# eCommerce Database Schema

This document provides a detailed explanation of the collections used in the eCommerce database, including their structure and relationships.

## 1. User Collection

The 'users' collection stores details of customers and administrators using the eCommerce platform. It includes authentication details, roles, and personal information.

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| --- | --- | --- |
| Field | Type | Description |
| \_id | ObjectId | Unique identifier for the user. |
| name | String | Full name of the user. |
| email | String | Email address, used for login and communication. |
| password | String | Hashed password for authentication. |
| role | String | User role (e.g., 'admin', 'customer'). |
| createdAt | Date | Timestamp when the account was created. |
| updatedAt | Date | Timestamp when the account was last updated. |

## 2. Products Collection

The 'products' collection contains details about the items available for purchase on the platform.

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| --- | --- | --- |
| Field | Type | Description |
| \_id | ObjectId | Unique identifier for the product. |
| name | String | Product name. |
| description | String | Detailed description of the product. |
| price | Number | Price of the product. |
| category | String | Category of the product. |
| stock | Number | Number of items available in stock. |
| createdAt | Date | Timestamp when the product was added. |
| updatedAt | Date | Timestamp when the product details were last updated. |

## 3. Orders Collection

The 'orders' collection stores order details including purchased items, customer information, and order status.

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| --- | --- | --- |
| Field | Type | Description |
| \_id | ObjectId | Unique identifier for the order. |
| userId | ObjectId | Reference to the user who placed the order. |
| products | Array | List of product IDs and quantities. |
| totalAmount | Number | Total amount of the order. |
| status | String | Order status (e.g., 'pending', 'shipped', 'delivered'). |
| createdAt | Date | Timestamp when the order was placed. |
| updatedAt | Date | Timestamp when the order status was updated. |