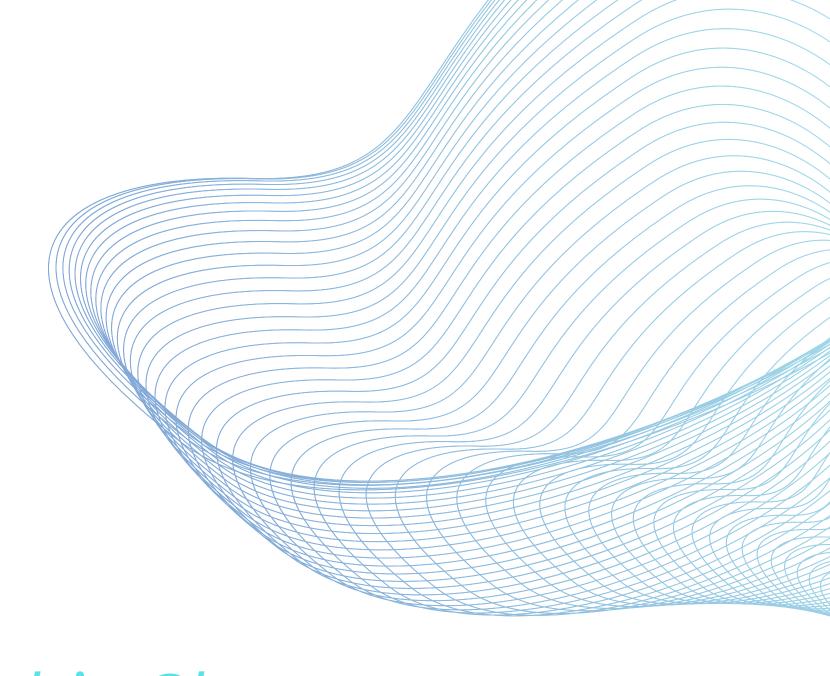


Online Retail Store

Assignment-1

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Objective

To develop an online retail store that allows customers to browse and purchase products from a plethora of categories, including personal goodies, electronics, home appliances, and more.

#Important Note

The project's scope is limited to the following features(below), and any additional requirements will be evaluated and considered for inclusion in future phases of development.

Project Scope

Our project deals with making and managing an online retail store. In this project, we have primarily focused on creating an end-to-end database management system using MySQL. With the rise of e-commerce, it has become essential for businesses to have an online presence. An online retail store is a powerful platform that allows customers to browse and purchase products from the comfort of their own home. The aim of our project is to bridge the gap between sellers and consumers, and make the process of shopping hassle-free and convenient.

The store will allow customers to browse and purchase products online. Customers will be able to create an account, view their order history, and track the status of their current orders.

Products will be organized into categories and subcategories for easy browsing. Customers will have the ability to search for products by keywords, and filter their results by various criteria such as price and brand. A shopping cart feature will allow customers to add multiple items to their order before checking out.

A secure checkout process will ensure that customer's sensitive information is protected. An order confirmation and shipping notification email will be sent to customers upon successful completion of their order. A back-end admin panel will allow store staff to manage products, orders, customers, and other website content.

It would have all the added features to make the process more efficient and smooth. We have also included Git for version control to ensure all members of the team have the latest version of the database with them.

Stakeholders

- Admin-> Development team responsible for creating and managing the online store and its database.
- Customers-> The users of the platform who will buy products from the store.
- Sellers-> Manufactures/Distributors who will list their products on the platform and sell the products to consumers as per the demand.
- Logistics Agency-> Company/Group of people responsible for delivering the ordered products to the shipping address.
- Warehouse Owners-> People responsible for providing a storage facility for the ordered product to be delivered by the logistics agency.

Functional Requirements

- Customer account-> Customers should be able to create a new account, log in to their existing ones, view their order history, and track the status of their current orders.
- Product Browsing and Search-> Customers should be able to browse products by category and subcategory and search for products by keywords. Products should contain relevant information such as name, description, price, and image.
- Shopping cart-> Customers should be able to manage their Shopping carts, like adding products to their shopping cart, viewing the contents of their cart, and updating the quantity of items in the cart. It must also support product deletion & checking for its availability before its addition to the cart.

- Checkout-> The Checkout process for the Shopping cart should be as seamless as possible. Customers should be able to proceed to checkout and modify/enter their shipping and billing information. It must be noted that the checkout process should be secure and must protect customersensitive information.
- Payment-> The Transaction process should follow the basic principles of atomicity & concurrency.
- Order confirmation and shipping notification-> Customers should receive an email confirmation of their order and a shipping notification email once their order has been shipped.
- Order Tracking-> Customers should be able to track the status of their order and should be notified of the expected delivery date.

- Promotions and Offers->The website should have a feature to apply offers
 & discounts on products or orders.
- Back-end Admin Portal-> Store staff should be able to manage products, orders, customers, and other website content through a back-end admin portal.

#Important Note

This is just an exhaustive list, capturing the basic requirements of the online retail store. The actual functional requirements will depend on the requirement and features of the store.

Technical Requirements

- Database-> MySQL will be used as the primary database management system to store and manage customer information, product information, and order information.
- Programming language-> A server-side programming language, Python, will handle the application logic and interact with the database.
- Front-end framework-> A front-end framework using React will create the user interface and handle client-side interactions.
- Web Framework-> Flask framework with Python will be used for handling the web framework, used for sending the content to the front-end framework.

#Important Note

Note: This is just a general list of technical requirements, the actual requirements will depend on the requirement and features of the store.