**Project file Structure**  
/ecommerce

│── index.html → Home / product listing

│── login.html → Login page

│── register.html → Registration page

│── admin.html → Admin dashboard

│── cart.html → Shopping cart

│── wishlist.html → Wishlist

│── orders.html → Customer order history

│── product.html → Product details page

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├── /css

│ ├── style.css

│ └── admin.css

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├── /js

│ ├── auth.js → Login, register, logout logic + validation

│ ├── products.js → Product rendering, CRUD for admin

│ ├── categories.js → Category CRUD for admin

│ ├── cart.js → Cart logic (add, remove, update)

│ ├── wishlist.js → Wishlist logic

│ ├── orders.js → Order placement + admin confirmation/rejection

│ ├── utils.js → Helper functions (validation, alerts, etc.)

│ ├── storage.js → LocalStorage/Firebase interaction

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├── /images

│ ├── products/ → Product images

│ └── categories/ → Category images

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└── README.md

## Project structure Feature Breakdown

We’ll handle features **page by page** and **role by role**.

**Auth (Both Admin & Customer)**

Register → Validation for empty fields, email format, password length.

Login → Match credentials with stored users.

Logout → Clears session.

Store user role (admin/customer) in LocalStorage session.

**Products**

**Admin** → CRUD (create, edit, delete, update products) with validation.

**Customer** → View, filter by category, search.

**Categories**

**Admin** → CRUD categories.

**Customer** → Filter products by category.

**Orders**

**Customer** → Place order → Goes into "pending".

**Admin** → Confirm or reject orders.

**Both** → Can view previous orders.

**Wishlist & Cart**

Wishlist: stored in LocalStorage.

Cart: add/remove/update quantity.

Checkout button → creates order.