***Database Schema Design***

**🔹 Users Collection**

{

"\_id": "ObjectId",

"name": "John Doe",

"email": "john@example.com",

"password": "hashed\_password",

"role": "customer", // ["customer", "admin", "seller"]

"address": {

"street": "123 Main St",

"city": "Dhaka",

"zip": "1200"

},

"createdAt": "ISODate",

"updatedAt": "ISODate"

}

**🔹 Products Collection**

{

"\_id": "ObjectId",

"name": "Gaming Laptop",

"category": "Laptop",

"brand": "Asus",

"price": 1200.99,

"stock": 10,

"images": ["image1.jpg", "image2.jpg"],

"description": "A high-performance gaming laptop",

"ratings": 4.5,

"reviews": [

{

"userId": "ObjectId",

"comment": "Great laptop!",

"rating": 5

}

],

"createdAt": "ISODate",

"updatedAt": "ISODate"

}

**🔹 Orders Collection**

{

"\_id": "ObjectId",

"userId": "ObjectId",

"items": [

{

"productId": "ObjectId",

"quantity": 1,

"price": 1200.99

}

],

"totalAmount": 1200.99,

"paymentStatus": "paid", // ["pending", "paid", "failed"]

"orderStatus": "processing", // ["pending", "processing", "shipped", "delivered"]

"createdAt": "ISODate",

"updatedAt": "ISODate"

}

**🔹 Payments Collection**

{

"\_id": "ObjectId",

"userId": "ObjectId",

"orderId": "ObjectId",

"paymentMethod": "Stripe",

"transactionId": "TRX12345",

"amount": 1200.99,

"status": "successful", // ["pending", "successful", "failed"]

"createdAt": "ISODate"

}