SOFTWARE RNGINEERING1 PROJECT (PHASE 1 COVER SHEET)

Project Name: ACE

Project Leader: Ahmed M. Salem

Team Information ***(typed not handwritten, except for the attendance signature)*****:**

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2	320220005	Adham Wessam Farouk		
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5	320220055	Mahmoud Nehad ElSherbiny		

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Functional Requirements	1.5		
Non-Functional Requirements	1.5		
System Architecture (Modules)	2		
Activity Diagram(s)	2		
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Class Diagram	1		
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Teaching -Assistant's Signature: _____

_____

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System Introduction:

Welcome to ACE, our E-Commerce Management System, an advanced platform designed to elevate your online shopping experience.

Our user-centric approach allows for easy registration, login, and profile management, providing a seamless journey from product discovery to checkout. Sellers benefit from a streamlined process to create and showcase their products, supported by efficient order management tools.

The system ensures transparency and engagement through a robust review and rating system, empowering users to share their insights. Sellers can monitor their performance with intuitive analytics features.

Administrators stand ready to manage user accounts and resolve issues promptly, while our secure accounting module ensures financial transactions are handled with precision. Behind the scenes, Warehouse/Logistics Management ensures smooth inventory operations.

Our commitment to performance, scalability, security, and user-friendly design ensures a reliable and adaptable platform. Our professional customer support team is available to assist with any inquiries.

Experience a holistic, secure, and efficient e-commerce journey with ACE!

Functional Requirements:

1. User Management:

- Users can register for an account.
- Users can log in and log out.
- Users can edit their profiles.
- Registered users can add products to their shopping cart.

2. Product Management:

- Sellers can create and manage product listings.
- Users can browse and search for products.
- Users can view detailed product information.
- Sellers can track sales and analytics.

3. Order Management:

- Users can view and manage their shopping cart.
- Users can complete the purchase process.
- Users can view their order history.
- Sellers can process orders.

4. Review and Rating:

- Users can leave reviews for products.
- Reviews and ratings are displayed on product pages.

5. Seller Management:

- Sellers can create and manage seller accounts.
- Sellers can log in to their accounts.
- Sellers can track sales and analytics.

6. Administrator:

- Administrators can log in.
- Administrators can manage user accounts.
- Administrators can monitor site analytics.
- Administrators can resolve disputes.

7. Accounting:

- Accountants can log in.
- Accountants can maintain financial records.
- Accountants can manage expenses.

8. Warehouse/Logistics Management:

- Warehouse/Logistics managers can log in.
- Managers can coordinate logistics.
- Managers can manage inventory.

9. Customer Support:

- Allow tracking and resolution of customer inquiries.

Non-functional Requirements:

1. Performance:

- The website should handle a large number of simultaneous users.
- Pages should load within a reasonable time frame.

2. Scalability:

- The system should be scalable to accommodate a growing number of products and users.

3. Security:

- User data and financial transactions should be secure.
- Secure authentication and authorization mechanisms should be implemented.

4. Reliability:

- The system should be reliable, with minimal downtime.
- Backup and recovery mechanisms should be in place.

5. Usability:

- The user interface should be intuitive and easy to navigate.
- Accessibility features should be considered.

6. Compatibility:

- The website should be compatible with various devices and browsers.

7. Maintainability:

- The codebase should be well-documented and modular.
- Updates and maintenance should be straightforward.

8. Legal and Compliance:

- The website should comply with relevant data protection and privacy laws.
- Terms of service and policies should be clearly communicated to users.

9. Integration:

- The system should integrate with third-party services, such as payment gateways and shipping providers.

10. Reporting and Analytics:

- The system should provide comprehensive reporting and analytics features for administrators and sellers.

System Architecture (Modules):

1. User Management Module:

- User Registration
- User Login/Logout
- Profile Editing

2. Product Management Module:

- Product Listing
- Product Search
- Product Details
- Analytics and Sales Tracking

3. Order Management Module:

- Shopping Cart Management
- Checkout Process
- Order History

4. Review and Rating Module:

- Product Reviews
- Rating System

5. Seller Management Module:

- Seller Account Creation
- Seller Login
- Seller Dashboard
- Sales and Analytics Tracking for Sellers

6. Administrator Module:

- Admin Login
- User Account Management
- Site Analytics Monitoring
- Dispute Resolution

7. Accounting Module:

- Accountant Login
- Financial Recordkeeping
- Expense Management
- Payment Processing

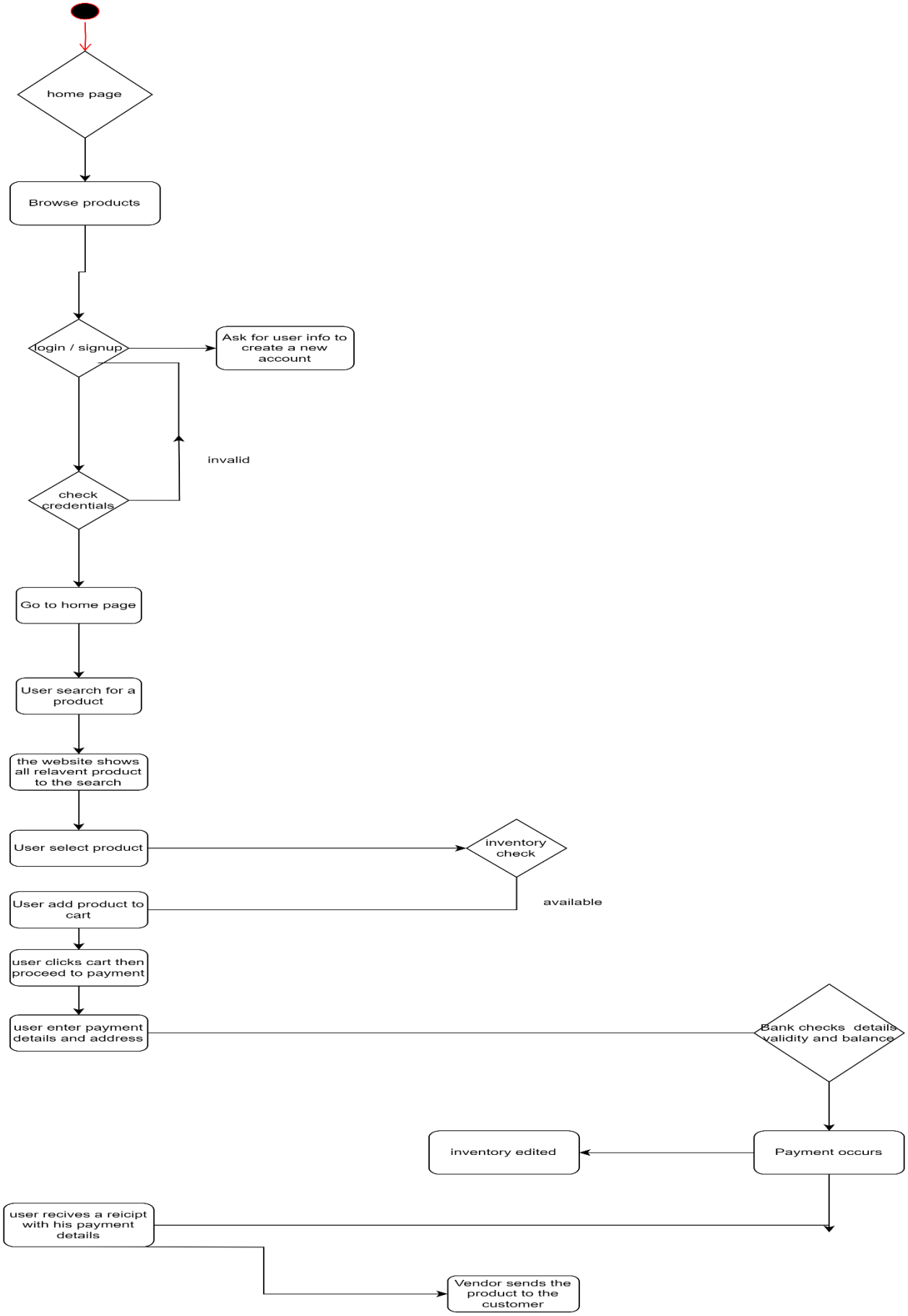
8. Warehouse/Logistics Management Module:

- Manager Login
- Logistics Coordination
- Inventory Management

9. Customer Support Module:

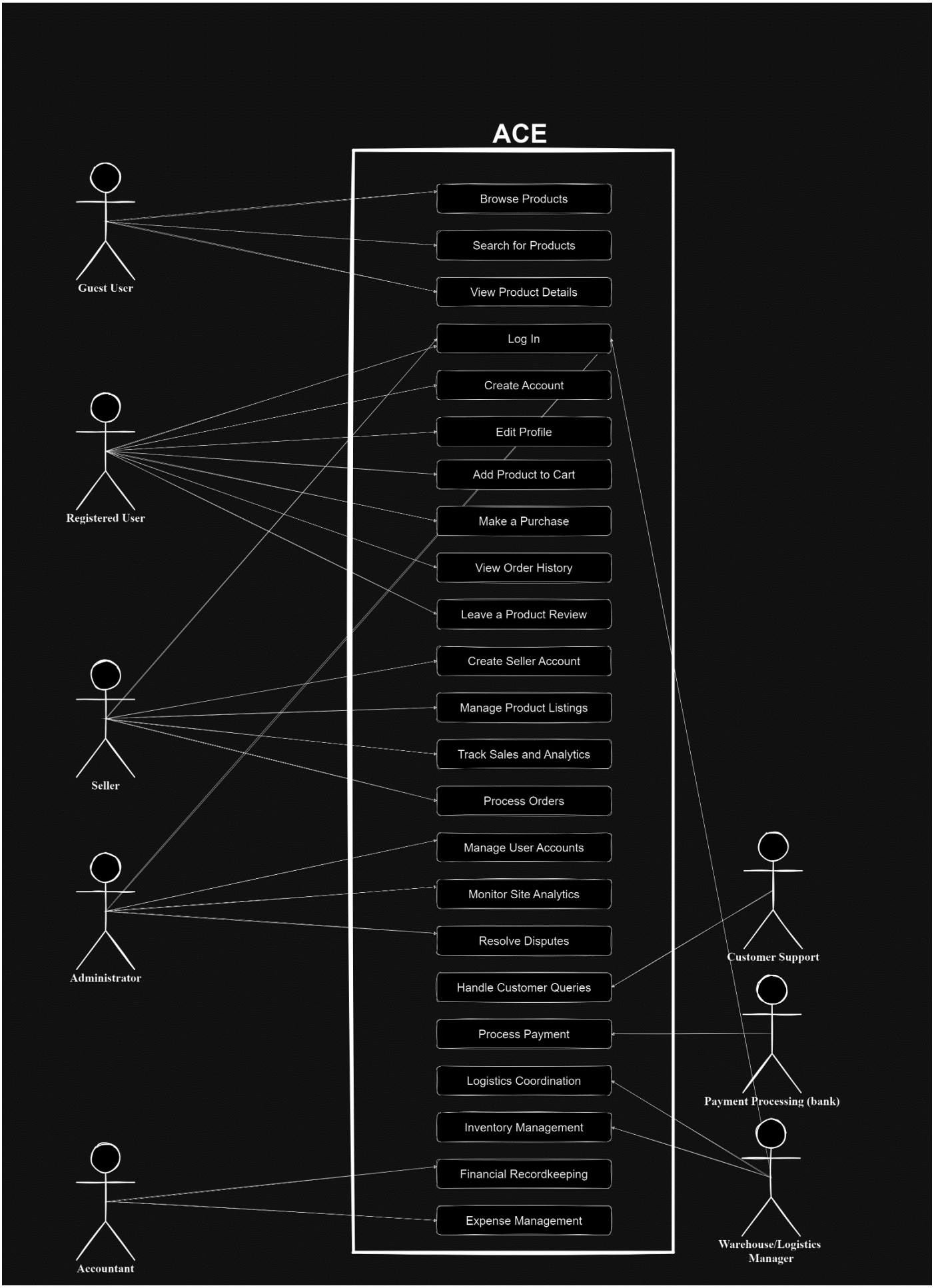
- Customer Inquiry Tracking
- Customer Support Resolution

ACTIVITY DIAGRAM 1:



ACTIVITY DIAGRAM 2:

USE CASE DIAGRAM:



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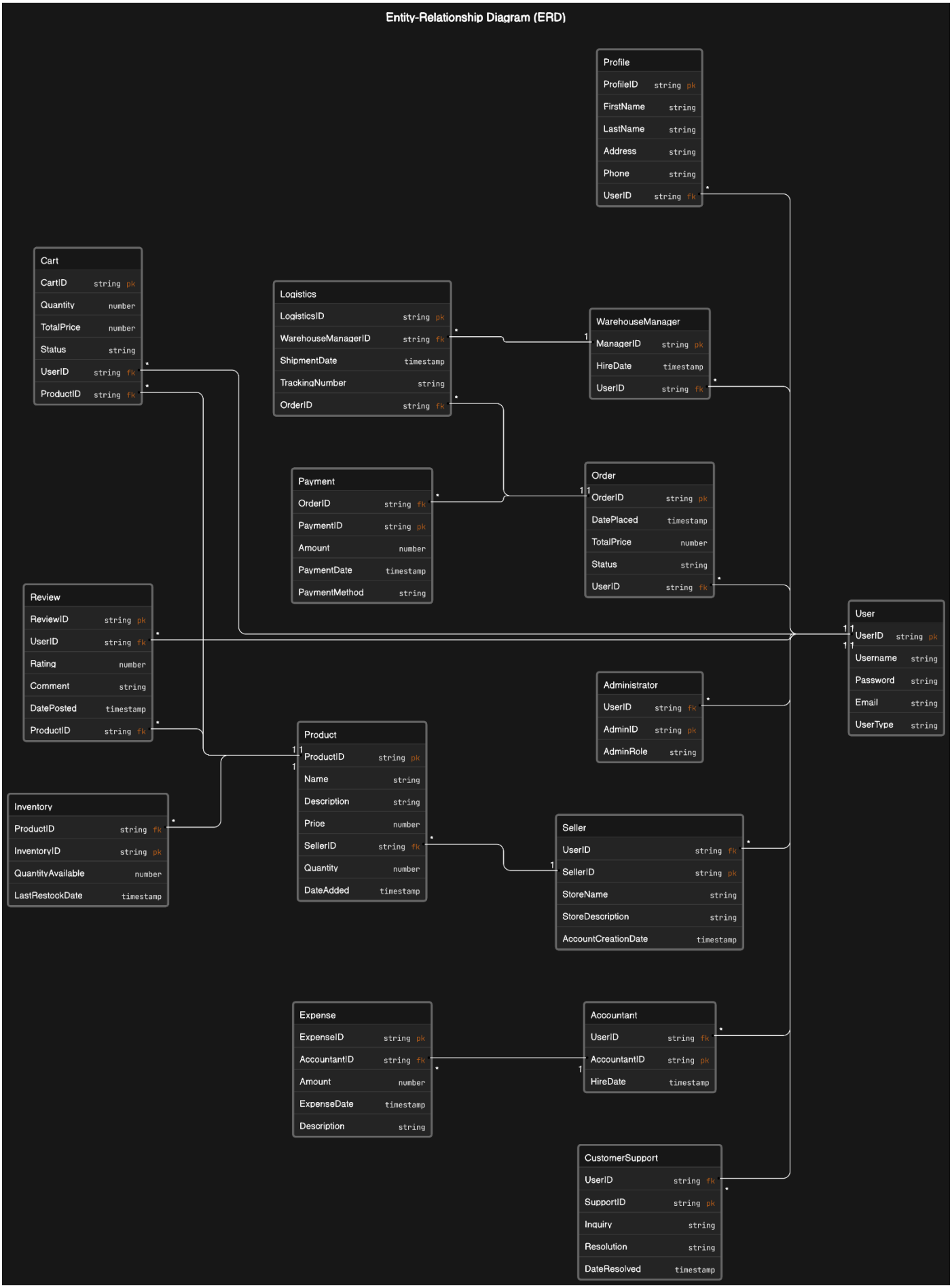
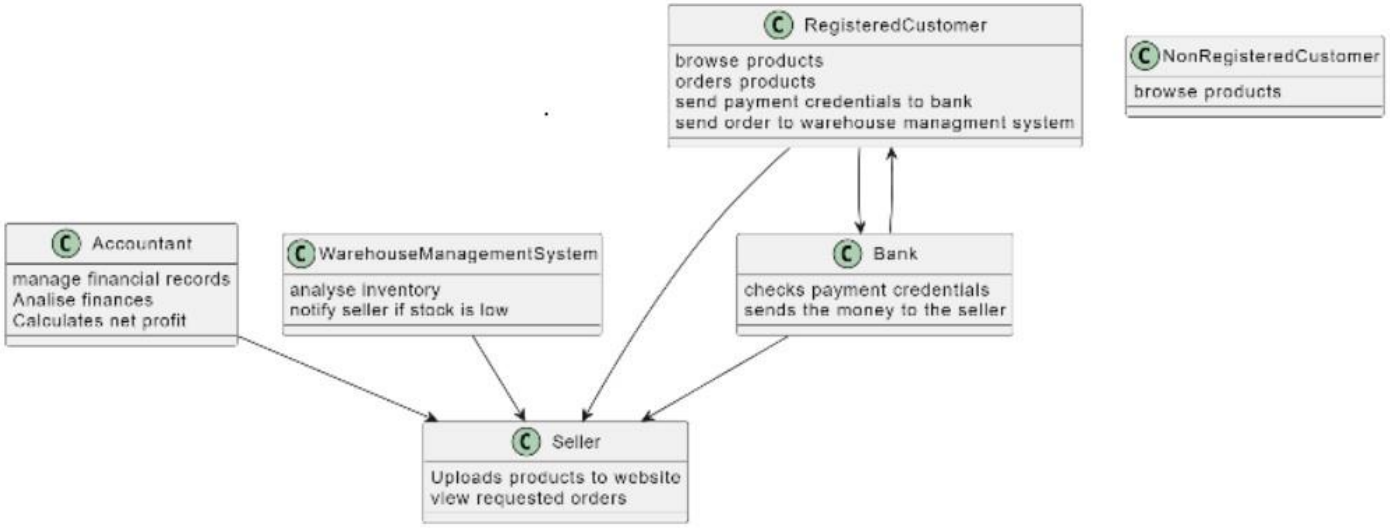
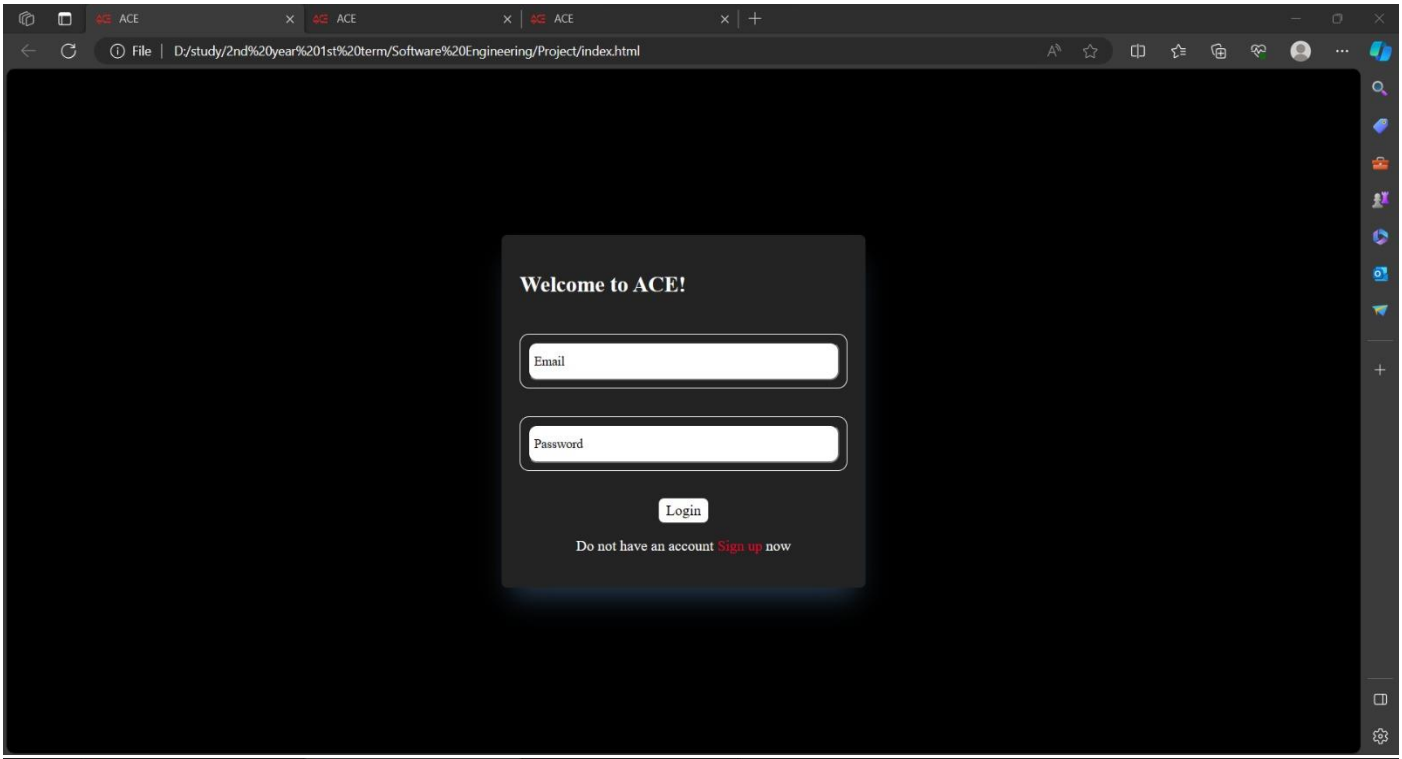
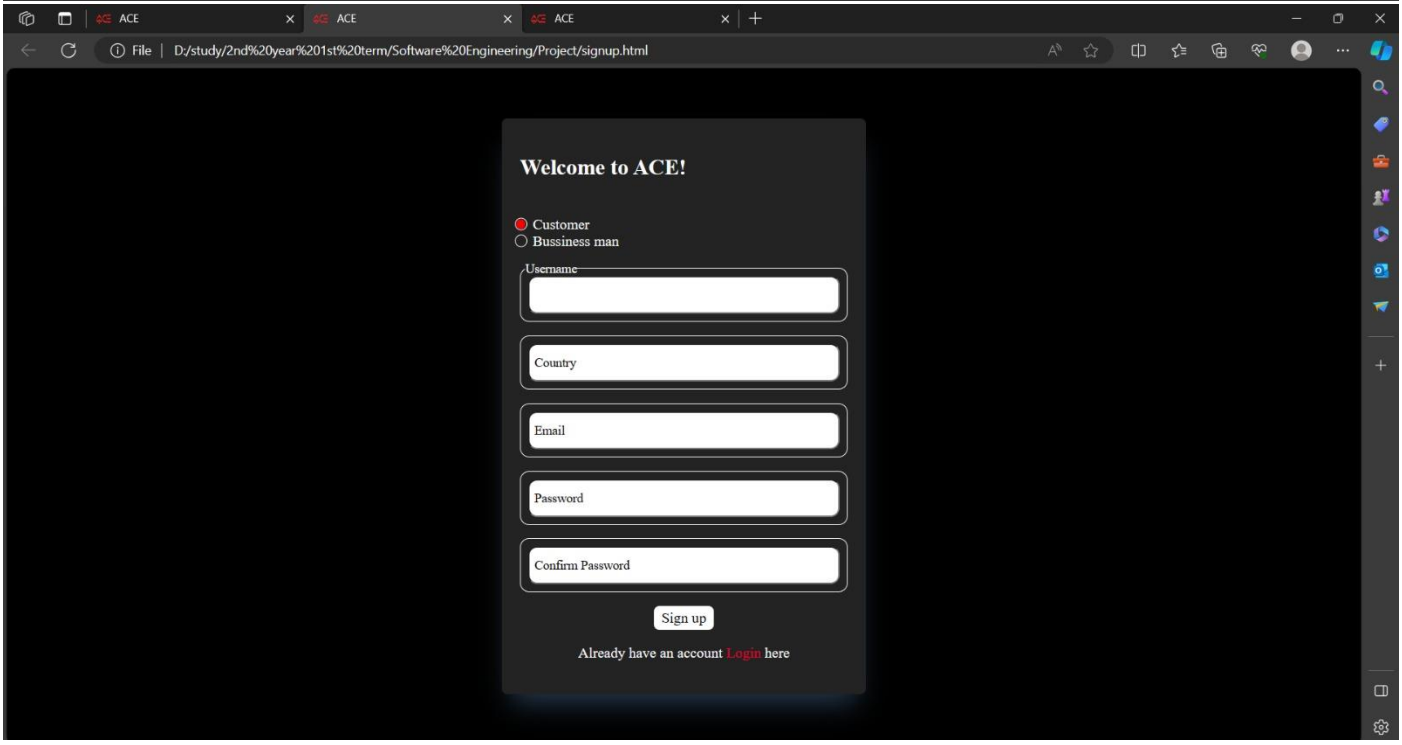


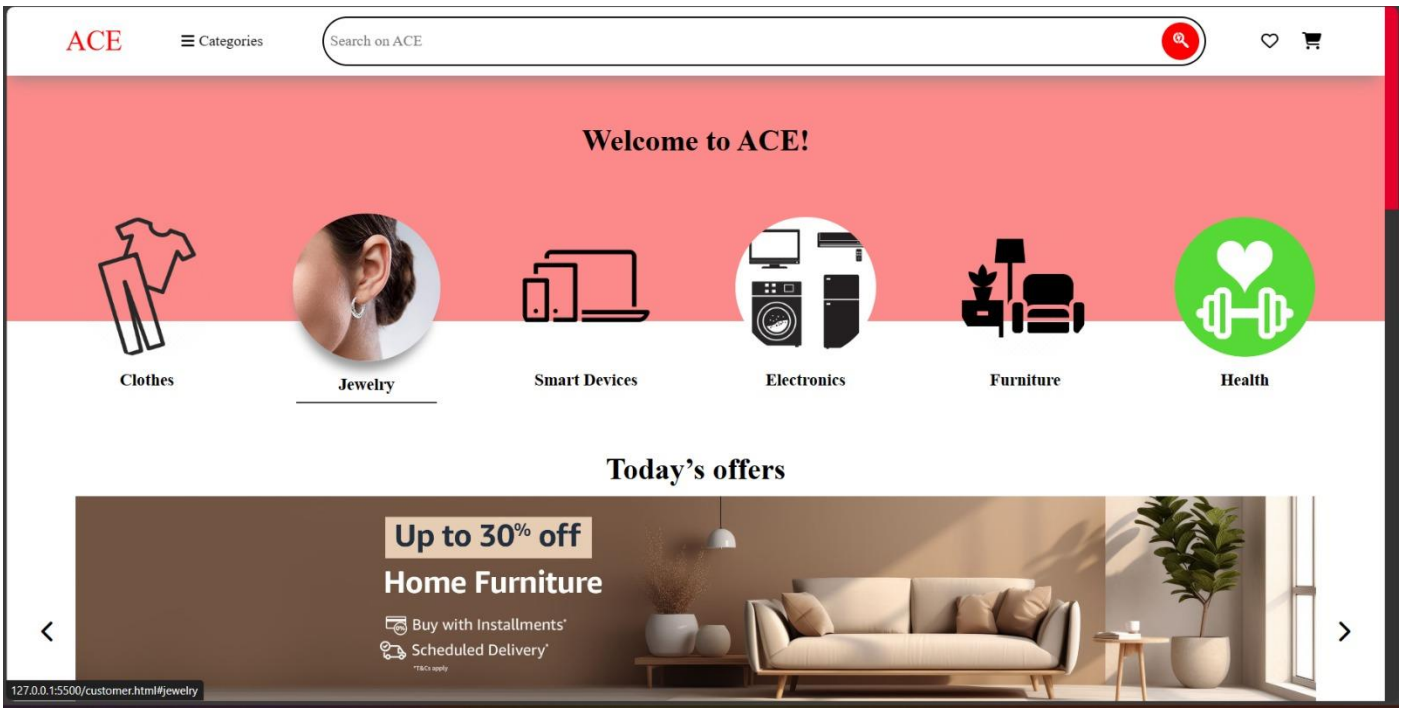
CLASS DIAGRAM:



SYSTEM UI SNAPSHOTS:



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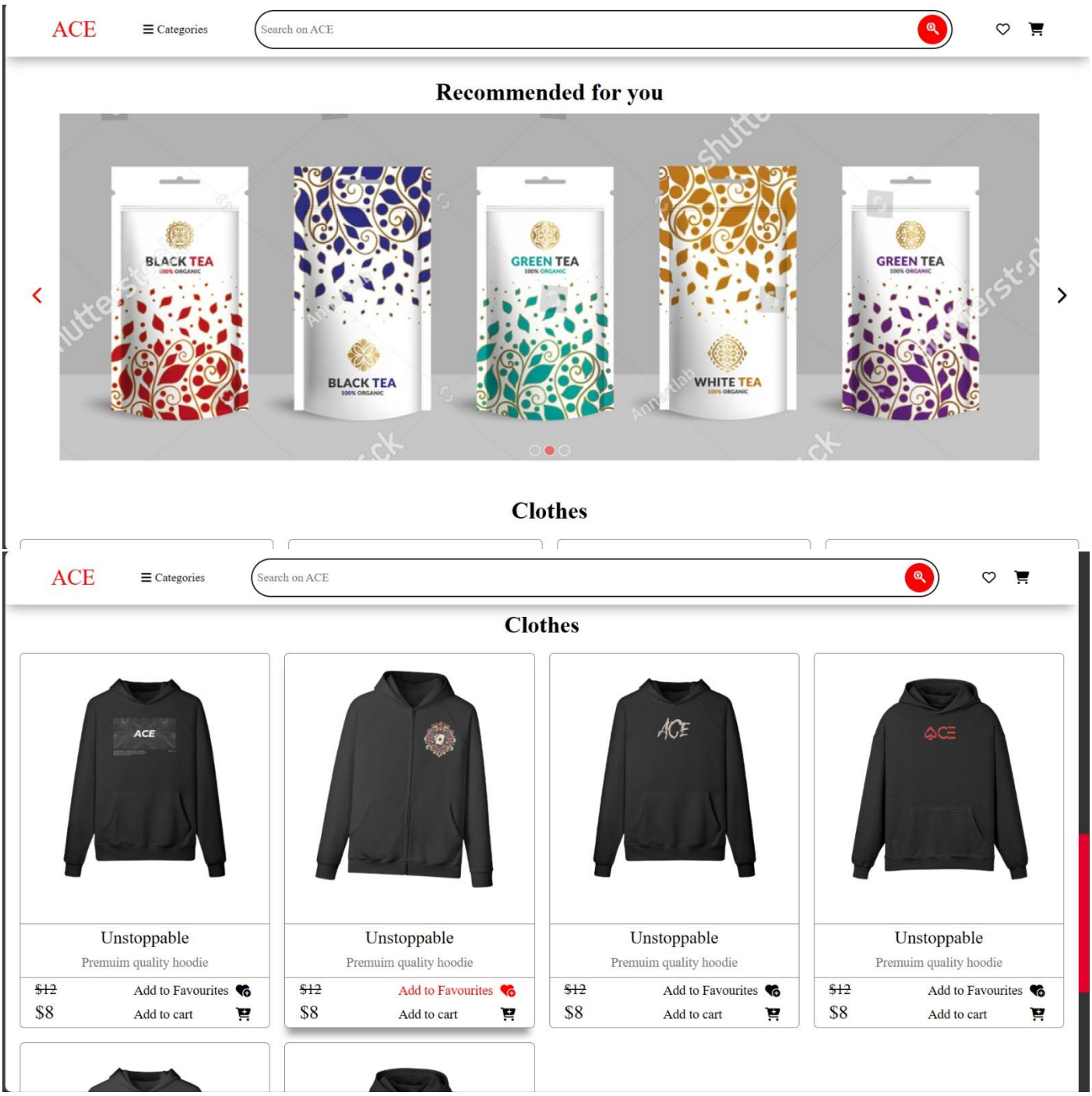
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