



# **INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT (IACSD), AKURDI, PUNE**

Documentation On

## **E-commerce website (clothing store)**

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## ABSTRACT

The advent of the digital age has transformed the way people shop, particularly in the realm of fashion. E-commerce platforms have emerged as powerful tools that connect retailers and consumers, transcending geographical boundaries and offering unparalleled convenience. This abstract delves into the innovative approach of [Clothing Store Name], a cutting-edge e-commerce website dedicated to revolutionizing the clothing shopping experience. With a focus on curated collections, personalized recommendations, seamless user interfaces, and enhanced customer engagement, [Clothing Store Name] stands at the forefront of the evolving fashion e-commerce landscape.

## ACKNOWLEDGEMENT

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**Atharva Shrivastava (223018)**

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# INTRODUCTION

The advent of the digital age has transformed the way people shop, particularly in the realm of fashion. E-commerce platforms have emerged as powerful tools that connect retailers and consumers, transcending geographical boundaries and offering unparalleled convenience. This abstract delves into the innovative approach of [Clothing Store Name], a cutting-edge e-commerce website dedicated to revolutionizing the clothing shopping experience. With a focus on curated collections, personalized recommendations, seamless user interfaces, and enhanced customer engagement, [Clothing Store Name] stands at the forefront of the evolving fashion e-commerce landscape.

In a world where shopping preferences are increasingly shifting towards online platforms, the fashion industry has witnessed a significant transformation. [Clothing Store Name] capitalizes on this trend by providing a comprehensive and user-friendly online platform for fashion enthusiasts. This abstract explores the strategies employed by [Clothing Store Name] to redefine the e-commerce landscape and offer customers an exceptional clothing shopping experience.

## Features:

- 1) User Registration and Authentication**
- 2) Product Browsing and Searching**
- 3) Product Details**
- 4) Shopping Cart**
- 5) Checkout and Payment**
- 6) User Profiles**
- 7) API Gateway Service**
- 8) Service Registry Service**
- 9) User Service**
- 10) Security Services**
- 11) Performance**
- 12) Scalability**

## 1.1 PROJECT OBJECTIVE

Our objective at [Clothing Store Name] E-commerce website is to provide an exceptional online shopping experience that seamlessly blends style, convenience, and quality for fashion enthusiasts worldwide. With a wide-ranging collection of trendy and classic clothing, our goal is to become the go-to destination for individuals seeking a diverse and curated selection of apparel.

Through our e-commerce platform, we aim to offer customers a user-friendly interface that simplifies browsing, searching, and purchasing processes. We are committed to delivering superior customer satisfaction by ensuring secure transactions, fast shipping, and responsive customer support.

## 1.2 PROJECT OVERVIEW

The E-commerce Clothing Store project aims to establish a user-friendly and visually engaging online platform for purchasing a wide range of clothing items. The website is designed to provide customers with a seamless shopping experience, combining a modern interface with intuitive navigation. The store will offer an extensive collection of clothing items, including casual wear, formal attire, activewear, and accessories, catering to diverse preferences and styles.

Key features of the website include a user registration and login system, personalized user profiles, a comprehensive product catalog with sorting and filtering options, detailed product pages with high-quality images and thorough descriptions, as well as a user-friendly shopping cart and checkout process. Additionally, the website will incorporate secure payment gateways to ensure safe transactions. The design will be responsive and adaptable to various devices, ensuring accessibility for users on both desktop and mobile platforms.

Through this E-commerce Clothing Store project, we intend to tap into the growing online shopping market, providing customers with a convenient and enjoyable shopping journey while showcasing the latest fashion trends. The website's success will be measured by factors such as user engagement, conversion rates, and customer feedback.

## 1.3 PROJECT SCOPE

Project Scope: E-Commerce Clothing Store Website

This project aims to develop a comprehensive e-commerce website for a clothing store, providing a user-friendly online platform for customers to browse, select, and purchase a wide range of clothing items. The website will be designed to showcase the latest clothing collections, enabling customers to filter products based on categories, sizes, colors, and styles.

The scope of this project includes:

1. User Interface and Design
2. Product Catalog
3. User Registration and Authentication
4. Shopping Cart and Checkout
5. Search and Filters
6. Responsive Design
7. Order Management
8. Payment Gateway Integration
9. Security Measures
10. Feedback and Ratings
11. Admin Dashboard
12. SEO and Analytics
13. Social Media Integration
14. Content Management System

## 1.4 STUDY OF THE SYSTEM

### 1.4.1 MODULES:

The system after careful analysis has been identified to be presented with the following modules and roles.

The modules involved are:

- User Authentication and Registration
- Product Catalog and Management
- Shopping Cart
- Checkout and Payment

- User Profile and Orders
- Wishlist
- Reviews and Ratings
- Admin Dashboard and Management
- Search and Navigation
- Responsive Design
- Social Media Integration
- Security Measures

#### 1. User Authentication and Registration:

- User registration with email, password, and optional social media integration.
- Login and password recovery functionality.

#### 2. Product Catalog and Management:

- Display of clothing items with high-quality images, descriptions, prices, and sizes.
- Categorization of products into different sections (e.g., men's, women's, kids', accessories).
- Sorting and filtering options based on attributes like size, color, style, and price range.
- Product search functionality with autocomplete suggestions.

#### 3. Shopping Cart:

- Addition, removal, and modification of selected items.
- Display of total order summary, including subtotal, taxes, and shipping charges.
- Option to apply promo codes or discounts.

#### 4. Checkout and Payment:

- Secure checkout process with multiple payment options (credit/debit cards, digital wallets, etc.).
- Guest checkout or user account-based checkout for registered customers.
- Integration with a payment gateway for secure transactions.

#### 5. User Profile and Orders:

- User dashboard to manage profile information, addresses, and payment methods.
- Order history with details of past purchases and order statuses.
- Option to track the status of ongoing orders.

## 6. Reviews and Ratings:

- Customers can leave reviews and ratings for products.
- Display of average ratings and individual reviews on product pages.

## 7. Admin Dashboard and Management:

- Product management: adding, editing, and removing products.
- Order processing: updating order statuses, managing returns/refunds.
- User management: handling user accounts, access levels, and permissions.

## 8. Search and Navigation:

- Effective search functionality with filters and sorting options.
- Breadcrumb navigation for easy backtracking.

## 9. Responsive Design:

- Ensuring the website is optimized for various devices, including mobile phones and tablets.

## 11. Social Media Integration:

- Sharing options for products on social media platforms.
- Social media login and registration.

## 12. Promotions and Discounts:

- Display of ongoing promotions, discounts, and special offers.
- Integration of promo code application during checkout.

## 13. Security Measures:

- SSL encryption to ensure secure data transmission.
- Captcha verification to prevent spam and bots.

## 14. Analytics and Reporting:

- Integration with analytics tools to monitor user behavior and site performance.
- Reporting on sales, popular products, and user engagement.

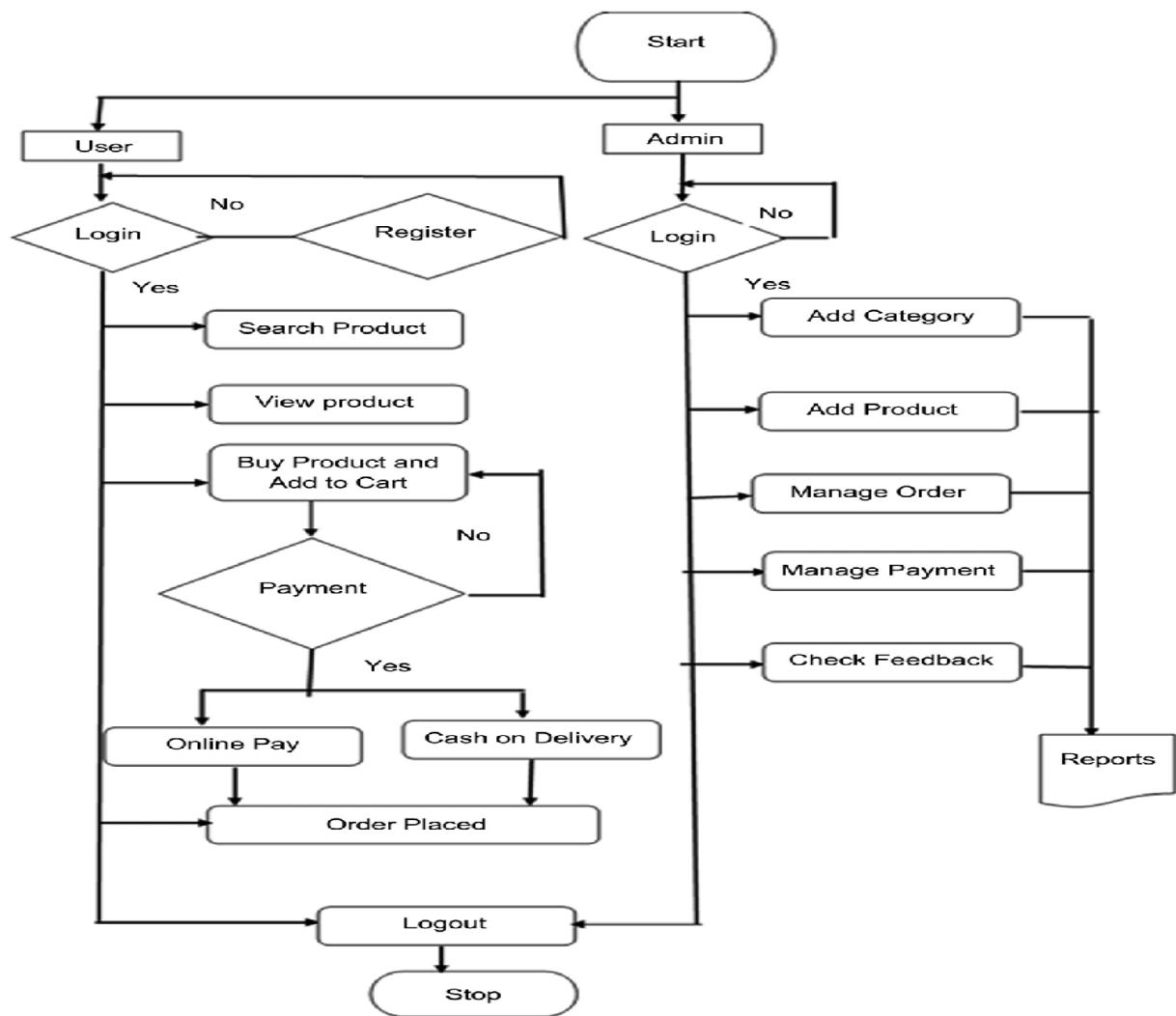


Figure 1 Project flow Diagram

In an e-commerce website for a clothing shop, the admin plays a crucial role in managing various aspects of the platform to ensure smooth operations and provide a positive experience for both customers and sellers. Here are the key modules and tasks performed by the admin:

**1. Product Management:**

- Add, edit, and delete products.
- Upload high-quality product images and descriptions.
- Set prices, discounts, and availability status.
- Organize products into categories and subcategories.

**2. Inventory Management:**

- Monitor stock levels and receive notifications for low stock.
- Update inventory quantities based on new arrivals and sales.

**3. Order Management:**

- View and process customer orders.
- Update order statuses (e.g., pending, processing, shipped).
- Generate invoices and packing slips.
- Handle order cancellations and refunds.

**4. User Management:**

- Manage customer accounts and profiles.
- Review and approve seller accounts (if applicable).
- Reset passwords and assist with account-related issues.

**5. Seller Management:**

- Approve or disapprove sellers and their products (if the platform allows third-party sellers).
- Monitor seller performance and compliance with platform policies.

**6. Content Management:**

- Update banners, promotional banners, and featured products.
- Manage static content pages (e.g., About Us, Contact Us, FAQs).

**7. Discounts and Promotions:**

- Create and manage discount codes and promotional campaigns.
- Set up special offers, seasonal sales, and bundle deals.

**8. Analytics and Reporting:**

- Monitor website traffic, sales, and customer behavior using analytics tools.
- Generate reports on sales trends, popular products, and customer demographics.

**9. Customer Support:**

- Respond to customer inquiries and resolve issues.
- Handle returns, exchanges, and refunds.
- Address customer feedback and reviews.

**10. Payment and Security:**

- Configure and manage payment gateway integrations.
- Implement and oversee security measures to protect customer data.

**11. SEO and Marketing:**

- Optimize product listings and website content for search engines.
- Manage meta tags, URLs, and site structure for better SEO performance.

**12. Social Media and Content Sharing:**

- Integrate social media sharing options for products.
- Share updates, announcements, and promotions on social media platforms.

**13. Localization and Translation:**

- Manage translations of website content for international customers.
- Set up currency and language preferences for different regions.

**14. Maintenance and Updates:**

- Ensure the website's technical performance, speed, and security.
- Regularly update plugins, themes, and security patches.

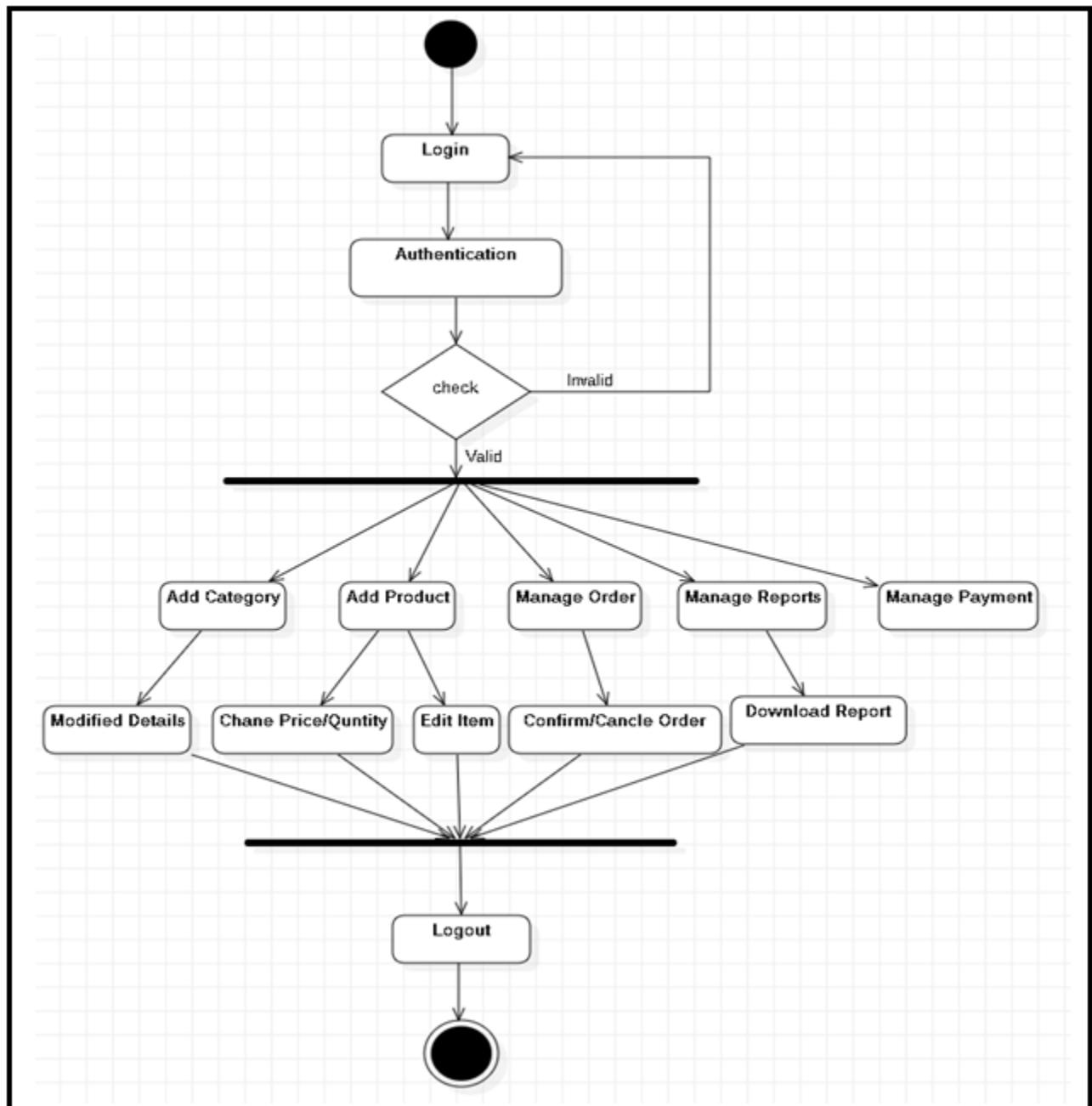


Figure 2 Admin Activity Diagram

In an e-commerce website for a clothing shop, users interact with various modules to explore, select, and purchase products. Here are the key modules performed by users:

1. User Registration and Login:

- Users create accounts or log in to access personalized features and track orders.

2. Product Browsing:

- Users can browse through the product catalog using categories, filters (size, color, price, etc.), and search functionality.

3. Product Details:

- Users can view detailed information about a specific product, including images, descriptions, prices, sizes, and available colors.

4. Shopping Cart:

- Users can add products to their shopping cart for future purchase, review the cart contents, and make modifications (add/remove items, update quantities).

5. Checkout Process:

- Users proceed to checkout from the shopping cart, enter shipping and billing details, and select a preferred payment method.

6. Payment Gateway:

- Users securely provide payment information and confirm the purchase.

7. Order Confirmation:

- Users receive a confirmation message, an order number, and details about their purchase.

8. User Profile:

- Users can manage their personal information, addresses, payment methods, and track order history.

9. Wishlist:

- Users can add products they are interested in to their wishlist for future consideration.

10. Reviews and Ratings:

- Users can view and submit reviews and ratings for products they have purchased, helping others make informed decisions.

11. Customer Support:

- Users can access customer support through various means like live chat, contact forms, or dedicated support pages.

12. Order Tracking:

- Users can track the status of their orders, including shipment updates and delivery estimates.

13. Promotions and Discounts:

- Users can apply discount codes and view ongoing promotions, encouraging them to make

purchases.

14. Social Sharing:

- Users can share products or their shopping experience on social media platforms.

15. Logout:

- Users can log out of their accounts to ensure privacy and security.

16. Responsive Design:

- Users can seamlessly interact with the website across different devices, such as desktops, tablets, and smartphones.

These modules collectively provide users with a comprehensive and engaging experience while navigating the clothing shop's e-commerce website, enhancing their shopping journey and satisfaction.

## Activity Diagram for User Side

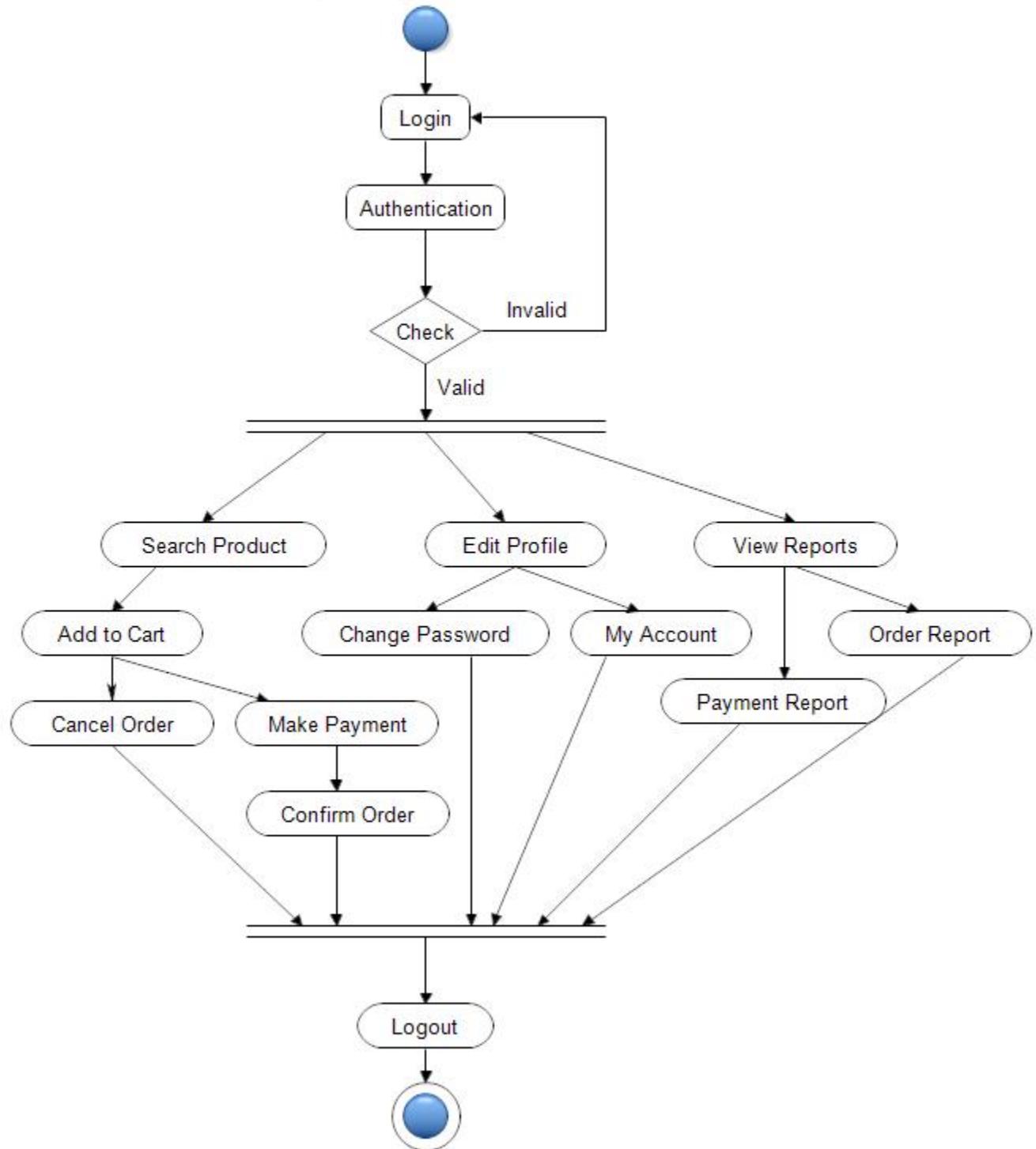


Figure 3 User Activity Diagram

## SYSTEM ANALYSIS

The proposed e-commerce clothing shop website undergoes system analysis to define its functional and non-functional requirements. It includes user registration, product browsing, shopping cart management, secure checkout, order tracking, and user profiles. Responsive design ensures usability across devices. The website integrates a payment gateway, review system, and social sharing. Security measures protect user data. SEO optimization and analytics enhance performance. The system aims to provide a seamless, secure, and user-friendly shopping experience, promoting customer engagement and loyalty.

### 2.1 EXISTING SYSTEM

The current e-commerce clothing shop website offers a basic platform for users to browse and purchase clothing products. It provides a simple user interface, product categories, and a shopping cart. However, it lacks advanced features such as personalized user profiles, detailed product descriptions, and secure payment gateways. The absence of a review and rating system hinders user feedback. Additionally, mobile responsiveness and overall design aesthetics need improvement. The existing system's limitations hinder user experience and growth potential, necessitating an upgrade to a more robust and feature-rich platform.

- ✓ It is less user-friendly.
- ✓ Secretary has to meet each member of the flat and give notice or maintenance bill.
- ✓ It is difficult to gather each member of society at one place.
- ✓ Secretary has to maintain the whole paper work describing the details flats and their owners.
- ✓ It is a time-consuming process
- ✓ Not in reach of distant users.

### 2.2 PROPOSED SYSTEM

#### E-Commerce Clothing Shop Website

This proposed system outlines the development of an advanced e-commerce website for a clothing shop. The website will feature an intuitive user interface, seamless navigation, and a comprehensive product catalog. Users will effortlessly browse, select, and purchase clothing items, facilitated by a secure checkout process and integrated payment gateway. The system will ensure user registration, order tracking, and personalized profiles. The project emphasizes responsive design, scalability, and robust security measures. By integrating essential modules

like shopping cart, product details, and user profiles, the proposed system aims to provide an exceptional online shopping experience for customers.

## 2.3 SYSTEM REQUIREMENT SPECIFICATION

### 2.3.1 GENERAL DESCRIPTION

An e-commerce website for a clothing shop typically consists of various modules to ensure smooth functionality and an optimal user experience. Here are the key modules commonly found in such a website:

#### 1. User Authentication and Registration:

- User registration with email, password, and optional social media integration.
- Login and password recovery functionality.

#### 2. Product Catalog and Management:

- Display of clothing items with high-quality images, descriptions, prices, and sizes.
- Categorization of products into different sections (e.g., men's, women's, kids', accessories).
- Sorting and filtering options based on attributes like size, color, style, and price range.
- Product search functionality with autocomplete suggestions.

#### 3. Shopping Cart:

- Addition, removal, and modification of selected items.
- Display of total order summary, including subtotal, taxes, and shipping charges.
- Option to apply promo codes or discounts.

#### 4. Checkout and Payment:

- Secure checkout process with multiple payment options (credit/debit cards, digital wallets, etc.).
- Guest checkout or user account-based checkout for registered customers.
- Integration with a payment gateway for secure transactions.

#### 5. User Profile and Orders:

- User dashboard to manage profile information, addresses, and payment methods.
- Order history with details of past purchases and order statuses.
- Option to track the status of ongoing orders.

#### 6. Wishlist:

- Ability for users to save items they're interested in for future purchase.
- Option to move wishlist items to the shopping cart.

#### 7. Reviews and Ratings:

- Customers can leave reviews and ratings for products.
- Display of average ratings and individual reviews on product pages.

#### 8. Admin Dashboard and Management:

- Product management: adding, editing, and removing products.
- Order processing: updating order statuses, managing returns/refunds.
- User management: handling user accounts, access levels, and permissions.

#### 9. Search and Navigation:

- Effective search functionality with filters and sorting options.

- Breadcrumb navigation for easy backtracking.

#### 10. Responsive Design:

- Ensuring the website is optimized for various devices, including mobile phones and tablets.

#### 11. Social Media Integration:

- Sharing options for products on social media platforms.
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#### 12. Promotions and Discounts:

- Display of ongoing promotions, discounts, and special offers.
- Integration of promo code application during checkout.

#### 13. Security Measures:

- SSL encryption to ensure secure data transmission.
- Captcha verification to prevent spam and bots.

#### 14. Analytics and Reporting:

- Integration with analytics tools to monitor user behavior and site performance.
- Reporting on sales, popular products, and user engagement.

These modules collectively create a comprehensive and user-friendly e-commerce website for a clothing shop, offering customers a seamless shopping experience while enabling administrators to efficiently manage products, orders, and customer interactions.

## 2.3.2 SYSTEM OBJECTIVES

- To provide a Web site for online shopping platforms for an existing clothing shop business.

## 2.3.3 SYSTEM REQUIREMENTS

### 2.3.3.1 NON-FUNCTIONAL REQUIREMENTS

Performance:

- System should handle a large number of concurrent users.
- Quick loading times for product pages and checkout process.

Security:

- User data and passwords must be securely stored and encrypted.
- Payment processing should be done through the secure Razorpay gateway.

Usability:

- Intuitive and responsive user interface design using ReactJS.
- Mobile-friendly design for seamless user experience on various devices.

Scalability:

- Architecture should support easy scaling to accommodate growing user base.

Reliability:

- System should handle errors gracefully, providing informative error messages to users.

### 2.3.3.2 FUNCTIONAL REQUIREMENTS

#### Functional Requirement

User Registration and Authentication:

- Users can create accounts, providing necessary information.
- Users can log in using their credentials.
- Password recovery/reset functionality.

Product Browsing and Searching:

- Users can browse products by categories, sizes, and brands.
- Search functionality with filters to help users find products quickly.

Product Details:

- Detailed product pages with images, descriptions, prices, and available sizes.
- Product reviews and ratings.

Shopping Cart:

- Users can add/remove items to/from their shopping cart.
- Cart displays item details, quantities, and total cost.
- Users can update quantities and view the subtotal.

Checkout and Payment:

- Users can proceed to checkout from the cart.
- Integration with Razorpay payment gateway for secure payment processing.
- Order summary and payment confirmation.

User Profiles:

- Users can manage their profiles, including personal information and addresses.
- Order history and tracking.

Admin Panel:

- Admins can manage product listings, categories, and inventory.
- Order management and tracking.
- User account management.

## SYSTEM DESIGN

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. Its emphasis on translating design. Specifications to performance specification. System design has two phases of development.

- Logical Design
- Physical Design

During the logical design phase the analyst describes inputs (sources), outputs(destinations), databases (data stores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

### 3.1 INPUT AND OUTPUT DESIGN

#### 3.1.1 INPUT DESIGN:

Input design is the link that ties the information system into the world of its users. The input design involves determining the inputs, validating the data, minimizing the data entry and providing a multi-user facility. Inaccurate inputs are the most common cause of errors in data processing. Errors entered by the data entry operators can be controlled by input design. The user-originated inputs are converted to a computer-based format in the input design. Input data are collected and organized into groups of similar data. Once identified, the appropriate input media are selected for processing. All the input data are validated and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, it is transferred to the appropriate tables in the database. In this project the student details are to be entered at the time of registration. A page is designed for this purpose which is user friendly and easy to use. The design is done such that users get appropriate messages when exceptions occur.

#### 3.1.2 OUTPUT DESIGN:

Computer output is the most important and direct source of information to the user. Output desig

is a very important phase since the output needs to be in an efficient manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. The output module of this system is the selected notifications.

## DATABASE DESIGN

### 3.2 DATABASE

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are

- Primary key - the field that is unique for all the record occurrences
- Foreign key - the field used to set relation between

tables Normalization is a technique to avoid redundancy in the  
tables.

### 3.3 SYSTEM TOOLS

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

#### 3.3.1 FRONT END:

React is a library which is developed by Facebook and utilized to implement the frontend. React (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single page or mobile applications. However, React is only concerned with state management and rendering that state to the DOM, so creating React applications usually requires the use of additional libraries for routing, as well as certain client-side functionality.

#### 3.3.2 BACKEND:

The back end is implemented using MySQL which is used to design databases.

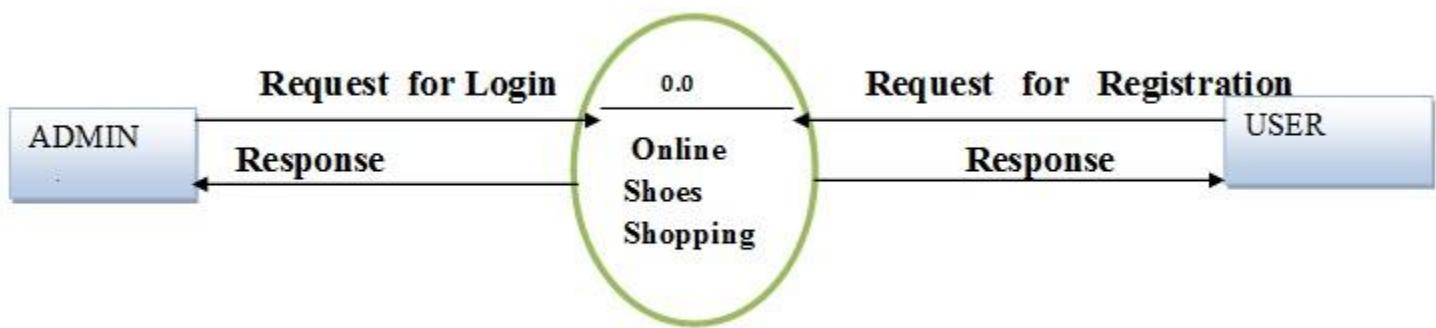
#### MySQL:

MySQL is the world's second most widely used open-source relational database management system (RDBMS). The SQL phrase stands for Structured Query Language.

#### Spring-Boot

This is used to connect MYSQL and fetch data from the database and store the data in the database. The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. Although the framework does not impose any specific programming model, it has become popular in the Java community as an addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is Open-source Framework.

## 0 Level DFD



*Figure 4 0 Level DFD*

## 1,2 Level DFD for Admin

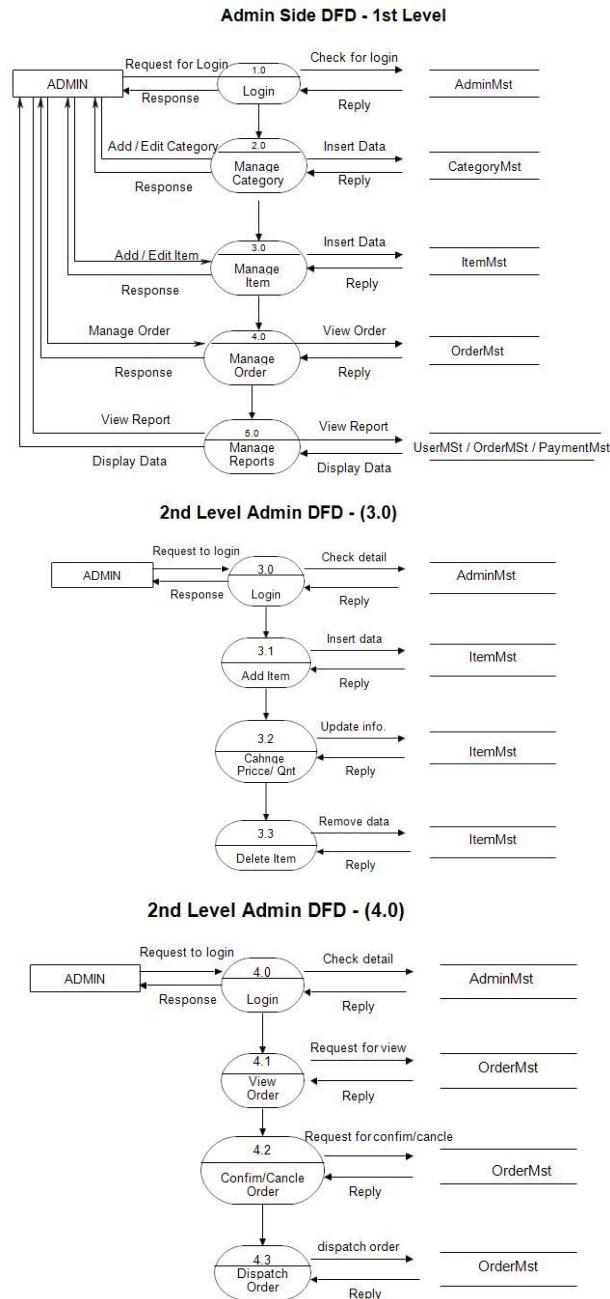
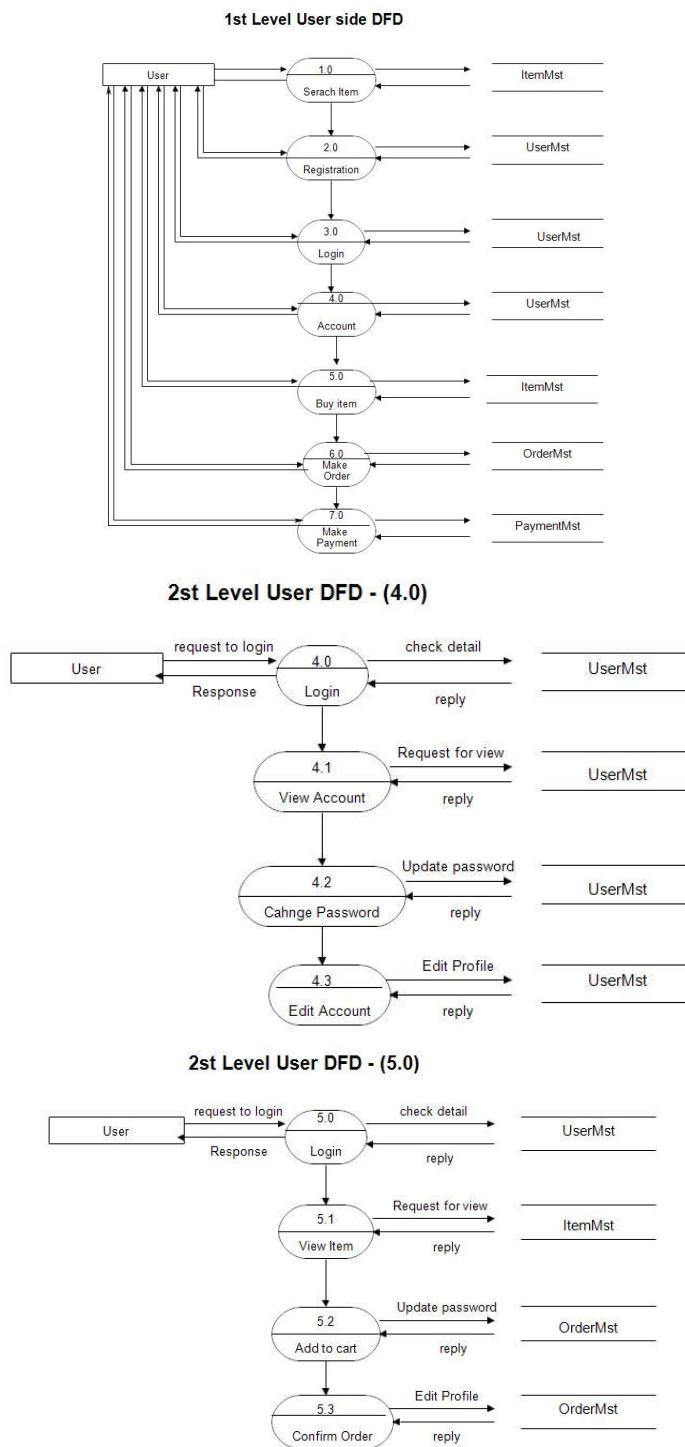


Figure 5 1,2 Level DFD for Admin

## 1,2 Level DFD for User



**Figure 6 1,2 Level DFD for User**

## E-R Diagram:

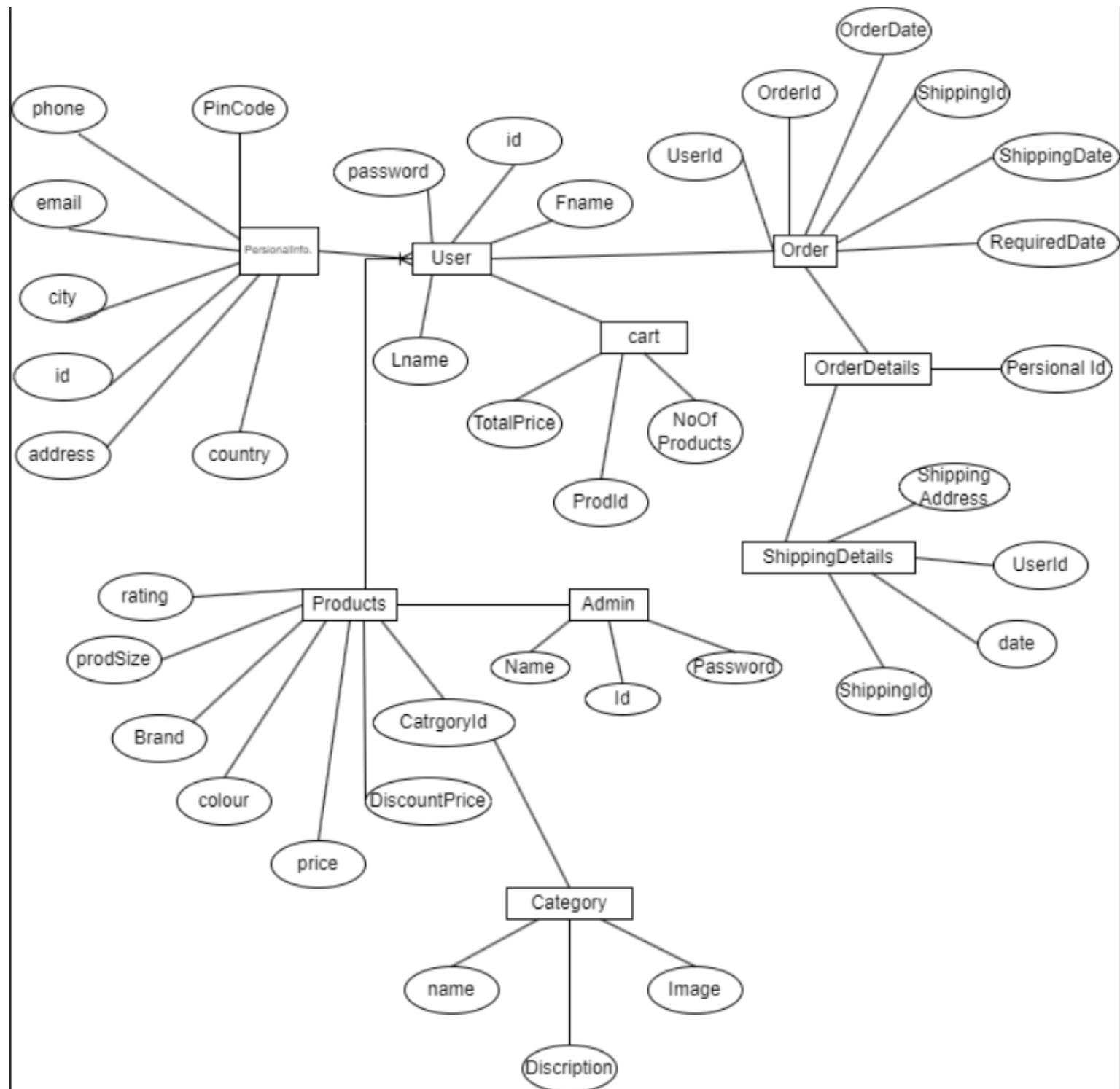


Figure 8 E-R Diagram

## Class Diagram

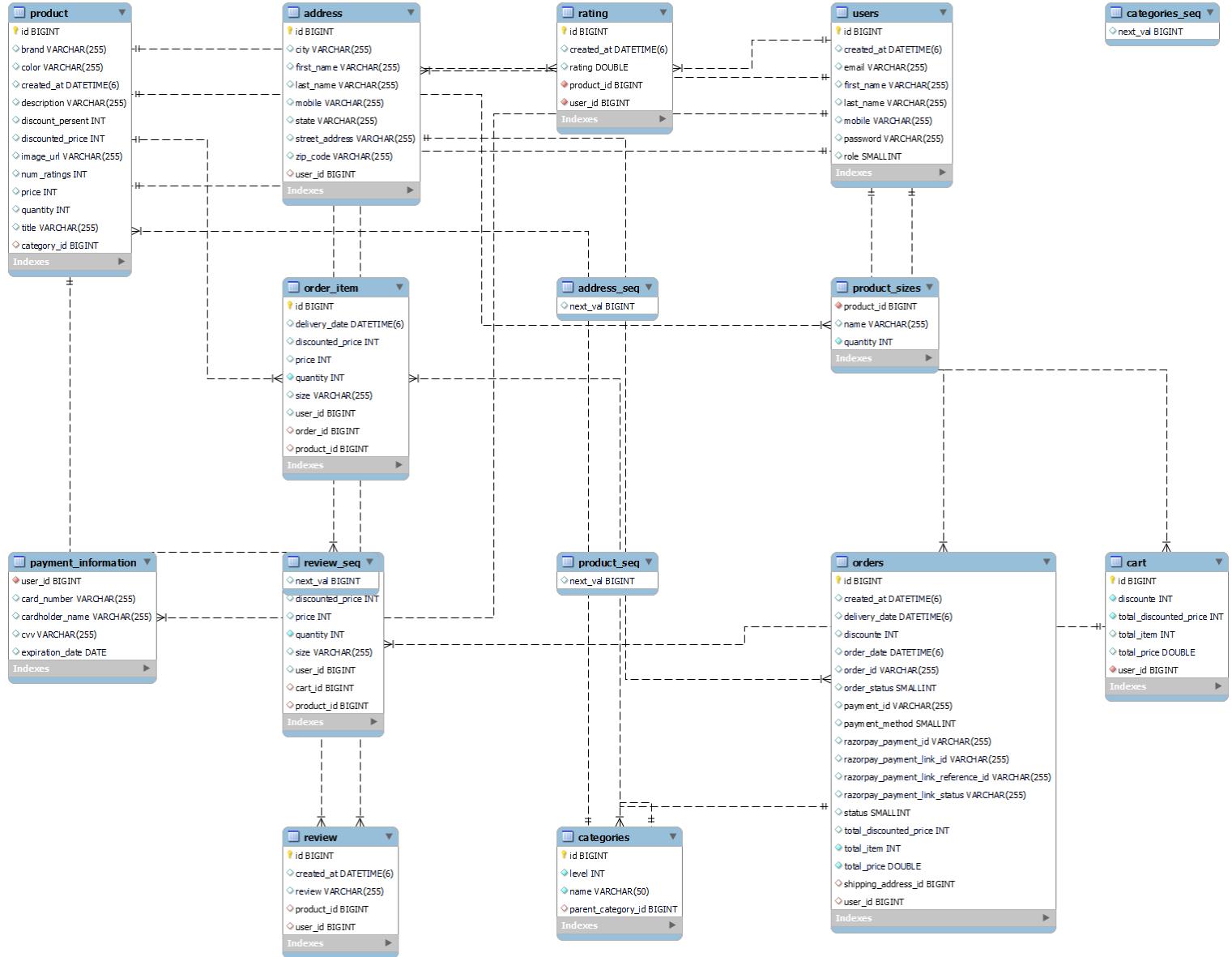
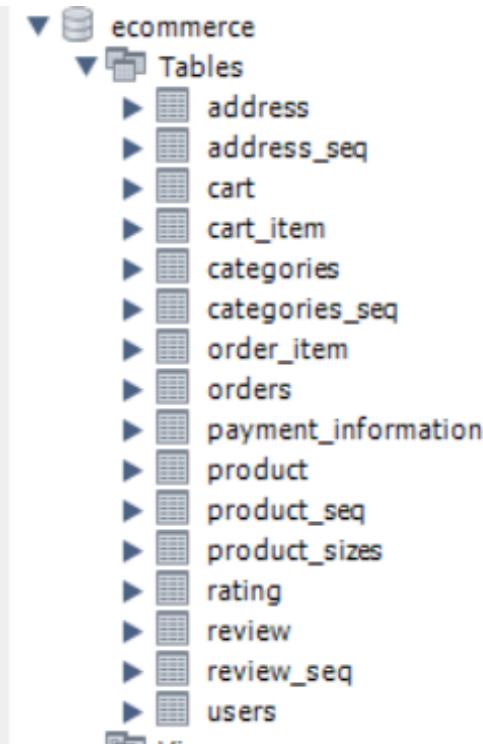


Figure 9 Class Diagram

## TABLE STRUCTURE:

### Tables:



### Table: address

#### Columns:

<b>id</b>	bigint PK
city	varchar(255)
first_name	varchar(255)
last_name	varchar(255)
mobile	varchar(255)
state	varchar(255)
street_address	varchar(255)
zip_code	varchar(255)
<b>user_id</b>	bigint

**Table: cart\_item****Columns:**

<b>id</b>	bigint AI PK
discounted_price	int
price	int
quantity	int
size	varchar(255)
user_id	bigint
<b>cart_id</b>	bigint
<b>product_id</b>	bigint

**Table: cart****Columns:**

<b>id</b>	bigint AI PK
discounte	int
total_discounted_price	int
total_item	int
total_price	double
<b>user_id</b>	bigint

**Table: categories****Columns:**

<b>id</b>	bigint PK
level	int
name	varchar(50)
<b>parent_category_id</b>	bigint

**Table: order\_item****Columns:**

<b>id</b>	bigint AI PK
delivery_date	datetime(6)
discounted_price	int
price	int
quantity	int
size	varchar(255)
user_id	bigint
<b>order_id</b>	bigint
<b>product_id</b>	bigint

**Table: orders****Columns:**

<b>id</b>	bigint AI PK
created_at	datetime(6)
delivery_date	datetime(6)
discounte	int
order_date	datetime(6)
order_id	varchar(255)
order_status	smallint
payment_id	varchar(255)
payment_method	smallint
razorpay_payment_id	varchar(255)
razorpay_payment_link_id	varchar(255)
razorpay_payment_link_reference_id	varchar(255)
razorpay_payment_link_status	varchar(255)
status	smallint
total_discounted_price	int
total_item	int
total_price	double
<b>shipping_address_id</b>	bigint
<b>user_id</b>	bigint

**Table: payment\_information****Columns:**

<b>user_id</b>	bigint
<b>card_number</b>	varchar(255)
<b>cardholder_name</b>	varchar(255)
<b>cvv</b>	varchar(255)
<b>expiration_date</b>	date

**Table: product****Columns:**

<b>id</b>	bigint PK
<b>brand</b>	varchar(255)
<b>color</b>	varchar(255)
<b>created_at</b>	datetime(6)
<b>description</b>	varchar(255)
<b>discount_persent</b>	int
<b>discounted_price</b>	int
<b>image_url</b>	varchar(255)
<b>num_ratings</b>	int
<b>price</b>	int
<b>quantity</b>	int
<b>title</b>	varchar(255)
<b>category_id</b>	bigint

**Table: product\_sizes****Columns:**

<b>product_id</b>	bigint
<b>name</b>	varchar(255)
<b>quantity</b>	int

**Table: rating****Columns:**

<b>id</b>	bigint AI PK
created_at	datetime(6)
rating	double
<b>product_id</b>	bigint
<b>user_id</b>	bigint

**Table: review****Columns:**

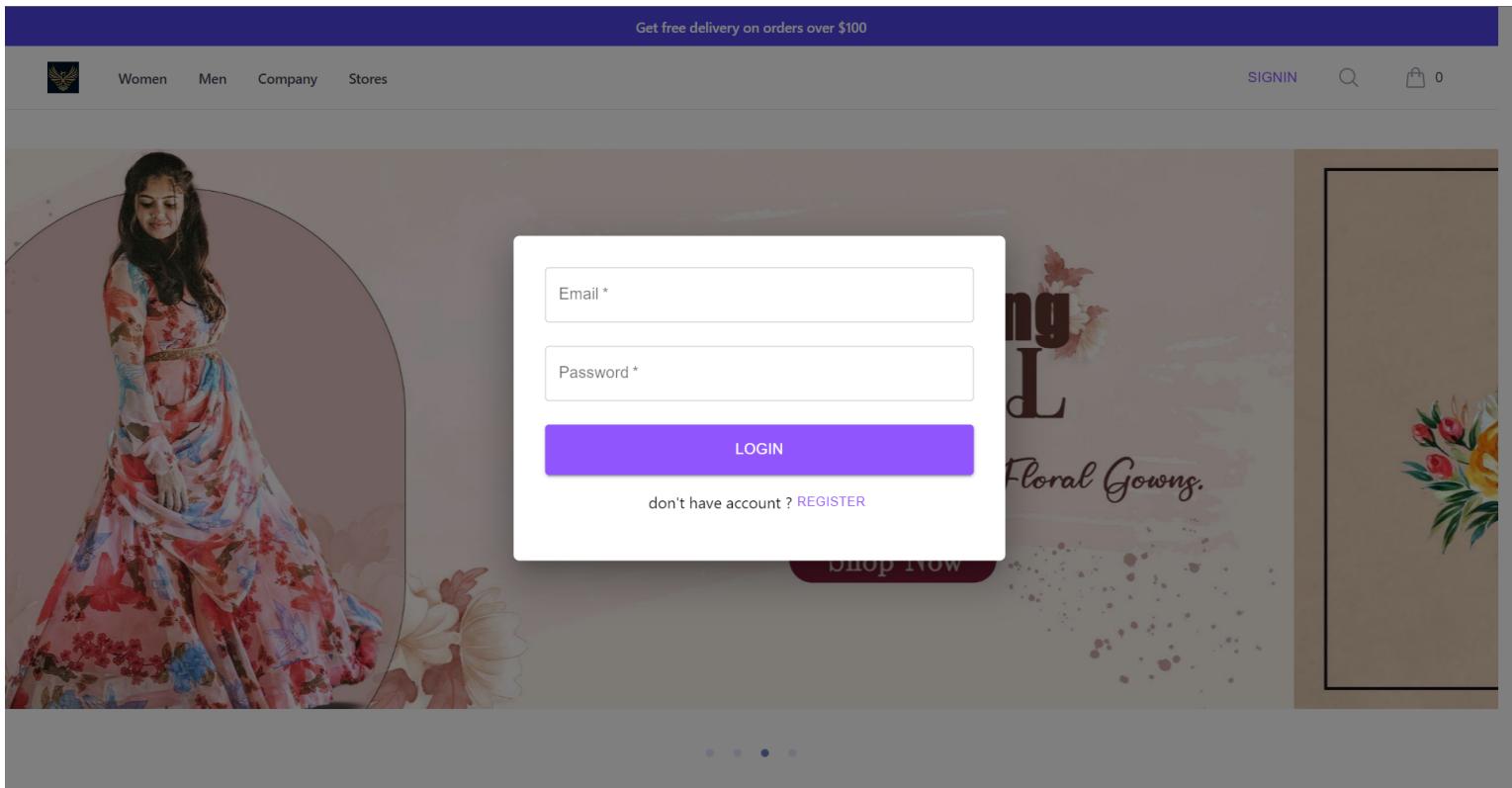
<b>id</b>	bigint PK
created_at	datetime(6)
review	varchar(255)
<b>product_id</b>	bigint
<b>user_id</b>	bigint

**Table: users****Columns:**

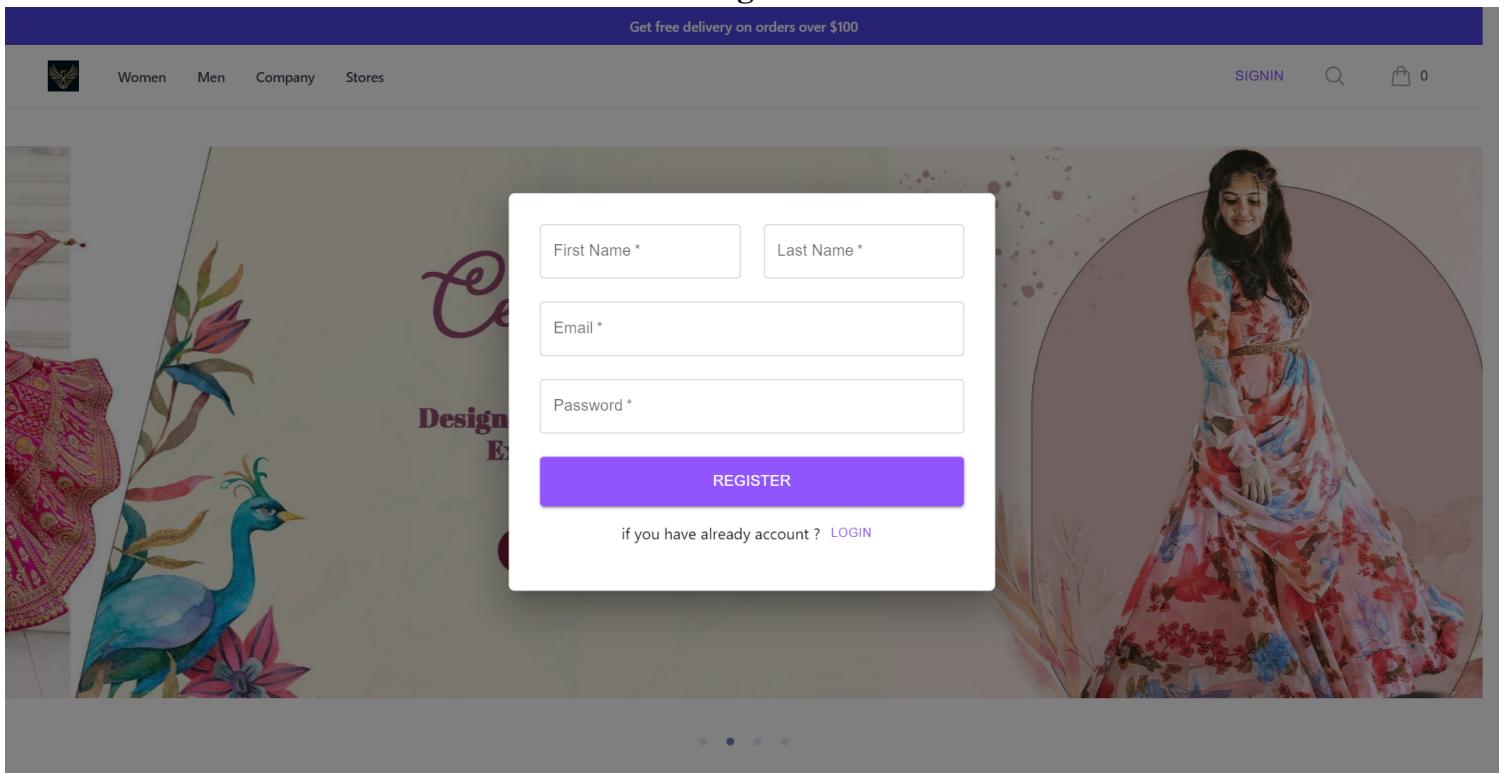
<b>id</b>	bigint AI PK
created_at	datetime(6)
email	varchar(255)
first_name	varchar(255)
last_name	varchar(255)
mobile	varchar(255)
password	varchar(255)
role	smallint

# PROJECT DIAGRAMS

## User login



## Register:



## Home Page:

Get free delivery on orders over \$100



Women Men Company Stores



0



# Fascinating FLORAL

Accentuate Your Beauty In Floral Gowns.

Shop Now

## Admin Home:

Search... 4 17

- Dashboard
- Products
- Customers
- Orders
- Total Earnings
- Weekly Overview
- Monthly Overview
- Add Product

**Shop With Zosh**  
Congratulations 🎉

420.8k

[VIEW SALES](#)

**Monthly Overview**

Total 48.5% growth 🎉 this month

Sales 245k	Customers 12.5k	Products 1.54k	Revenue \$88k
------------	-----------------	----------------	---------------

**Weekly Overview**

90k

60k

30k

0k

45% Your sales performance is 45% 🎉 better compared to last month

[DETAILS](#)

**Total Earning**

**\$24,895** ▲ 10%

Compared to \$84,325 last year

Men Clothing, Footware \$24,895.65	Women Clothing, Handbags, Jewellery \$8,650.20
Kids Clothing \$1,245.80	

**New Orders** 862 -18%

Weekly Orders

**Refunds** \$78 -15%

Past Month

**Sales Queries** 15 -18%

Last Week

New Customers [View All](#)

Recent Orders [View All](#)

Search...

4 17

Dashboard

Products

Customers

Orders

Total Earnings

Weekly Overview

Monthly Overview

Add Product

Account

Request

### New Customers

Image	Name	Email
	Sally Quinn	eebsworth2m@sbwire.com
	Margaret Bowers	kocrevy0@thetimes.co.uk
	Minnie Roy	ediehn6@163.com
	Ralph Leonard	dfalloona@ifeng.com
	Annie Martin	sganderton2@tuttocitta.it

### Recent Orders

Image	Title	Price	Order Id	Status
	Women Asymmetric Pink Dress MADAME	1299	1	PLACED
	Women Maxi Blue Dress Daevish	341	2	PLACED
	Women A-line Purple Dress ZWERLON	499	3	PLACED
	Women Fit and Flare Black Dress Purshotam Wala	359	4	PLACED
	Women Fit and Flare Blue Dress Purshotam Wala	359	5	PLACED

### Recently Added Products

Image	Title	Category	Price	Quantity
	Women Asymmetric Pink Dress MADAME	dress	1299	100
	Women Maxi Blue Dress	dress	341	100

### Sales Over Time

View All

⋮

Search...

4 17

Dashboard

Products

Customers

Orders

Total Earnings

Weekly Overview

Monthly Overview

Add Product

Account

Request

## Add New Product

All Customers				
	User Id	Image	Name	Email
	1		Sally Quinn	eebsworth2m@sbwire.com
	2		Margaret Bowers	kocrevy0@thetimes.co.uk
	3		Minnie Roy	ediehn6@163.com
	4		Ralph Leonard	dfalloona@ifeng.com
	5		Annie Martin	sganderton2@tuttocitta.it
	6		Adeline Day	hnisius4@gnu.org
	7		Lora Jackson	ghoneywood5@narod.ru
	8		Rodney Sharp	dcrossman3@google.co.jp

Get free delivery on orders over \$100

[Women](#)[Men](#)[Company](#)[Stores](#)**Clothing**[Mens Kurtas](#)[Shirt](#)[Men Jeans](#)[Sweaters](#)[T-Shirts](#)[Jackets](#)[Activewear](#)**Accessories**[Watches](#)[Wallets](#)[Bags](#)[Sunglasses](#)[Hats](#)[Belts](#)**Brands**[Re-Arranged](#)[Counterfeit](#)[Full Nelson](#)[My Way](#)**New Arrivals**[Shop now](#)**Artwork Tees**[Shop now](#)

## Men's Kurta



**Majestic Man**  
Men Printed Pure Cotton Straight Kurta



**SG LEMAN**  
Men Embroidered Jacquard Straight Kurta



**FUBAR**  
Men Printed Cotton Blend Straight Kurta



**ALY JOHN**  
Men Solid Pure Cotton Straight Kurta



**PETER ENGLAND**  
Men Woven Design Pure Cotton Straight Kurta



**Majestic Man**  
Men Solid Pure Cotton Straight Kurta

## Men's Shoes



**Abros**  
ASCC101EN Running Shoes For Men



**asian**  
OYGEN DE Running Shoe For Men



**BIRDE**  
Combo Pack of 2 Sports Shoes



**BRUTON**  
Trendy Sports Running Shoes



**BRUTON**  
Sports shoes for men 11street



Get free delivery on orders over \$100



[Women](#) [Men](#) [Company](#) [Stores](#)

A



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### Clothing

Tops  
Dresses  
Women Jeans  
Lengha Choli  
Sweaters  
T-Shirts  
Jackets  
Gowns  
Sarees  
Kurtas

### Accessories

Watches  
Wallets  
Bags  
Sunglasses  
Hats  
Belts

### Brands

Full Nelson  
My Way  
Re-Arranged  
Counterfeit  
Significant Other



New Arrivals  
Shop now



Basic Tees  
Shop now



• • • •

**Saree**

PRATHAM BLUE  
PRATHAM BLUE



Banaras silk palace  
Banaras silk palace



Qwarty  
Qwarty



Rarebeauty  
Rarebeauty



Tejassarees  
Tejassarees



Kalap  
Kalapu

**Dress**

MADAME



Daevish



ZWERLON



Purshottam Wala



Purshottam Wala



NEYSA

**Women's Gowns**

Riya Creation  
Houndstooth Rayon Blend  
Stitched Anarkali Gown



SAPONHARSH  
Printed Viscose Rayon Stitched  
Anarkali Gown



NE STYLE  
Printed Crepe Stitched Anarkali  
Gown



NE STYLE  
Printed Crepe Stitched Anarkali  
Gown



NE STYLE  
Printed Crepe Stitched Anarkali  
Gown



NE STYLE  
Printed Crepe St  
Gown

**Women's Kurtas**

WOVEN



IUBAC



Samay



Klaas



sheesha



BRICCA



# Product

Sort ▾



## Filters

Color	+
Size	+
Price	+
Discount Range	+
Availability	+

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## CONCLUSION

This Software Requirements Specification outlines the key features and functionalities of the E-commerce Clothing Website.

It provides a clear understanding of what the system aims to achieve and the technologies it will employ.

The successful implementation of this project will result in a fully functional and user-friendly online platform for purchasing clothing items.

The e-commerce landscape for clothing stores by focusing on curated collections, personalized recommendations, seamless user interfaces, enhanced product visualization, augmented reality integration, and social engagement. By combining these elements, [Clothing Store Name] offers customers a sophisticated and engaging online shopping experience that bridges the gap between convenience and personalized attention. As fashion and technology continue to intertwine, [Clothing Store Name] stands as a beacon of innovation in the realm of fashion e-commerce.

## REFERENCES

[1] JavaScript Enlightenment, Cody Lindley-First Edition, based on JavaScript 1.5, ECMA-262, Edition

[2] McGraw Hill's, Java: The complete reference 7thEdition, Herbert Scheldt

[3] Complete CSS Guide, Maxine Sherrin and John Allsopp-O'ReillyMedia; September 2012

## ONLINE REFERENCE

- [1] [www.Google.com](http://www.Google.com)
- [2] [www.w3school.com](http://www.w3school.com)
- [3] [www.javatpoint.com](http://www.javatpoint.com)
- [4] [www.stackoverflow.com](http://www.stackoverflow.com)
- [5] [www.reactbootstrap.com](http://www.reactbootstrap.com)
- [6] [www.doc.spring.io/spring-framework.com](http://www.doc.spring.io/spring-framework.com)
- [7] [www.geekforgeeks.com](http://www.geekforgeeks.com)
- [8] [www.microsoftdoc.com](http://www.microsoftdoc.com)
- [9] [www.geeksforpratice.com](http://www.geeksforpratice.com)