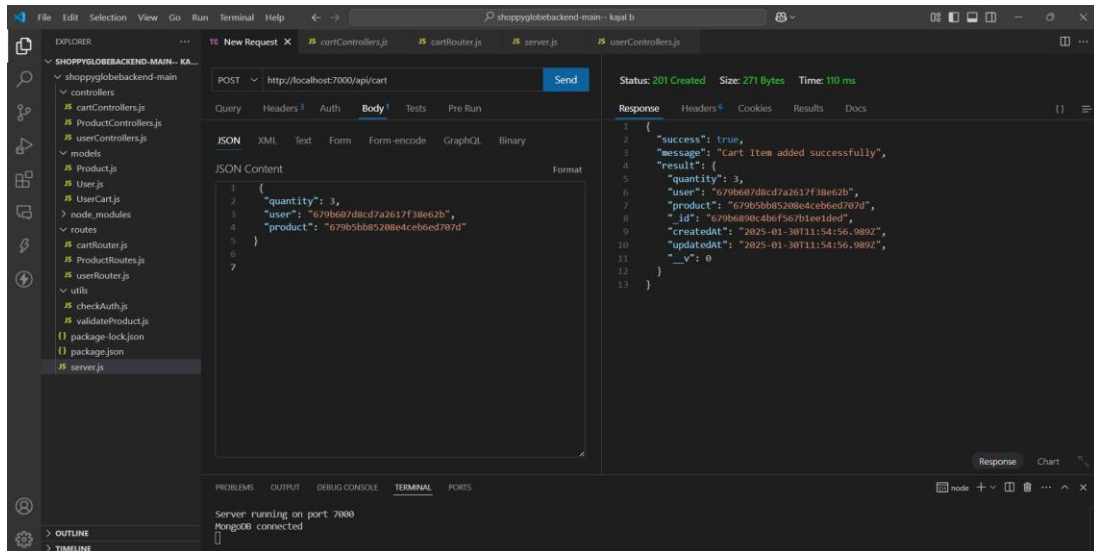


5. POST /cart - Add Item to Cart

Description: Allows a logged-in user to add items to their cart. If the item already exists, the quantity is updated.

Request:

- **Method:** POST
- **URL:** /cart

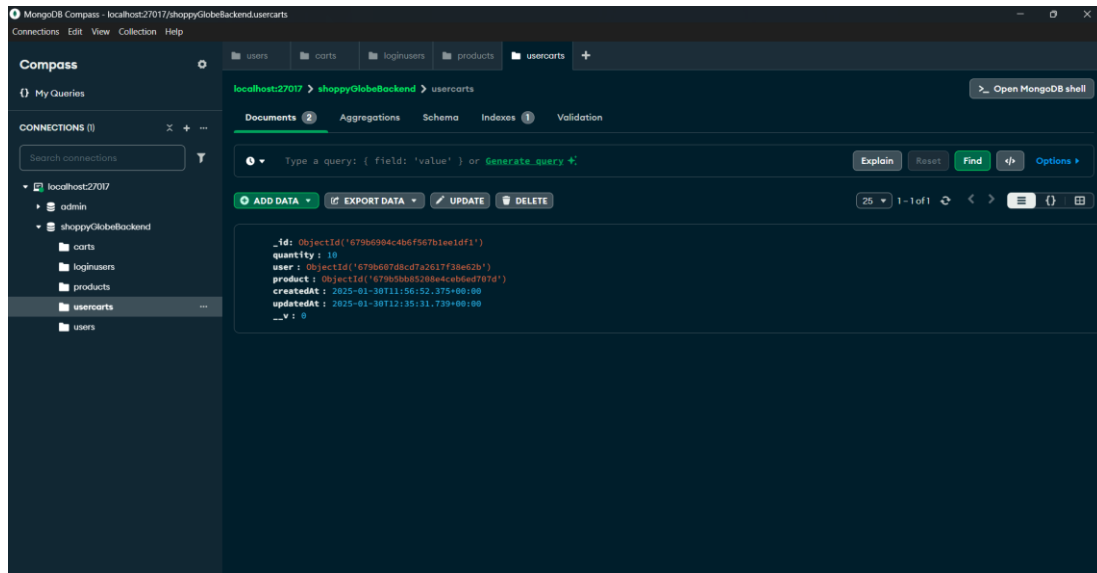
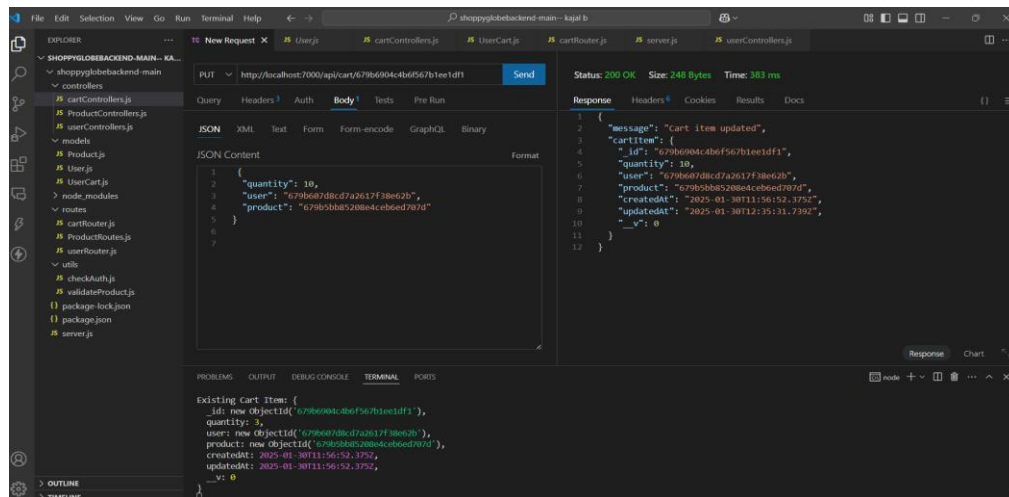


6. PUT /cart/:id - Update Cart Item

Description: Modifies the quantity of an item in the cart. This helps users adjust their cart before checkout.

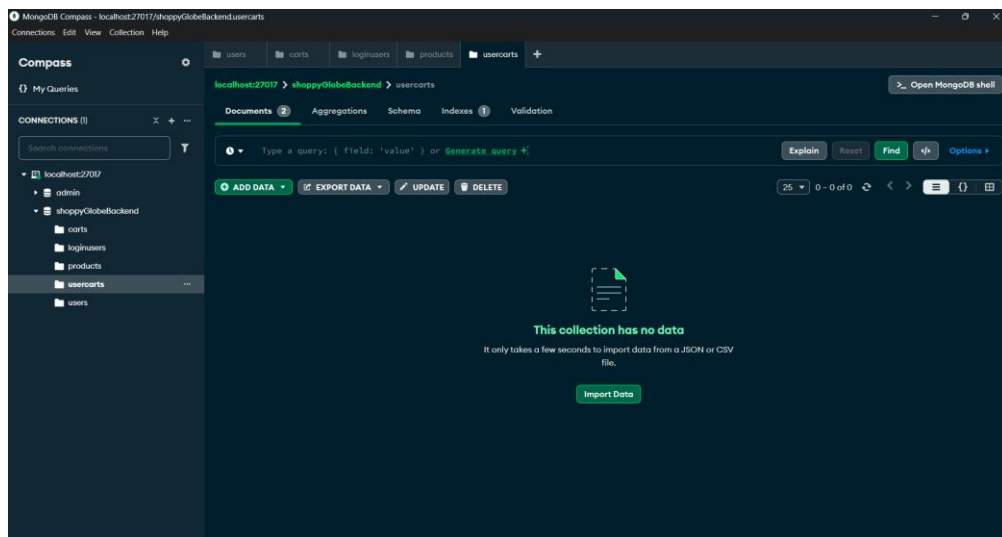
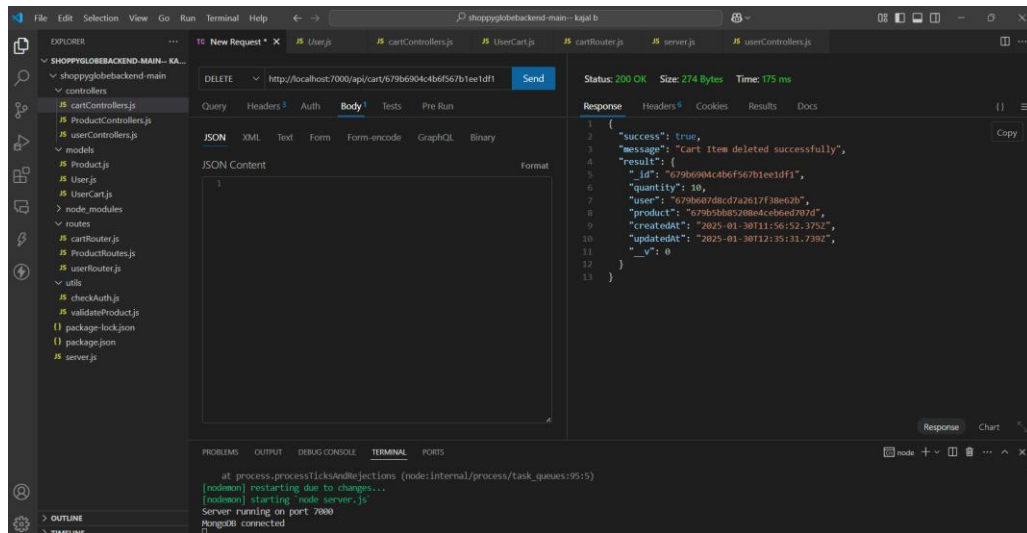
Request:

- **Method:** PUT
- **URL:** /cart/:id



7. DELETE /cart/:id - Delete Cart Item

Description: Removes a specific item from the cart. Useful for users who change their purchase decisions.

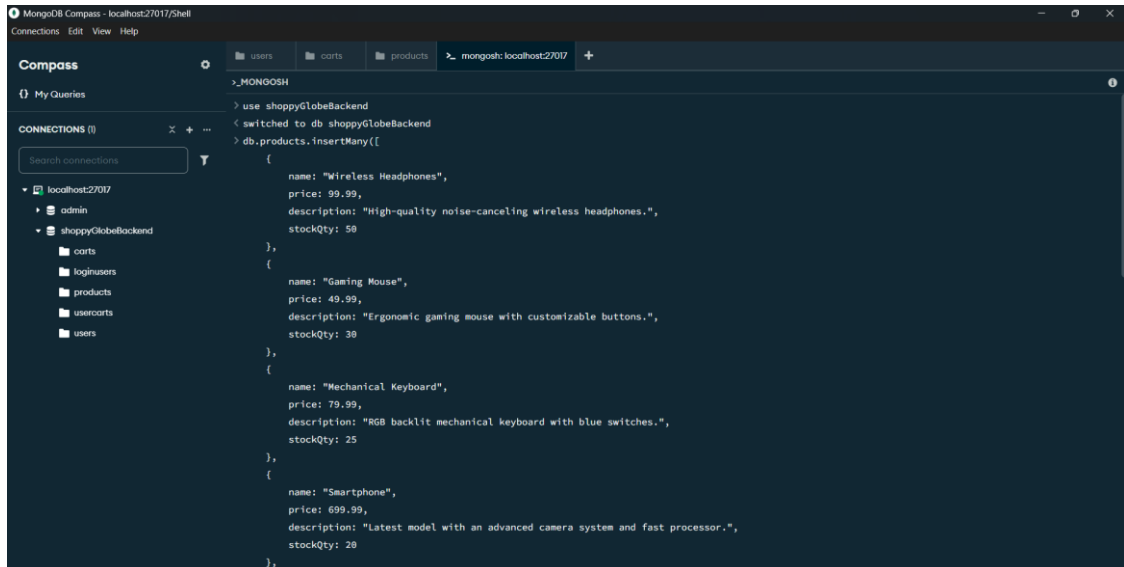


CRUD operations:

Inserting data to products collection :

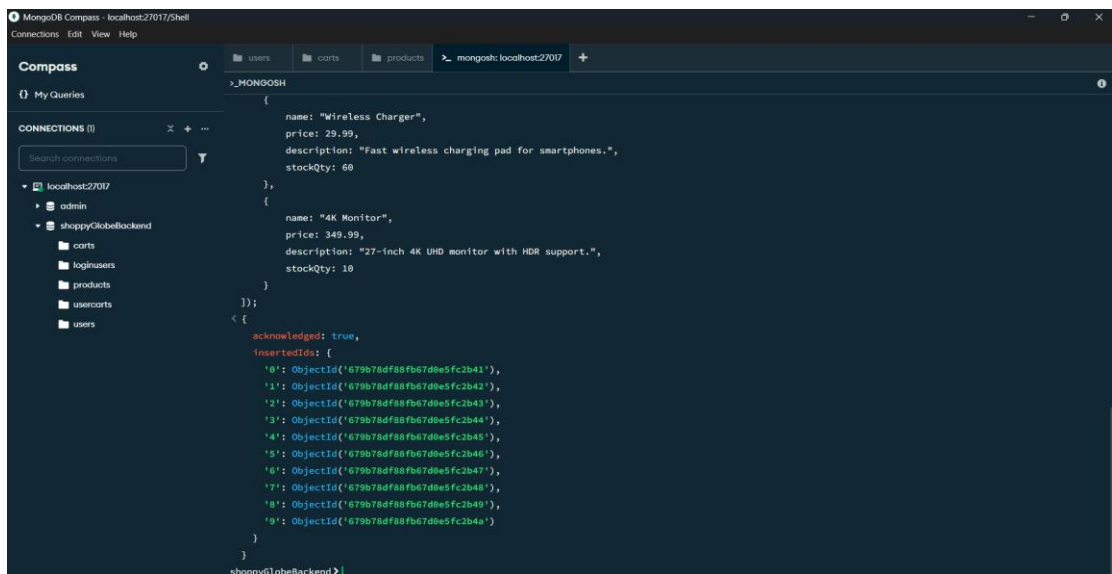
By using

```
db.products.insertMany({ products });
```



The screenshot shows the MongoDB Compass interface. The left sidebar displays the database structure with collections: users, carts, loginusers, products, usercarts, and users. The main panel shows the MongoDB shell with the following commands and output:

```
> use shoppyGlobeBackend
switched to db shoppyGlobeBackend
> db.products.insertMany([
  {
    name: "Wireless Headphones",
    price: 99.99,
    description: "High-quality noise-canceling wireless headphones.",
    stockQty: 50
  },
  {
    name: "Gaming Mouse",
    price: 49.99,
    description: "Ergonomic gaming mouse with customizable buttons.",
    stockQty: 30
  },
  {
    name: "Mechanical Keyboard",
    price: 79.99,
    description: "RGB backlit mechanical keyboard with blue switches.",
    stockQty: 25
  },
  {
    name: "Smartphone",
    price: 699.99,
    description: "Latest model with an advanced camera system and fast processor.",
    stockQty: 20
  }
])
```



The screenshot shows the MongoDB Compass interface after the insertion command. The main panel displays the output of the insertMany operation:

```
> use shoppyGlobeBackend
switched to db shoppyGlobeBackend
> db.products.insertMany([
  {
    name: "Wireless Charger",
    price: 29.99,
    description: "Fast wireless charging pad for smartphones.",
    stockQty: 60
  },
  {
    name: "4K Monitor",
    price: 349.99,
    description: "27-inch 4K UHD monitor with HDR support.",
    stockQty: 10
  }
]);
acknowledged: true,
insertedIds: [
  '679b78df88fb67d9e5fc2b41',
  '679b78df88fb67d9e5fc2b42',
  '679b78df88fb67d9e5fc2b43',
  '679b78df88fb67d9e5fc2b44',
  '679b78df88fb67d9e5fc2b45',
  '679b78df88fb67d9e5fc2b46',
  '679b78df88fb67d9e5fc2b47',
  '679b78df88fb67d9e5fc2b48',
  '679b78df88fb67d9e5fc2b49',
  '679b78df88fb67d9e5fc2b4a'
]
```

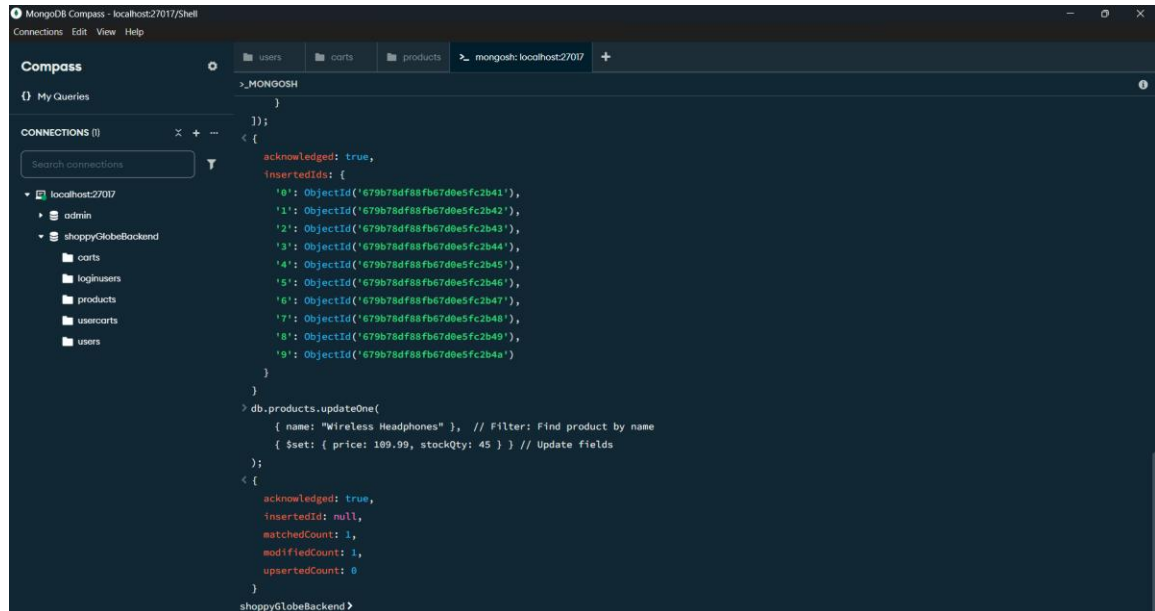
Updating products:

Command : `db.products.updateOne(`

`{ name: "Wireless Headphones" }, // Filter: Find product by name`

`{ $set: { price: 109.99, stockQty: 45 } } // Update fields`

`);`



The screenshot shows the MongoDB Compass interface. The left sidebar displays the database structure with collections: users, carts, products, loginusers, usercarts, and users. The main panel shows the MongoDB Shell with the following commands and results:

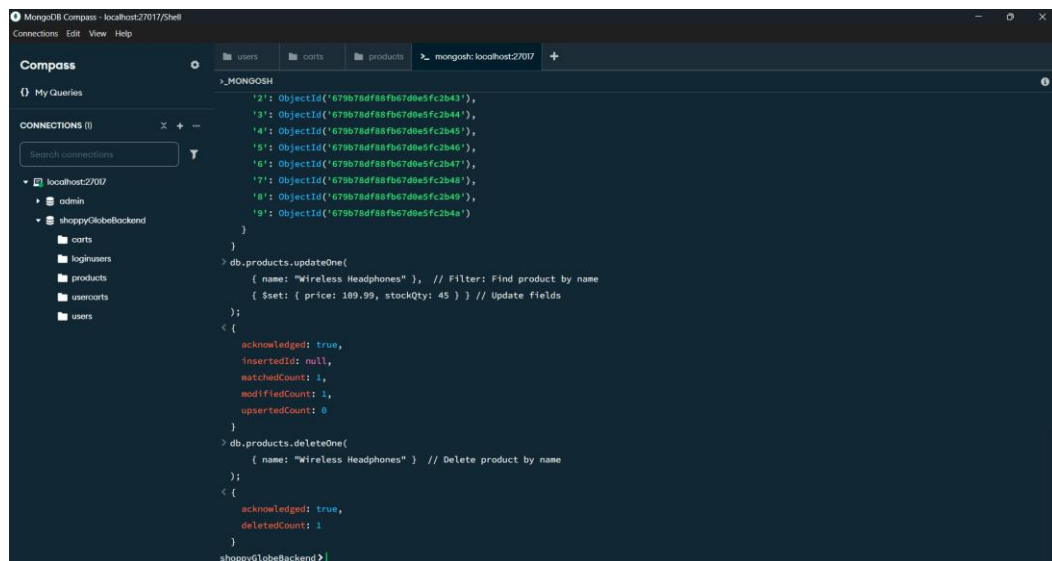
```
> _MONGOOSH
>
> db.products.updateOne(
  { name: "Wireless Headphones" }, // Filter: Find product by name
  { $set: { price: 109.99, stockQty: 45 } } // Update fields
);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('679b78df88fb67d0e5fc2b41'),
    '1': ObjectId('679b78df88fb67d0e5fc2b42'),
    '2': ObjectId('679b78df88fb67d0e5fc2b43'),
    '3': ObjectId('679b78df88fb67d0e5fc2b44'),
    '4': ObjectId('679b78df88fb67d0e5fc2b45'),
    '5': ObjectId('679b78df88fb67d0e5fc2b46'),
    '6': ObjectId('679b78df88fb67d0e5fc2b47'),
    '7': ObjectId('679b78df88fb67d0e5fc2b48'),
    '8': ObjectId('679b78df88fb67d0e5fc2b49'),
    '9': ObjectId('679b78df88fb67d0e5fc2b4a')
  }
}
```

Deleting Item from product:

Command: `db.products.deleteOne(`

`{ name: "Wireless Headphones" } // Delete product by name`

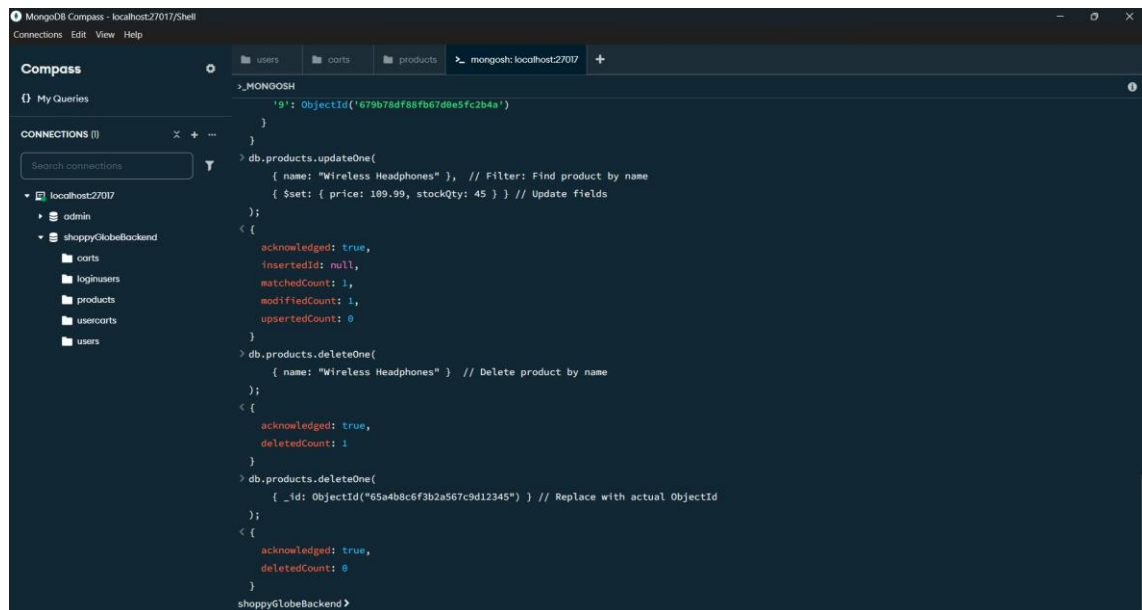
`);`



The screenshot shows the MongoDB Compass interface. The left sidebar displays the database structure with collections: users, carts, products, loginusers, usercarts, and users. The main panel shows the MongoDB Shell with the following commands and results:

```
> _MONGOOSH
>
> db.products.deleteOne(
  { name: "Wireless Headphones" } // Delete product by name
);
{
  acknowledged: true,
  deletedCount: 1
}
```

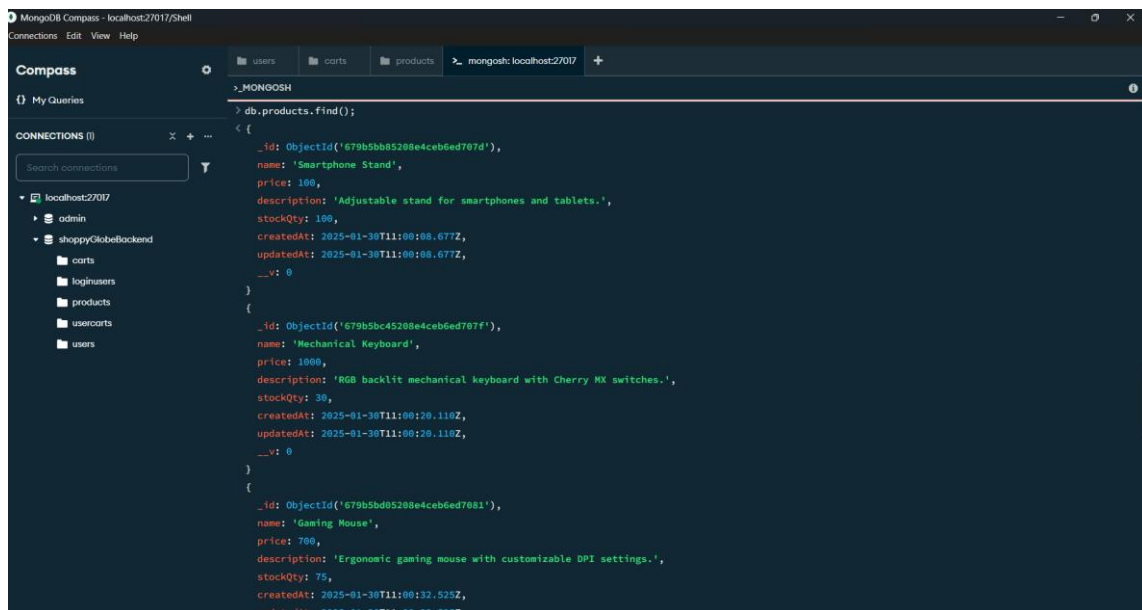
Note: for unique identification use id.



The screenshot shows the MongoDB Compass interface with a shell session open. The left sidebar shows the database structure with collections: admin, cortts, loginusers, products, userscarts, and users. The main panel displays the following commands and their results:

```
>_MONGOSH
{ 'id': ObjectId('679b78d788fb67d9e5fc2b4a')
}
> db.products.updateOne(
  { name: "Wireless Headphones" }, // Filter: Find product by name
  { $set: { price: 189.99, stockQty: 45 } } // Update fields
);
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.products.deleteOne(
  { name: "Wireless Headphones" } // Delete product by name
);
< {
  acknowledged: true,
  deletedCount: 1
}
> db.products.deleteOne(
  { _id: ObjectId("65a4b8c6f3b2a567c9d12345") } // Replace with actual ObjectId
);
< {
  acknowledged: true,
  deletedCount: 0
}
shappyGlobeBackend>
```

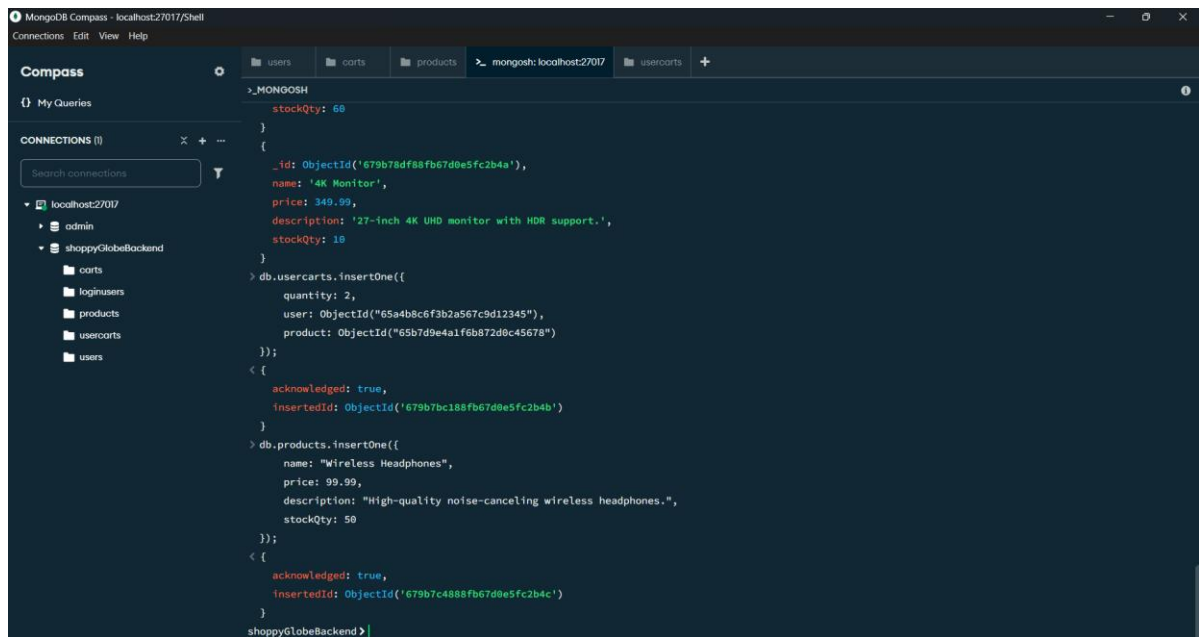
Read the data from products collection: Use `db.products.find()` → for all products.



The screenshot shows the MongoDB Compass interface with a shell session open. The left sidebar shows the database structure with collections: admin, cortts, loginusers, products, userscarts, and users. The main panel displays the results of the `db.products.find()` query:

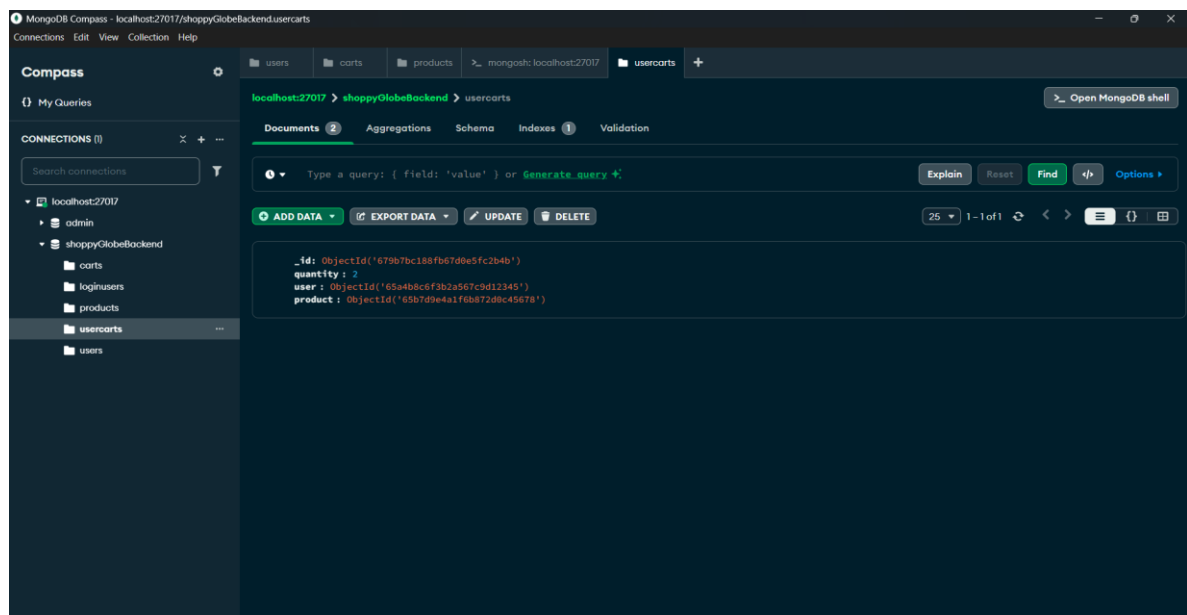
```
> db.products.find();
< [
  {
    _id: ObjectId('679b5bb85288e4ceb6ed707d'),
    name: 'Smartphone Stand',
    price: 100,
    description: 'Adjustable stand for smartphones and tablets.',
    stockQty: 100,
    createdAt: 2025-01-30T11:00:08.677Z,
    updatedAt: 2025-01-30T11:00:08.677Z,
    __v: 0
  },
  {
    _id: ObjectId('679b5bc45288e4ceb6ed707f'),
    name: 'Mechanical Keyboard',
    price: 1000,
    description: 'RGB backlit mechanical keyboard with Cherry MX switches.',
    stockQty: 30,
    createdAt: 2025-01-30T11:00:20.110Z,
    updatedAt: 2025-01-30T11:00:20.110Z,
    __v: 0
  },
  {
    _id: ObjectId('679b5bd85288e4ceb6ed7081'),
    name: 'Gaming Mouse',
    price: 700,
    description: 'Ergonomic gaming mouse with customizable DPI settings.',
    stockQty: 75,
    createdAt: 2025-01-30T11:00:32.525Z,
    updatedAt: 2025-01-30T11:00:32.525Z
  }
]
```

Adding Item to Cart :



The screenshot shows the MongoDB Compass interface with the shell open. The left sidebar shows the database structure with 'shoppyGlobeBackend' expanded, showing collections 'carts', 'loginusers', 'products', 'usercarts', and 'users'. The shell window contains the following commands and their outputs:

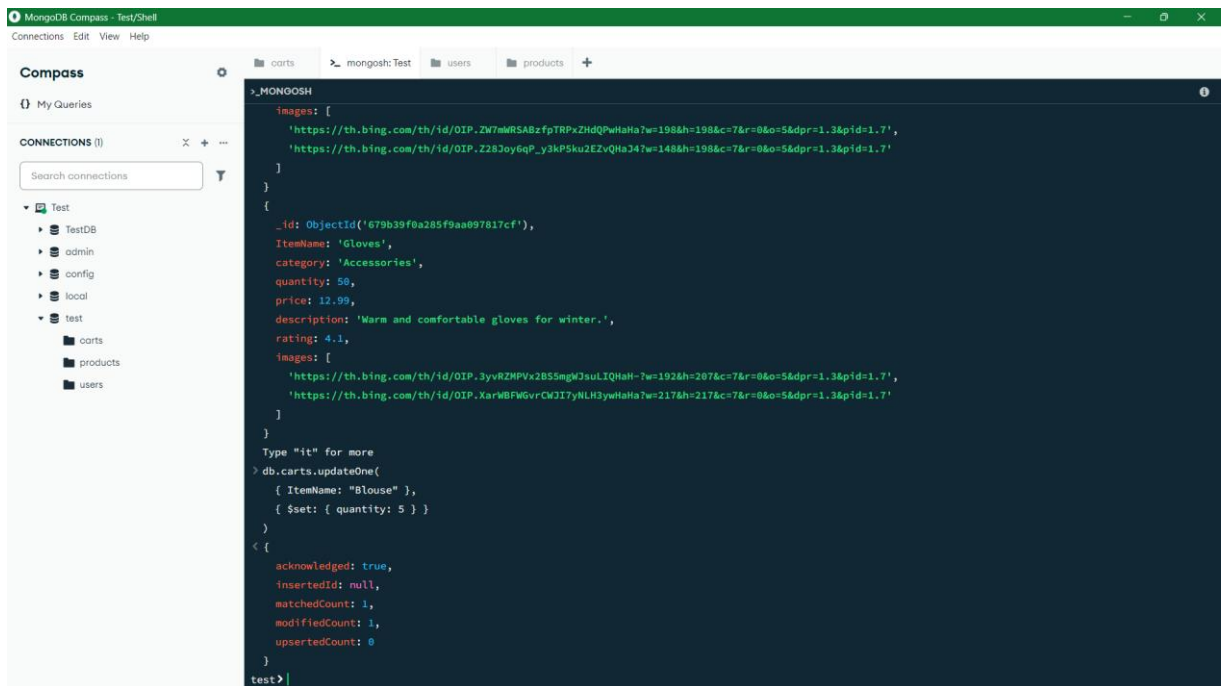
```
>_MONGOOSH
{
  stockQty: 60
}
{
  _id: ObjectId('679b78df88fb67d0e5fc2b4a'),
  name: '4K Monitor',
  price: 349.99,
  description: '27-inch 4K UHD monitor with HDR support.',
  stockQty: 10
}
> db.usercarts.insertOne({
  quantity: 2,
  user: ObjectId("65a4b8c6f3b2a567c9d12345"),
  product: ObjectId("65b7d9e4a1f6b872d8c45678")
});
< {
  acknowledged: true,
  insertedId: ObjectId('679b7bc188fb67d0e5fc2b4b')
}
> db.products.insertOne({
  name: "Wireless Headphones",
  price: 99.99,
  description: "High-quality noise-canceling wireless headphones.",
  stockQty: 50
});
< {
  acknowledged: true,
  insertedId: ObjectId('679b7c488fb67d0e5fc2b4c')
}
shoppyGlobeBackend >
```



The screenshot shows the MongoDB Compass interface with the 'Documents' tab selected for the 'usercarts' collection. The left sidebar shows the database structure with 'shoppyGlobeBackend' expanded, showing collections 'carts', 'loginusers', 'products', 'usercarts', and 'users'. The 'Documents' tab shows a single document with the following fields:

```
{
  _id: ObjectId('679b7bc188fb67d0e5fc2b4b')
  quantity: 2
  user: ObjectId('65a4b8c6f3b2a567c9d12345')
  product: ObjectId('65b7d9e4a1f6b872d8c45678')
}
```

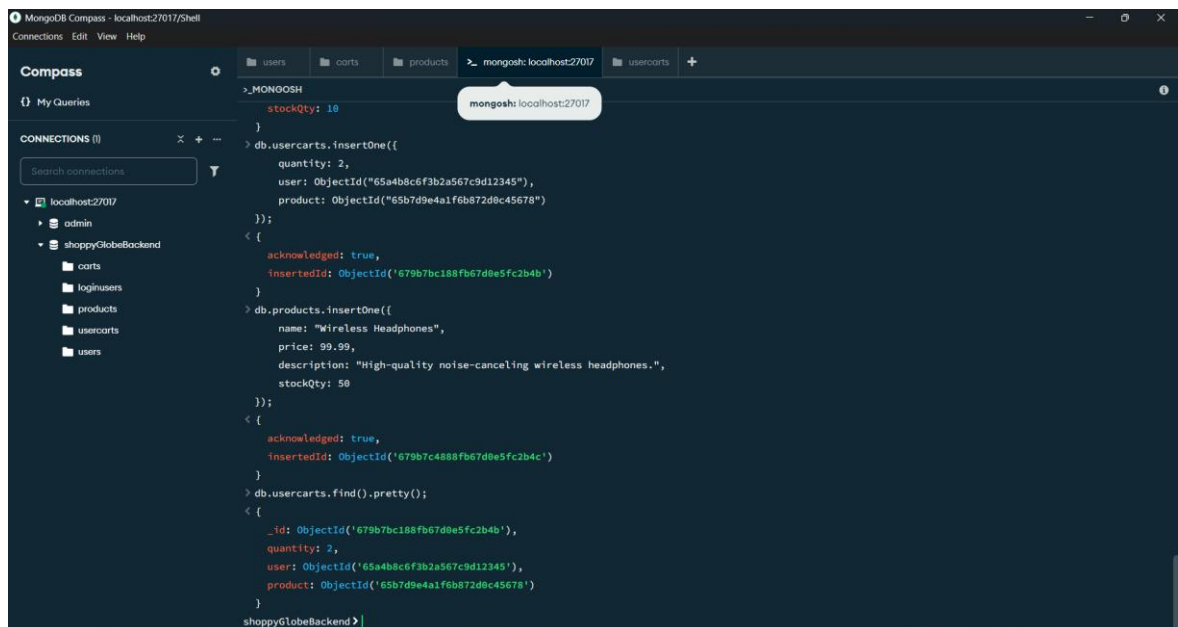
Update cart:



The screenshot shows the MongoDB Compass interface. On the left, the 'Test' database is selected, and the 'carts' collection is visible. The main panel displays a MongoDB shell session with the following commands and output:

```
> MONOGOSH
{
  images: [
    'https://th.bing.com/th/id/OIP.ZW7mWRSABzfpTRPxZhdQpWHaHa7w=198&h=198&c=7&r=0&o=5&dpr=1.3&pid=1.7',
    'https://th.bing.com/th/id/OIP.Z28J0y6qP_y3kP5ku2EZvQHa347w=148&h=198&c=7&r=0&o=5&dpr=1.3&pid=1.7'
  ]
}
{
  _id: ObjectId('679b39f0a285f9aa097617cf'),
  itemName: 'Gloves',
  category: 'Accessories',
  quantity: 50,
  price: 12.99,
  description: 'Warm and comfortable gloves for winter.',
  rating: 4.1,
  images: [
    'https://th.bing.com/th/id/OIP.3yVRZHPVx2B5mgW3auLQHaH-7w=192&h=207&c=7&r=0&o=5&dpr=1.3&pid=1.7',
    'https://th.bing.com/th/id/OIP.XarWBFW6vrcWJITyNLH3yWHaHa7w=217&h=217&c=7&r=0&o=5&dpr=1.3&pid=1.7'
  ]
}
Type "it" for more
> db.carts.updateOne(
  { itemName: "Blouse" },
  { $set: { quantity: 5 } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

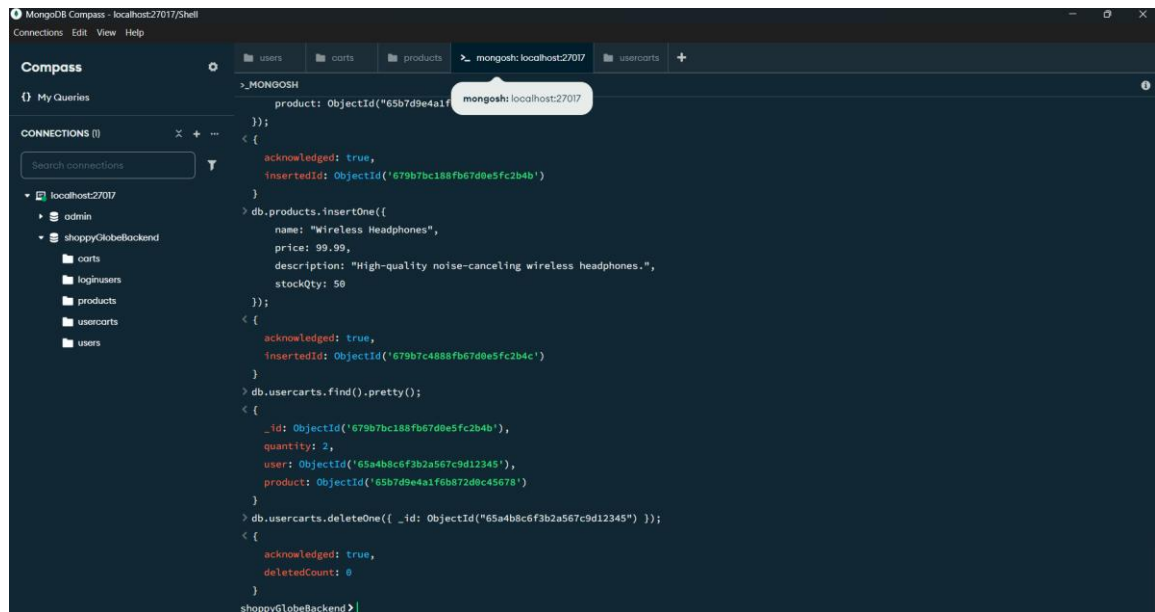
Read items from Cart:



The screenshot shows the MongoDB Compass interface. On the left, the 'localhost:27017' database is selected, and the 'shoppyGlobeBackend' collection is visible. The main panel displays a MongoDB shell session with the following commands and output:

```
> MONOGOSH
stockQty: 10
}
> db.usercarts.insertOne({
  quantity: 2,
  user: ObjectId("65a4b8c6f3b2a567c9d12345"),
  product: ObjectId("65b7d9e4a1f6b872d8c45678")
});
{
  acknowledged: true,
  insertedId: ObjectId('679b7bc188fb67d8e5fc2b4b')
}
> db.products.insertOne({
  name: "Wireless Headphones",
  price: 99.99,
  description: "High-quality noise-canceling wireless headphones.",
  stockQty: 50
});
{
  acknowledged: true,
  insertedId: ObjectId('679b7c488fb67d8e5fc2b4c')
}
> db.usercarts.find().pretty();
{
  _id: ObjectId('679b7bc188fb67d8e5fc2b4b'),
  quantity: 2,
  user: ObjectId('65a4b8c6f3b2a567c9d12345'),
  product: ObjectId('65b7d9e4a1f6b872d8c45678')
}
```

Delete item from cart:



```
MongoDB Compass - localhost27017/Shell
Connections Edit View Help

Compass
My Queries
CONNECTIONS (1)
  localhost27017
    admin
    shoppYGlobeBackend
      carts
      loginusers
      products
      usercarts
      users

>_MONGOSH
product: ObjectId("65b7d9e4a1f6b872d0c45678")
});
< {
  acknowledged: true,
  insertedId: ObjectId('679b7bc188fb67d0e5fc2b4b')
}
> db.products.insertOne({
  name: "Wireless Headphones",
  price: 99.99,
  description: "High-quality noise-canceling wireless headphones.",
  stockQty: 50
});
< {
  acknowledged: true,
  insertedId: ObjectId('679b7c4888fb67d0e5fc2b4c')
}
> db.usercarts.find().pretty();
< {
  _id: ObjectId('679b7bc188fb67d0e5fc2b4b'),
  quantity: 2,
  user: ObjectId('65a4b8c6f3b2a567c9d12345'),
  product: ObjectId('65b7d9e4a1f6b872d0c45678')
}
> db.usercarts.deleteOne({ _id: ObjectId("65a4b8c6f3b2a567c9d12345") });
< {
  acknowledged: true,
  deletedCount: 1
}
shoppYGlobeBackend>
```