**CST-PROJECT Documentation**

**1. Overview**

CST-PROJECT is a comprehensive web and backend system designed to manage users, products, and orders with a fully implemented role-based access control for Admin, Seller, and Customer roles. It provides:

* CRUD operations (Create, Read, Update, Delete) for all system entities.
* Responsive UI to ensure smooth usage across devices.
* Secure data handling with validations and structured storage.
* Dashboards for each role (Admin, Seller, Customer) with personalized views.
* Order management workflow from placing orders by customers, to processing by sellers, and monitoring by admin.
* Scalability in design to allow adding new modules and features in the future.
* User-friendly experience with clear navigation and real-time updates.

**2.Project Structure**

**TECHHORA/**

**├── index.html # Homepage**

**├── assets/**

**│ ├── css/**

**│ │ └── main.css # Main stylesheet**

**│ ├── js/**

**│ │ ├── main.js # Core functionality**

**│ │ ├── auth.js # Authentication system**

**│ │ ├── cart.js # Shopping cart logic**

**│ │ ├── catalog.js # Product catalog**

**│ │ ├── cart-page.js # Cart page functionality**

**│ │ ├── login.js # Login page logic**

**│ │ └── register.js # Registration logic**

**│ └── images/ # Product images**

**├── pages/**

**│ ├── catalog.html # Product catalog page**

**│ ├── cart.html # Shopping cart page**

**│ ├── login.html # Login page**

**│ ├── register.html # Registration page**

**│ ├── product.html # Individual product page**

**│ ├── checkout.html # Checkout process**

**│ ├── about.html # About page**

**│ ├── contact.html # Contact page**

**│ └── dashboard/ # Dashboard pages**

**│ ├── customer.html # Customer dashboard**

**│ ├── seller.html # Seller dashboard**

**│ └── admin.html # Admin panel**

**└── README.md # Project documentation**

**3. Pages Documentation**

**3.1 Home Page (index.html)**

**Overview:**  
Displays general information about the platform, highlighting key features and navigation to other pages.

**HTML Structure:**

* Responsive Navbar with links to Home, Products, About, Contact, and Cart pages.
* Hero section with welcome banner and call-to-action.
* Featured products section showcasing popular items.
* Footer with logo, description, and social media links.

**Features:**

* Responsive design compatible with desktops and mobile devices.
* Quick access to main sections and products.
* Visually appealing layout with images and banners.

**Possible Enhancements:**

* Add carousel for featured products.
* Integrate dynamic product loading from the backend.
* Implement animated hero banners.

**3.2 Registration Page (register.html)**

**Overview:**  
Enables new users to register by providing personal information, selecting gender, and choosing a favorite color.

**HTML Structure:**

* Input fields for Name and Age.
* Gender selection using interactive image buttons.
* Favorite color selection dropdown.
* Register button redirects to a personalized welcome page.

**Features:**

* Interactive gender selection enhances UX.
* Personalized greeting based on user input.
* Input validation to prevent incorrect submissions.

**Possible Enhancements:**

* Add multi-language support.
* Save registration data directly to backend database.
* Implement CAPTCHA for security.

**3.3 Login Page (login.html)**

**Overview:**  
Handles user authentication and redirects users based on their role.

**HTML Structure:**

* Navbar with role-specific links.
* Login form with Username, Password, and Role selection.
* Validation messages for incorrect login attempts.

**Features:**

* Role-based redirection to Admin, Seller, or Customer dashboards.
* Input validation and error messages.
* Secure password handling.

**Possible Enhancements:**

* OAuth login integration (Google, Facebook).
* “Forgot Password” and password reset functionality.
* Two-factor authentication.

**3.4 Dashboard Pages**

**3.4.1 Admin Dashboard (admin.html)**

**Overview:**  
Admin dashboard provides full control over users, orders, and system analytics.

**HTML Structure:**

* Sidebar navigation for Users, Orders, Products.
* Statistic cards for total users, orders, and revenue.
* Tables for detailed user and order management.
* Footer section with copyright and social links.

**Features:**

* Complete CRUD operations for user and product management.
* Reporting charts for data visualization.
* Fully responsive layout for all devices.

**Possible Enhancements:**

* Real-time updates and notifications.
* Export data to CSV or PDF.
* Dashboard customization options.

**3.4.2 Seller Dashboard (seller.html)**

**Overview:**  
Seller dashboard allows managing products, tracking sales, and processing orders.

**HTML Structure:**

* Sidebar with product and order management links.
* Statistic cards for total products, total sales, and active orders.
* Charts visualizing sales and inventory data.

**Features:**

* Add, edit, and delete products.
* View and process customer orders.
* Display charts for sales analysis.

**Possible Enhancements:**

* Interactive product analytics.
* Real-time order notifications.
* Integration with payment gateways.

**3.4.3 Customer Dashboard (dashboard.html)**

**Overview:**  
Customer dashboard shows personal profile, order history, and recommended products.

**HTML Structure:**

* Profile section with user info.
* Orders table with status tracking.
* Recommended products section.

**Features:**

* View and track orders.
* Edit profile information.
* Personalized product recommendations.

**Possible Enhancements:**

* Wishlist functionality.
* Real-time order tracking.
* Customer feedback and rating system.
* Support, Returns, Shipping, Terms, Warranty, FAQ, About, Contact These pages provide additional information and assistance to users regarding policies, services, and company details.

**4. Features Summary**

* Role-based authentication (Admin, Seller, Customer)
* User management with CRUD operations
* Product management with inventory control
* Order management and tracking
* Reporting dashboards with visual charts
* 30-Day Return Policy with detailed instructions
* Fully responsive design for mobile and desktop

**5. Possible Enhancements**

* Real-time updates and notifications
* Interactive animations and UI improvements
* Export reports and data to CSV/PDF
* Multi-language support
* Backend integration with live database and analytics

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