

# **Project Plan**

**I. Title :** Ecommerce platform for Online Clothing Store

**II. Description :**

- User-friendly and convenient online store that sells a variety of clothing apparels.
- With the robust back-end technology of Spring Boot and the dynamic front-end of React, this combination is both reliable and scalable.
- We aim to provide a seamless platform for fashion enthusiasts to explore, discover, and shop for the latest trends and styles.

**III. Scope :**

- The main aim of our product is to build an Ecommerce platform for a particular Small brands, community groups, local clothing stores which sell clothing apparel and want to increase their reach through online presence.
- Customers will be authenticated and authorised to be able to make an order, view order details, track an order, cancel an order and manage their account details.
- The customers should be able to search for different varieties of clothes, filter them according to colour, size, design, gender, category and sort them according to price, popularity, latest additions, and then add the clothes of their choice to cart and make payment to create an order.
- The administrator will be able to add new products, update details of the products ie. Price, Stock, Category or any other fields.
- The Administrator should also be able to manage Customer details like email, password, phone etc
- The administrator should be able to schedule a sale event on the website for a particular time period, where discount is applied on all/some products.
- The administrator should be able to create a Promo-code which can be applied on specific products to avail some discount.

#### IV. Timeline :

Date	Phases
12-08-2023	Project Plan
13-08-2023	Project Requirements gathering
14-08-2023	SRS Documentation
15-08-2023	System Design - ER Diagram , Data Flow Diagram
16-08-2023	System Design - UML Diagrams
17-08-2023	System Design - UML Diagrams
18-08-2023	Implementation
19-08-2023	Implementation
20-08-2023	Implementation
21-08-2023	Implementation
22-08-2023	Implementation
23-08-2023	Testing
24-08-2023	Integration Testing
25-08-2023	Deployment
26-08-2023	
27-08-2023	Project Presentation Practice
28-08-2023	Project Presentation (Tentative)

#### V. Actors / Roles and their Role descriptions

- Customer - Browses through the various products through sorting, filtering, adds products to carts and makes purchases.
- Administrator - Administrator is authorised to change/update product details as well as Customer details. Also schedules Sale events and generates new promo codes.

## **VI. Requirements**

### **1. Functional Requirements**

#### **Customer -**

- Register on the platform or create a new account
- Customer should verify mobile number and email through OTP
- Log into their account to access the platform through password or OTP
- Browsing products from different categories
- Search a product according to its name or its specifications
- View a product's page which contains the product name, images, size options, colour options, customers' photos and reviews, ratings, offers available on the product, related items, and buttons to add the product to the customer's wishlist , cart or to buy the product
- Add products to their wishlist
- Remove products from their wishlist
- Add products to their shopping cart
- Remove products from their shopping cart
- Modify the quantity of the product in the shopping cart
- Move a product from shopping cart to wishlist
- Move a product from wishlist to shopping cart
- Choose the preferable payment method and purchase the product through the payment gateway
- Update their account details like mobile number, addresses
- Customers should be able to add multiple addresses to their account
- Share product details on various social media platforms through links
- View details of all the orders placed by them e.g. Order date, Order items and option to review an item/product.
- Track Order using the Order ID to know the detailed status or whereabouts of a particular Order, i.e. is it yet to be dispatched by the store, or is it in transit, or has it been delivered
- Customer should be able cancel an order and receive refund equivalent to the Order amount
- Customer should be able to return a product within a specific duration after delivery of the product eg 7 days , which will schedule a pick up of the product from the customer's address and also initiates refund process
- If a Customer orders a product, receives it, tries it on, only to realise that size is smaller or larger, or the colour is not what he/she expected, the the Customer should be able to exchange the product for another product of smaller or bigger size or different colour or design according to his/her requirements, subject to the price of the original order

- Customers are rewarded with some virtual coins which are added to the wallet after they make an order, quantity of coins to be added is proportional to the order amount.
- Customer should be able to use these virtual coins to get extra discount on future orders.
- Customer should have the option to delete his/her account

#### **Administrator -**

- Add a new Product to the platform by specifying its name, some products images, the sizes that it is available in, the colours it is available in, its design variations, its stock or available quantity, the discounts applicable on it, and its effective price
- Update all the product details such as current available stock, colours, sizes, name, price etc
- Should be able to delete or remove a product
- Should be able to update customer's personal details ie. name, phone, email, associated addresses, coin balance etc
- Remove a customer's details from the platform
- Update Status of an order as in progress from one stage to another stage of the delivery
- Remove or delete an Order
- Add a new product Category
- Update an existing product Category
- Remove a Product Category (also deletes the products in that category)
- Generate Promotional codes (Promo-codes) which can be applied on the checkout page to get a special discount. Promo codes can be generated for new customers, or for a special festival or occasion
- Should be able to deactivate a Promo code
- Schedule Sale Events - ie Events that last a specific duration ie 2-4 days during which there is huge discount applicable on selected products

## **2. Non-functional Requirements**

- User Friendly UI that is simple to use and navigate for users
- Authenticate and authorise the user according to its role
- Handle the increased traffic during the Sale hours without outage or downtime
- Compatibility with wide range of devices ie. Mobiles to Desktop
- Include support for multiple languages

## VII. System Design ( Basic ) :

