**E-Commerce Application**

**Members**

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1. **User Authentication Module Registration**

Allow users to register with details such as username, password, email, and contact number. Login: Authenticate users based on username and password. Password Management: Enable users to reset their password if forgotten.

1. **Product Management Module Add Product**

Admins can add new products with details like name, description, price, category, and stock quantity. Edit Product: Admins can update product details. Delete Product: Admins can remove products from the catalog. View Products: Users can view the list of available products.

1. **Category Management Module Add Category**

Admins can create new product categories. Edit Category: Admins can update category details. Delete Category: Admins can remove categories. View Categories: Users can browse products by category.

1. **Shopping Cart Module Add to Cart**

Users can add products to their shopping cart. Remove from Cart: Users can remove products from their cart. View Cart: Users can view the contents of their cart. Update Cart: Users can change the quantity of products in their cart.

1. **Order Management Module Place Order**

Users can place an order for the products in their cart. Order History: Users can view their past orders. Order Details: Users can view details of a specific order.

1. **Payment Module Payment Processing**

Simulate payment processing (for simplicity, you can use a dummy payment system). Order Confirmation: Confirm orders after successful payment.

1. **User Profile Management Module View Profile**

Users can view their profile details. Edit Profile: Users can update their profile information. Delete Account: Users can delete their account.

1. **Admin Module User Management**

Admins can view, edit, and delete user accounts. View Sales Reports: Admins can view sales statistics and reports.

1. **Search Module Product Search**

Users can search for products by name or category. Filter Products: Users can filter products based on price range, category, and other attributes.

1. **Reviews and Ratings Module Add Review**

Users can add reviews and ratings for products. View Reviews: Users can view reviews and ratings for products. Additional Considerations Data Persistence: Decide on a method for storing data (e.g., text files, binary files, or a simple database). Error Handling: Implement robust error handling to manage invalid inputs and system errors. User Interface: Design a clear and intuitive console interface for users.