TECHNICAL AND FUNCTIONAL DOCUMENTATION

Overview of the E-commerce System :-

* Purpose :- The e-commerce system serves as an online platform designed to facilitate the buying and selling of goods or services over the internet. Its primary purpose is to provide a convenient and secure environment for users to browse products, make purchases, and manage transactions.
* Key Features :-

 **Product Catalog:** Listing of available products with detailed descriptions, images, and pricing.

 **User Accounts:** Registration, login, and profile management functionalities for customers and admin .

 **Shopping Cart:** Capability to add, remove, and modify items before finalizing purchases.

 **Checkout Process:** Seamless process for users to complete transactions securely, including payment and shipping details.

 **Order Management:** Tools for tracking orders, managing cancellations, and handling returns or refunds.

 **Search and Filter:** Robust search functionality with filters to help users find products quickly.

 **Reviews and Ratings:** Platform for customers to leave feedback and ratings on products and services.

 **Security Measures:** Secure payment gateways, and data protection protocols to ensure user privacy and transaction security.

System Architecture:-

 Frontend (Html ,Css and React)

 Backend (Django)

 Database (Mysql)

 Third-party integrations ( Payment gateway, APIs)

Functional Requirements:-

* User Roles:

 Customer

 Administrator

* User Management:

 User registration and login.

 Profile management (update profile, password reset).

* Features:

 Registration and authentication

 Product browsing and searching

 Shopping cart management

 Order processing and management

 Payment gateway integration

 Reviews and ratings

 User account management

* Project Management:
* Product search and filtering.
* Product recommendations.
* Product catalog(categories, subcategories).
* Product listing (images, descriptions, pricing).
* Shopping Cart and Checkout:

 Adding/removing items from the cart.

 Cart management (quantity adjustments, save for later).

 Checkout process ( multiple payment options).

 Order confirmation and invoice generation.

* Order Management:

 Order history.

 Status tracking.

* Site Administration:

 Dashboard for site administrators.

 Inventory management.

 Customer review features