**Postman API Endpoints for Ecommerce Application**

**Base URL**

http://localhost:8000

**1. Authentication & User Management**

**Register User**

* **Method**: POST
* **URL**: http://localhost:8000/register
* **Headers**:
* Content-Type: application/json
* **Body** (JSON):
* { "username": "testuser", "email": "test@example.com", "password": "password123"}

**Login User**

* **Method**: POST
* **URL**: http://localhost:8000/token
* **Headers**:
* Content-Type: application/x-www-form-urlencoded
* **Body** (form-data):
* username: testuserpassword: password123
* **Response**: Returns access token for authentication

**Get Current User Profile**

* **Method**: GET
* **URL**: http://localhost:8000/users/me
* **Headers**:
* Authorization: Bearer YOUR\_ACCESS\_TOKEN

**2. Product Management**

**Get All Products**

* **Method**: GET
* **URL**: http://localhost:8000/products/

**Get Single Product**

* **Method**: GET
* **URL**: http://localhost:8000/products/{product\_id}
* **Example**: http://localhost:8000/products/1

**Create Product (Admin)**

* **Method**: POST
* **URL**: http://localhost:8000/products/
* **Headers**:
* Content-Type: application/jsonAuthorization: Bearer YOUR\_ACCESS\_TOKEN
* **Body** (JSON):
* { "name": "iPhone 15", "description": "Latest iPhone model", "price": 999.99, "stock\_quantity": 50, "category": "Electronics"}

**Update Product**

* **Method**: PUT
* **URL**: http://localhost:8000/products/{product\_id}
* **Headers**:
* Content-Type: application/jsonAuthorization: Bearer YOUR\_ACCESS\_TOKEN
* **Body** (JSON):
* { "name": "iPhone 15 Pro", "description": "Updated iPhone model", "price": 1099.99, "stock\_quantity": 25, "category": "Electronics"}

**Delete Product**

* **Method**: DELETE
* **URL**: http://localhost:8000/products/{product\_id}
* **Headers**:
* Authorization: Bearer YOUR\_ACCESS\_TOKEN

**3. Cart Management**

**Get User Cart**

* **Method**: GET
* **URL**: http://localhost:8000/cart/
* **Headers**:
* Authorization: Bearer YOUR\_ACCESS\_TOKEN

**Add Item to Cart**

* **Method**: POST
* **URL**: http://localhost:8000/cart/items
* **Headers**:
* Content-Type: application/jsonAuthorization: Bearer YOUR\_ACCESS\_TOKEN
* **Body** (JSON):
* { "product\_id": 1, "quantity": 2}

**Update Cart Item**

* **Method**: PUT
* **URL**: http://localhost:8000/cart/items/{item\_id}
* **Headers**:
* Content-Type: application/jsonAuthorization: Bearer YOUR\_ACCESS\_TOKEN
* **Body** (JSON):
* { "quantity": 3}

**Remove Item from Cart**

* **Method**: DELETE
* **URL**: http://localhost:8000/cart/items/{item\_id}
* **Headers**:
* Authorization: Bearer YOUR\_ACCESS\_TOKEN

**Clear Cart**

* **Method**: DELETE
* **URL**: http://localhost:8000/cart/clear
* **Headers**:
* Authorization: Bearer YOUR\_ACCESS\_TOKEN

**4. Order Management**

**Create Order from Cart**

* **Method**: POST
* **URL**: http://localhost:8000/orders/
* **Headers**:
* Authorization: Bearer YOUR\_ACCESS\_TOKEN

**Get User Orders**

* **Method**: GET
* **URL**: http://localhost:8000/orders/
* **Headers**:
* Authorization: Bearer YOUR\_ACCESS\_TOKEN

**Get Order Details**

* **Method**: GET
* **URL**: http://localhost:8000/orders/{order\_id}
* **Headers**:
* Authorization: Bearer YOUR\_ACCESS\_TOKEN

**5. Health Checks**

**API Gateway Health**

* **Method**: GET
* **URL**: http://localhost:8000/health

**Root API Status**

* **Method**: GET
* **URL**: http://localhost:8000/

**Testing Workflow**

**1. Start with Authentication**

1. Register a new user
2. Login to get access token
3. Copy the access token for subsequent requests

**2. Product Testing**

1. Create some products (use the token)
2. Get all products
3. Get single product details

**3. Cart Testing**

1. Add items to cart
2. View cart contents
3. Update item quantities
4. Remove items

**4. Order Testing**

1. Add items to cart
2. Create order from cart
3. View order history
4. Get order details

**Important Notes**

* **Authentication**: Most endpoints require a Bearer token in the Authorization header
* **Token Format**: Bearer YOUR\_ACCESS\_TOKEN\_HERE
* **Content-Type**: Use application/json for JSON payloads
* **CORS**: Headers are configured to allow requests from any origin during development
* **Error Handling**: Check response status codes and error messages for debugging

**Sample Test Data**

**User Registration**

{

"username": "john\_doe",

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

"password": "securepassword123"

}

**Product Creation**

{

"name": "MacBook Pro",

"description": "High-performance laptop",

"price": 2499.99,

"stock\_quantity": 10,

"category": "Computers"

}

**Cart Item Addition**

{

"product\_id": 1,

"quantity": 1

}