



**Online Shopping**

Case Study

**GROUP 11**

**Shopp-E**

**Abstract**

Application to be developed is an E-Commerce Web Application. The product will provide platform for several individuals and companies to sell their products. The application is intended to be small and resource efficient. Application will implement all of the CRUD operations on database with strict constriction to DRY principle. The goal of our application is to provide a quick and easy to use interface for all users. The system should be available to be used with the least number of variable factors that can affect it.

Online shopping application has 3 users:

1. Admin
2. Retailer
3. User

UI will be efficient and user-friendly with simple transitions and minimal fields in forms. User will be provided with a search bar to further ease the process of getting an eye on his need from the application. Also, breadcrumbs will be enabled on all navigations on an attempt to eliminate memory constraints and implementing forgiveness. Several features that’ll help the user to customize his/her window or view (example sort, filter) will be implemented. Screen-reader will be implemented for visually impaired users. The application will be totally responsive thereby making it mobile.

Application will be enhanced to ease the cumbersome process of shopping from one website and comparing on the other. Equipping compare will help the user to better decide on their choice. User can compare up to four products of a single category. The system will be available to all users but compare and checkout component will require user to signup/login. Signup and login will contain minimal fields and data fed in the form will be secure. The cart page, along with other pages will also be dynamic. The user will have the option to update quantity on the cart page i.e. before he proceeds to checkout. Admin panel will also be integrated, so that the admin can decide/update on products, their quantity, revised prices and all other provisions that’ll be needed by the companies that are using the platform to sell their products.

The product will be perennially exposed to enhancement. The goal of our system is not just to sell the product to the buyer, but also to make him aware of what he is buying. UI will be user-friendly, working will be efficient and data will be secure. The system will allow user to shop around with ease and also open up doors to many small retailers that would never be in business if they had to incur the high cost of owning a brick and mortar store.

**MODULES**

1. **Login**: The user can login using email and password. If the user fails to enter correct email and password, the Forgot Password option can be clicked which will allow the user to reset the password with OTP. The user can purchase a product, compare or add to wishlist only when he/she logins.
2. **Signup**: Users should enter their personal details like name, email id, address, mobile number. The user must choose a password for himself which will be used for future logins. The password will be encrypted before being fed in the DB. After successful registration, the user can login to the application.
3. **User**: The user will be provided with features like sort, filter, on the home page, to ease the search of the product. Sorting can be done either alphabetically on the basis of product name or according to the product price (Low to High and High to Low). Filtering can be done with respect to price or brand of the product.

The user can search for a product by entering a keyword from either of its name or description. While going through the products if the user reaches the end of the scroll bar, the page will be refreshed to display more products. The user can see the magnified image of the product if mouse pointer is hovered on the product image.

If the user likes a particular product but does not wish to buy it now, he/she can add it to the wishlist.

If a user is in a dilemma as to which product to choose, there is an add to compare option for each product wherein the user can select different products for comparison (maximum 4) from search result page, home page, product page or compare page itself. The user can also remove a product added to compare. A product can be added to cart if the user decides to purchase it. The user can update the quantity of the product using plus minus signs which will auto-update the price. The user can proceed to checkout when he decides to purchase product(s).

The User Profile will display wishlist and details of the user.

1. **Retailer**: A retailer can update(add/modify/delete) stock as and when he wishes. The retailer can view product information and total revenue generated. The retailer has privileges to decide about the pricing of the products.
2. **Admin:** Admin can view all products and retailers, add or remove a retailer, verify legitimacy of updates done by a retailer. All the updates done by retailers have to be approved by the admin.

Work Flow

1. Homepage: Any user can initially see the home page

CART

Search Bar

Top Products

Product Image Display

Login/SignUp

LOGO

Products

Compare

Categories

HELP

1. Login Page: Registered Users can Login to buy the products and add to wishlist.

HEADER

E-Mail Id

Password

FORGOT PASSWORD

LOGIN

New user? Register

FOOTER

FOOTER

Forgot Password Page:

HEADER

Enter New Password

Confirm New Password

Enter OTP Code:

FOOTER

FOOTER

1. Registration Page: New users can register themselves with basic details

HEADER

FOOTER

YOUR NAME

NAME:

MOBILE NO:

MOBILE NO

EMAIL ADDRESS

EMAIL ID:

PASSWORD

PASSWORD:

CONFIRM PASSWORD

CONFIRM PASSWORD

REGISTER

FOOTER

ALREADY HAVE AN ACCOUNT? SIGN IN.

1. Registered User’s Dashboard: Once user logs in, user can see the webpage along with the options to make the user profile, wish-list and options to change the password or to log out.

Product Image Display

CART

Search Bar

Top Products

Username

Products

Compare

LOGO

Categories

HELP

1. Category wise products display page: Once the user selects a particular category, user will be guided to the list of products available for the selected category along with filtering options like selecting a particular brand or price range, etc.

LOGO

Search Bar

Categories

Username

CART

Products

Compare

SORT:

PRODUCT 1

Name

Price

PRODUCT 2

Price

FILTER BY:

Brand names

Footer

1. Product description page: Contains various images of the product along with description, size, etc.

LOGO

Compare

Products

CART

Username

Categories

Search Bar

Description of product

Wishlist

Product Images

   



Add to cart

FOOTER

1. Compare Page: User can compare between different products.

Search Bar

Categories

Username

CART

Products

Compare

LOGO

Product Images

     





Product Descriptions



Footer

1. Cart Page: Cart page shows the selected products to be purchased and price details.

Search Bar

Categories

Username

CART

Products

Compare

LOGO

Price Details

- Quantity +

Price

Product Name

Product Image

Total Price

Product Image

Product Name

Price

- Quantity +

Place Order

Continue Shopping

Total

Footer

1. User Profile:

HEADER

User Profile

User Details

Values Displayed

My Orders

Change Password

FOOTER

1. Retailer’s Dashboard:

HEADER

FOOTER

Retailer’s Profile

Values Displayed

Retailer’s Details

Change Password

Delete Account

Add Product

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ADD PRODUCT

Entered Product Name

Product Name

Product Image

Product Description

Product Price

Entered Product Name

Entered Product Name

Entered Product Name

Submit

1. Admin’s Dashboard:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Retailer’s Id | Retailer’s Name | Edit Product | Notification To  Verify | Delete |
| 1 |  |  |  | x |
| 2 |  |  |  | x |
| 3 |  |  |  | x |
| 4 |  |  |  | x |

HEADER

Admin’ Profile

Add Retailer

FOOTER

ADD RETAILER

Retailer’s ID

Retailer’s Name

Retailer’s E-mail

Retailer’s Mobile No.

Submit

Entered Retailer’s ID

Entered Retailer’s Name

Entered Retailer’s E-mail

Entered Retailer’s Mobile No.