



Shopify Online Shopping

MASTER IN COMPUTER APPLICATIONS (MCA)

(3rd Semester Project)

Submitted to



LJ Institute of Computer Application

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Project Definition

❖ Introduction:

- E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace. The objective of this project is to develop a general purpose e-commerce store where product like clothes can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online shopping for clothes. An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. An e-mail notification is sent to the customer as soon as the order is placed.

❖ OVERALL DESCRIPTION :

- Any member can register and view available products.
- Only registered member can purchase multiple products regardless of quantity.
- ContactUs is available to contact Admin for queries using Email.
- There are three roles available: Visitor, User and Admin
- . Visitor can view available products.
 - User can view and purchase products.

- An Admin has some extra privilege including all privilege of visitor and user.
- ✓ Admin can add products, edit product information and add/remove product.
- ✓ Admin can add , edit Price of product .
- ✓ Admin can ship order to user based on order placed by sending confirmation mail.

❖ Objective Of the New System

- To develop an easy to use web based interface where users can search for products, view a complete description of the products and order the products.
- The objective of the new E-commerce website is to create a robust and feature-rich platform that offers a seamless shopping experience for users. The key objectives include:
 - User-Friendly Interface: Design an intuitive and responsive user interface that enables easy navigation and smooth browsing of products.
 - Extensive Product Catalog: Create a vast product catalog with various categories, enabling users to find their desired products easily.

- Personalized User Accounts: Offer personalized user accounts with order history.

- ❖ Improving customer Satisfaction:

- I. There are a few objectives that can assist with this, such as offering a good customer experience, fulfilling customer needs, and reducing complaints.
- II. Satisfying customer needs, one objective of ecommerce, includes ensuring that the products and services provided fulfills the requirements of the customer. This can be done through making sure of accuracy in product information, providing useful guides and tutorials, and responding quickly to questions.

- ❖ Increasing Conversion Rates: The primary objective of ecommerce businesses is to increase the conversion rates. One way to do it is to ensure that the website has a simple, effective design, pages load quickly and it is easy to navigate, along with it a compelling content and effective marketing strategies in place.

Core Component:

The E-commerce website will consist of the following core components:

- a) Home Page: A visually appealing home page featuring featured products, deals, and announcements.
- b) Product Listing Pages: Pages showcasing products in various categories with filtering and sorting options.
- c) Product Detail Page: Detailed product information, images, customer reviews, and related products.
- d) User Registration and Login: Secure user registration and login functionality with email verification.
- e) Shopping Cart: An interactive shopping cart that allows users to add, update, and remove items before checkout.
- f) Inventory Management: Admin can Manage Stock of Product. Admin can Edit the Stock of Product.
- g) Order Management: A section for Admin can manages order. Admin can manage order status.
- h) Admin Panel: A back-end admin panel for managing products, inventory, orders, and user accounts.
- i) Search Functionality: A powerful search feature to help users find products quickly.

j) CartPage : Allow users to create and manage Cart of desired products.

k) Contact and Support: Customer Can Easily Contact using Email.

Need of the new system:

➤ The need for the new E-commerce website arises due to the following reasons:

a) Improved User Experience: Customers expect an easy-to-use and visually appealing platform to enhance their shopping experience.

b) Enhanced Security: Existing E-commerce websites may have security vulnerabilities that can jeopardize user data and financial information.

c) Competitive Advantage: A feature-rich and reliable E-commerce website will help gain a competitive edge in the market.

d)Simplified Buying Process:

The most convenient aspect of ecommerce is that the customer can purchase directly from you after searching for an item online, without leaving home or interacting with a salesperson. Consumers expect goods to be available instantly, e-stores answer that needs. Because buying online doesn't require a visit to a retail store and products can be shipped from any place in the world, consumers aren't limited to shops in their local vicinity and spend less time shopping. That's what makes ecommerce an attractive alternative for them. As a retailer, you need to meet them online and give them what they're looking for.

e)Provide Interactive interface through which a user can interact with different areas of application easily.

f) A search engine that provides an easy and convenient way to search for products specific to their needs. The search engine would list a set of products based on the search term and the user can further filter the list based on various parameters.

❖ Scope :

The current system can be extended to allow the users to create accounts and save products in to Cart.

- The current system is confined only to the shopping cart process. It can be extended to have a easy to use check out process.
- Users can have multiple shipping and billing information saved.

❖ Project Profile:

Project Title	Shopify online shopping.
Components/Modules	Admin Users
Internal Guide	Prof.Suhas Nagori.
Platform	Web Application
Institute Name	LJ Institute of Computer Applications
Front-End	Html, CSS, Bootstrap
Back-End	PHP
Framework	-----
Softwires	Visual Studio Code, xampp.

Advantages and Limitations of the Proposed System:

➤ **Advantages:**

- Advantage of the system is that it is very easy to Reset the Password of the user and delete a add to cart products when it found unnecessary.
- Users can order products via websites.
- Only Admin have all the rights for managing all the product rate/quantity/size etc.

➤ **Limitations**

- Limited Access: Since the system is not hosted on a server, it can only be accessed by those who have physical access to the computer on which it is installed. This limits access to the system.
- User's don't have a right of admin panel.
- Offline payment is not available.

❖ Proposed Time Line Chart:

Proposed Timeline Chart																
Task	WEEKLY															
	August(2022)				September(2022)				October(2022)				November(2022)			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Introduction																
Problem Definition																
Objective Of The New System																
Core Components																
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Time Line Chart																
Requirement Determination																
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Use Case Diagram																
Class Diagram																
Activity Diagram																
Data Dictionary																
User Interface Design																
Coding Standards																
Test Case																
Proposed Enhancements																
Conclusion																
Bibliography																
Project Coding																

❖ Requirement Determination:

- **Similar Application/Websites Study**

We have analysed different websites & understood that what should we provide in this system.

- **Questionnaires**

We have also asked some questions to our faculty members & got some information from them also.

- **Group Discussion**

From group discussion we have finalised the modules which will be present in our system.

❖ Requirement Specification:

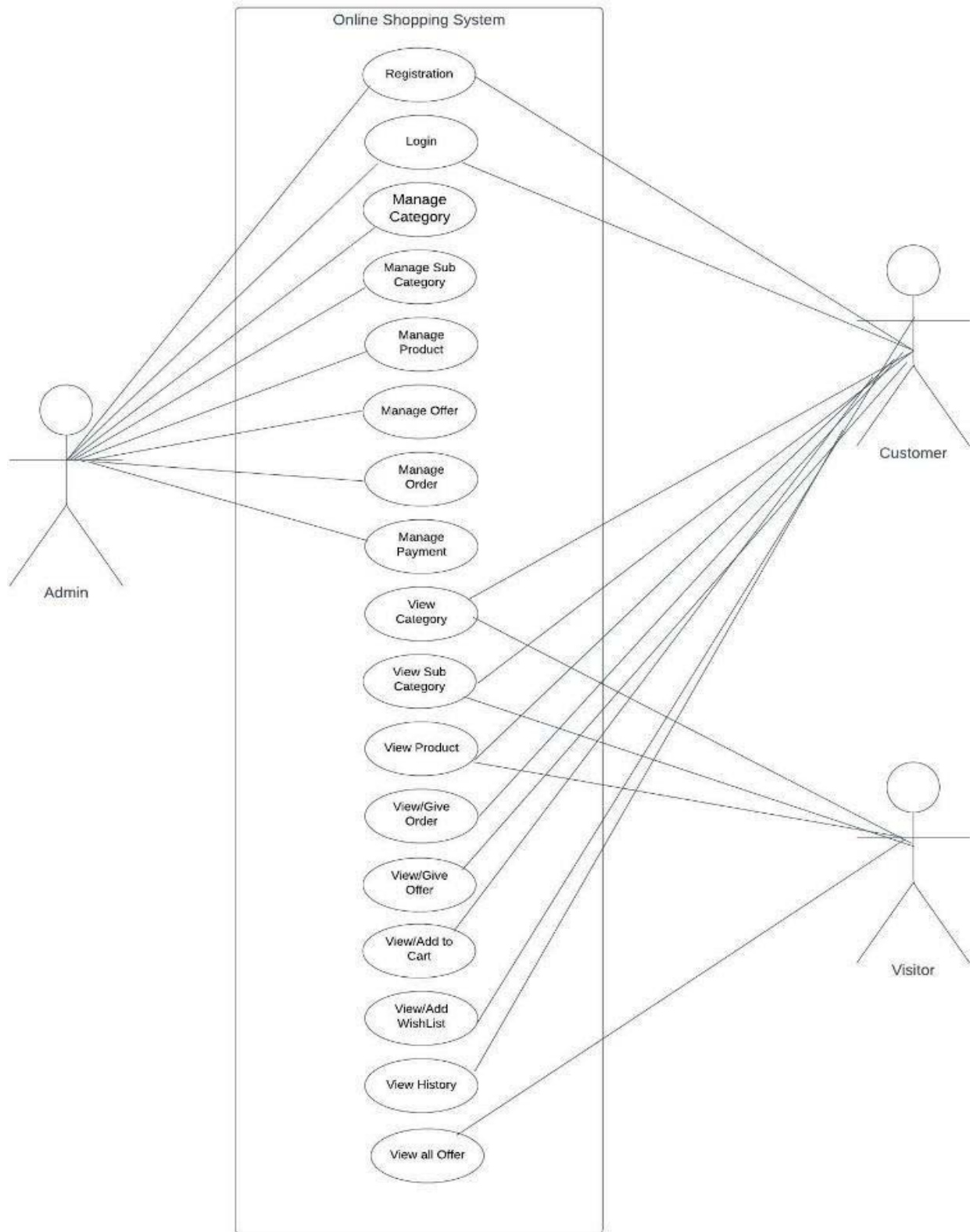
- **Functional Requirements**

- **Admin**

- Admin can Login in the system using login credentials.
- Admin can Manage his/her Profile like admin can View user profile.
- Admin can manage Quantity details.
- Admin can Manage product's details.

- Admin can manage product orders.
- Admin can manage feedbacks/Question of products Related. Admin can also reply to the feedback sender Through Email.
- **Users**
 - User can login in the system using login credentials.
 - User can manage their profile.
 - User can send feedback/Question to the admin.
 - Students can order products .
- **Non-Functional Requirements**
 - **Performance Requirements**
 - The System Must be able to perform smoothly without any interruptions.
 - **Security Requirements**
 - All the database should have backup in case of data loss.

Use Case Diagram



14) Data Dictionary:**Login details**

- **Table Name:** logindetails
- **Primary Key:** UserId
- **Foreign Key:** NA
- **Description:** It will store details of login user or admin

Fieldname	Datatype	Field size	Constraint	Value
UserId	integer	5	PRIMARY KEY	1
UserName	varchar	25	NOT NULL	hammad
//Email	Text	20	NOT NULL	hammad@gmail.com
Password	Text	20	NOT NULL	*****
UserType	Integer	1	NOT NULL	Admin/user

User details

- **Table Name:** userdetails
- **Primary Key:** User_id
- **Foreign Key:** NA
- **Description:** It will store details of Users.

Fieldname	Datatype	Field size	Constraint	Value
user_id	integer	3	PRIMARY KEY	1
name	varchar	25	NOT NULL	aakib
ContactNumber	varchar	10	NOT NULL	7984654747
Email	varchar	255	NOT NULL	Hammadsunsara9
Address	varchar	255	NOT NULL	Ahmedabad

Product Details

- **Table Name:** productdetails
- **Primary Key:** product_id
- **Foreign Key:** categoryid//
- **Description:** It will store details of Product.

Fieldname	Datatype	Field size	Constraint	Value
ProductId	Integer	5	PRIMARY KEY	1
CategoryId	integer	5	NOT NULL	112
Name	varchar	25	NOT NULL	Laptop
Description	varchar	255	NOT NULL	I3 8gen
Price	double	25	NOT NULL	40500
Quantity	Integer	5	NOT NULL	03
ImageUrl	varchar	200	NOT NULL	Laptop1.jpg

Sales order

- **Table Name:** Orders
- **Primary Key:** Order_id
- **Foreign Key:** NA
- **Description:** It will store details of sales order

Fieldname	Datatype	Field size	Constraint	Value
Order_id	Integer	5	PRIMARY KEY	1
DateTime	Date	-	NOT NULL	02-12-2022
Amount	Double	-	NOT NULL	50000
BillStatus	Varchar	25	NOT NULL	Pending
OrderStatus	Varchar	25	NOT NULL	Generated

Sales order details

- **Table Name:** salesorderdetails
- **Primary Key:** order_id, ProductId
- **Foreign Key:** NA
- **Description:** It will store details of Shipping

Fieldname	Datatype	Field size	Constraint	Value
OrderId	Integer	5	PRIMARY KEY	1
ProductId	Integer	5	NOT NULL	002
size	Integer	5	NOT NULL	001
Quantity	Int	5	NOT NULL	002
Amount	Double	-	NOT NULL	7984654746

CartDetails

- **Table Name:** CartDetails
- **Primary Key:** User_id
- **Foreign Key:** NA
- **Description:** It will store details of cart page of user.

Fieldname	Datatype	Field size	Constraint	Value
Userid	Integer	11	PRIMARY KEY	1
productid	Integer	11	NOT NULL	40
Quantity	Integer	11	NOT NULL	2
Amount	Double		NOT NULL	12500.00

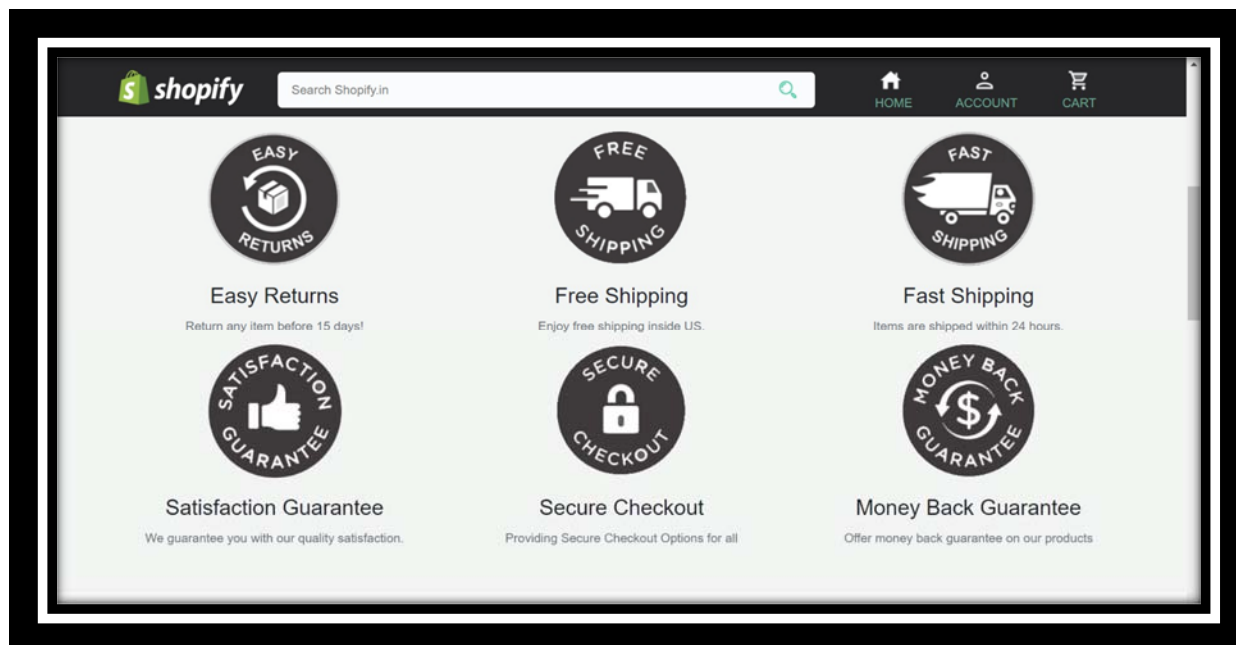
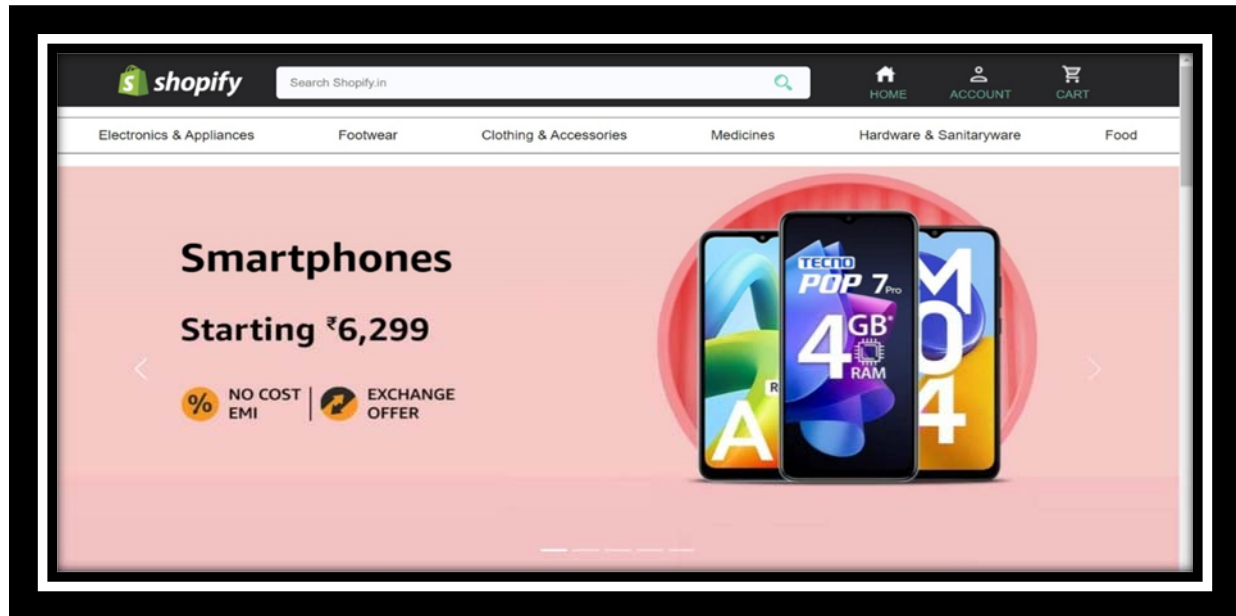
categorydetails

- **Table Name:** categorydetails
- **Primary Key:** CategoryId
- **Foreign Key:** NA
- **Description:** It will store details of c Category of product

Fieldname	Datatype	Field size	Constraint	Value
CategoryId	Integer	5	PRIMARY KEY	1
Name	Varchar	5	NOT NULL	electronics
SubCategory	Varchar	255	NOT NULL	smartphone

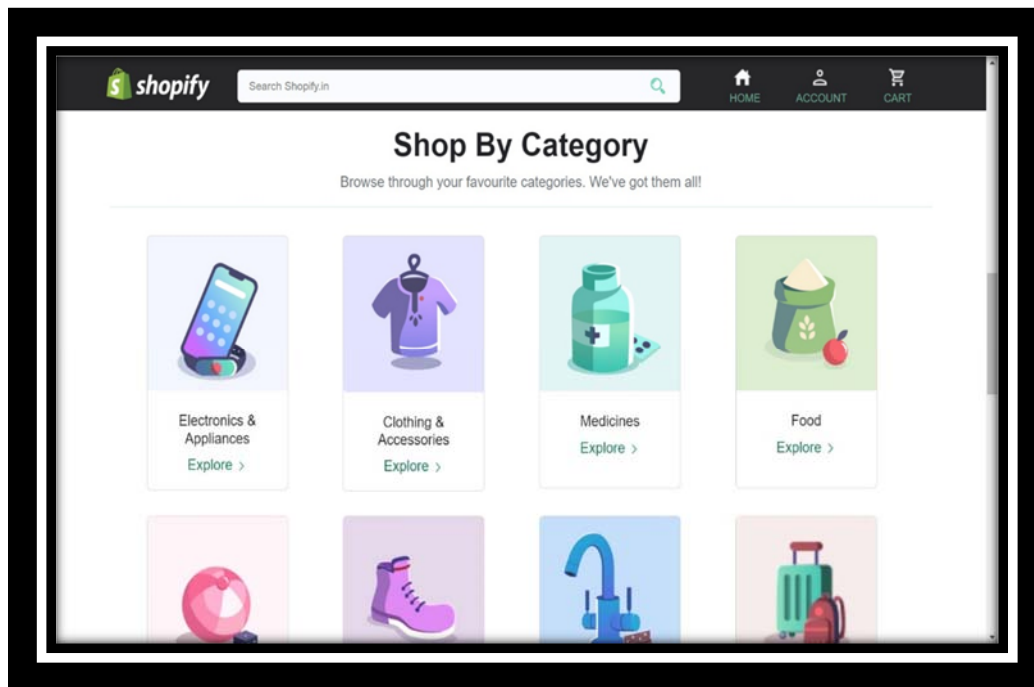
User Interface Design:

❖ Home Page

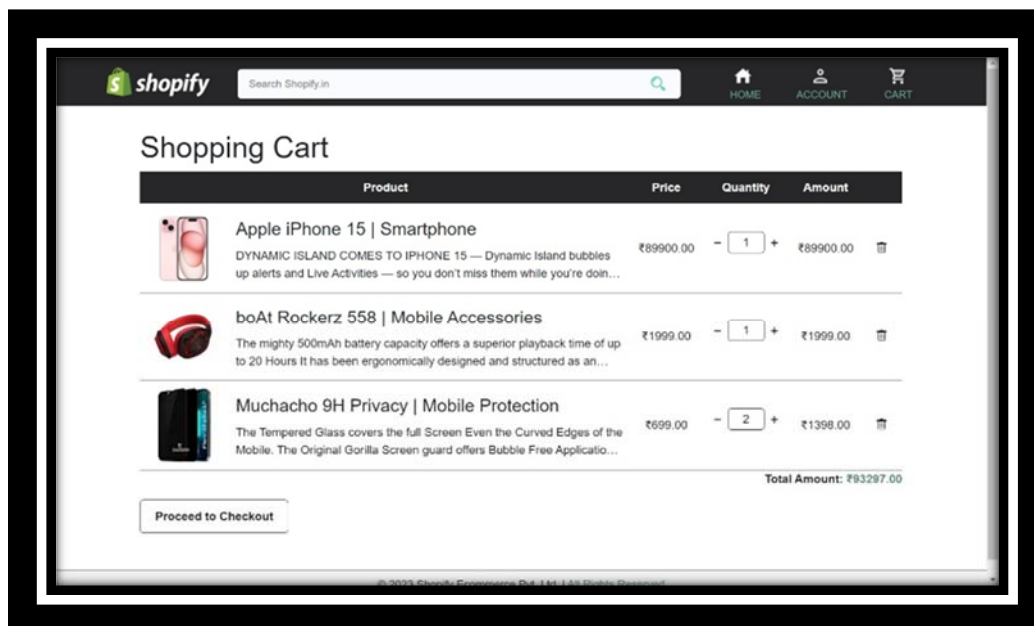




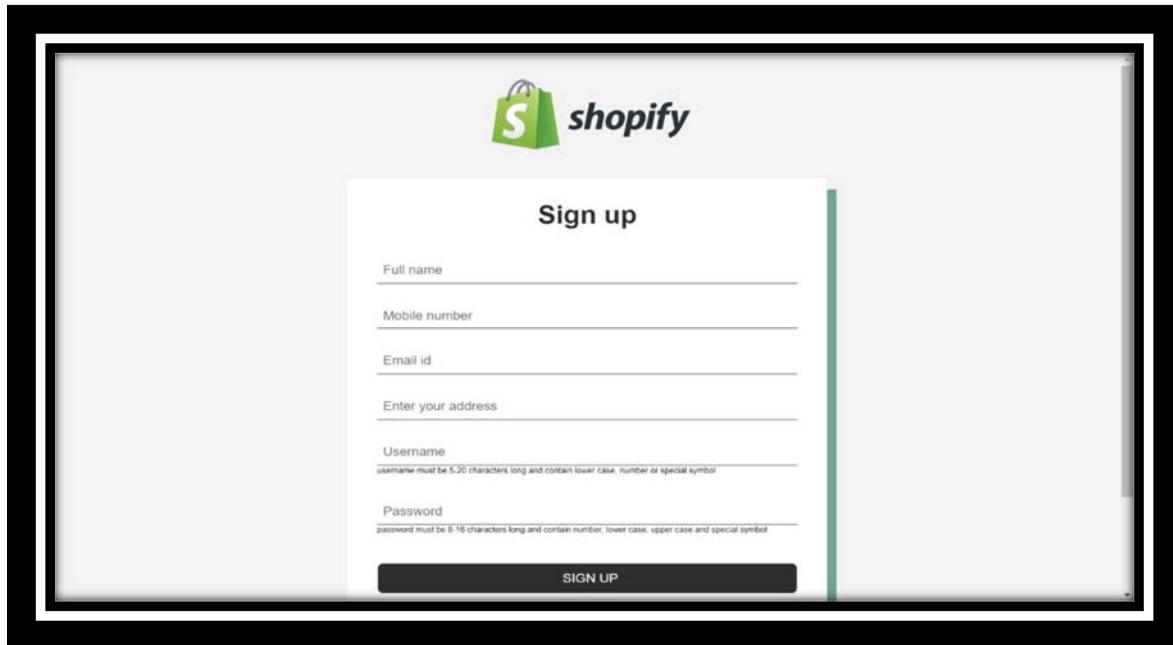
Category Page:



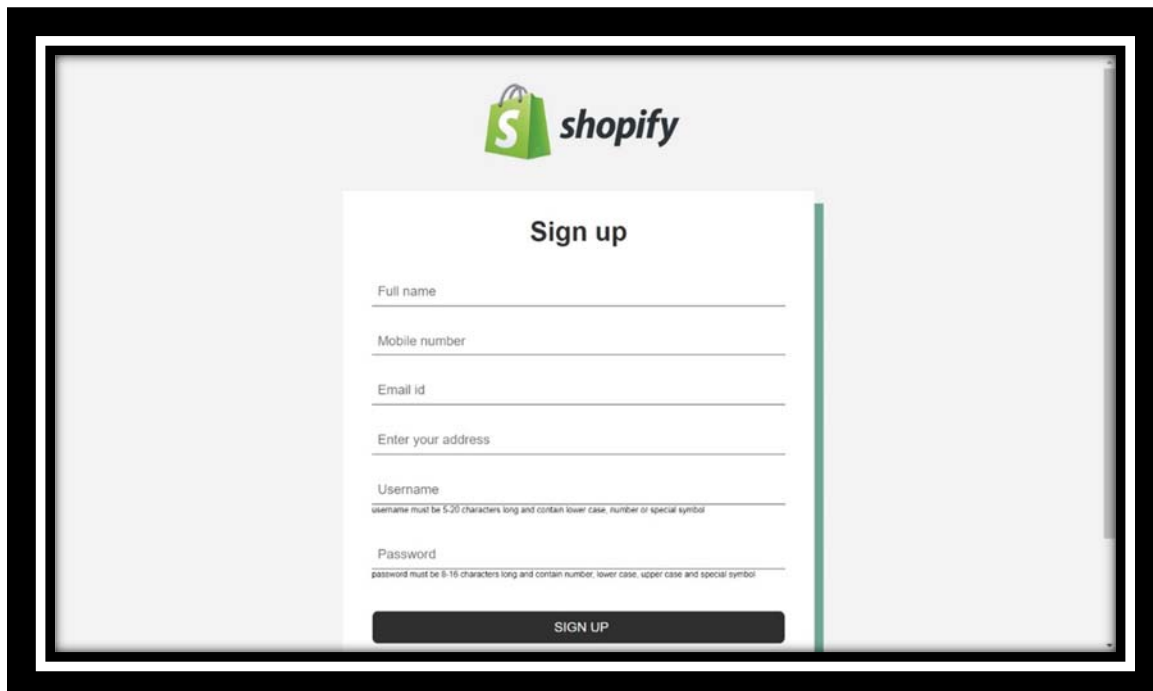
❖ Cart Page:



❖ Signup/Login page:

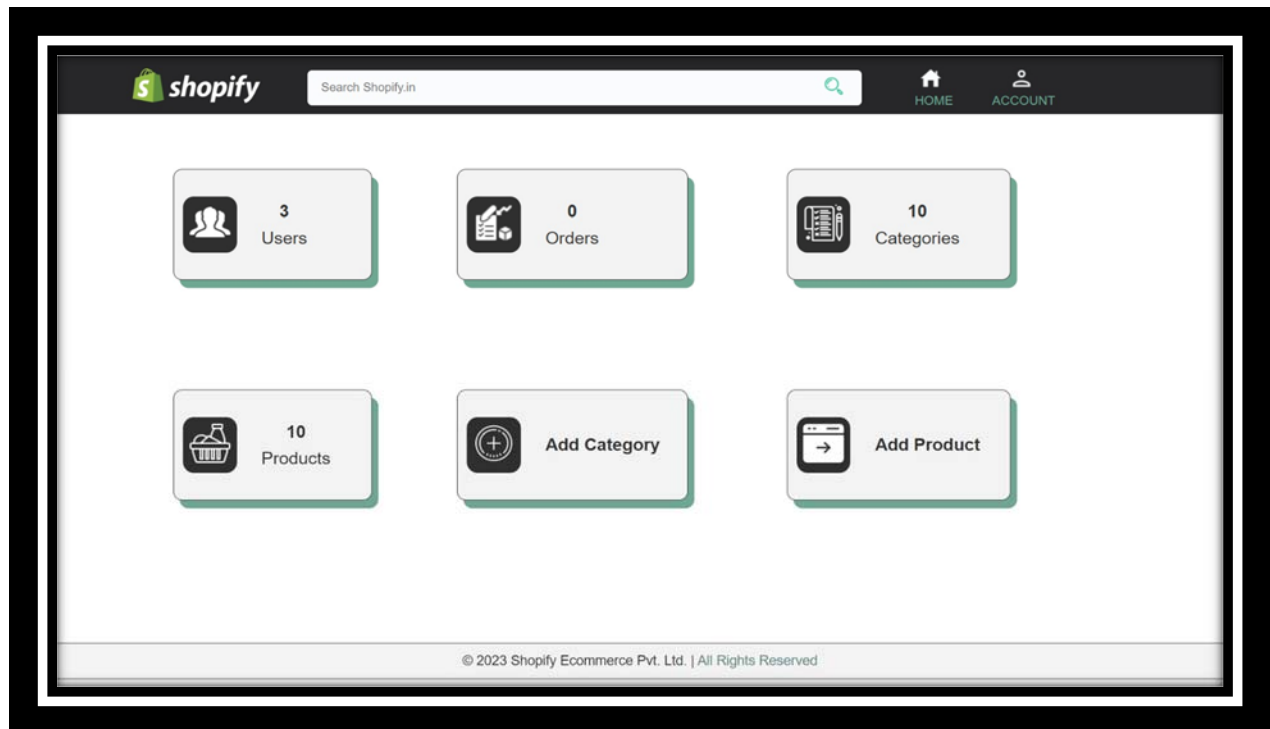


The image shows a screenshot of the Shopify sign-up page. At the top center is the Shopify logo, which consists of a green shopping bag icon with a white 'S' and the word 'shopify' in a black, lowercase, sans-serif font. Below the logo is a white rectangular form with a thin green border on the right side. The form is titled 'Sign up' in a bold, black, sans-serif font. It contains several input fields, each with a label and a horizontal line for text entry. The labels are: 'Full name', 'Mobile number', 'Email id', 'Enter your address', 'Username', and 'Password'. Below the 'Username' and 'Password' labels are small, italicized lines of text providing instructions: 'username must be 5-20 characters long and contain lower case, number or special symbol' and 'password must be 8-16 characters long and contain number, lower case, upper case and special symbol'. At the bottom of the form is a dark grey button with the text 'SIGN UP' in white, uppercase, sans-serif font.



This is an identical duplicate of the form shown in the first image. It features the Shopify logo at the top, followed by a 'Sign up' title and a series of input fields for 'Full name', 'Mobile number', 'Email id', 'Enter your address', 'Username', and 'Password'. Each field has a label and a horizontal line. Below the 'Username' and 'Password' fields are small, italicized instructions regarding character length and required characters. At the bottom is a dark grey 'SIGN UP' button.

❖ Admin Side:



The screenshot displays the 'Product list' section of the Shopify Admin dashboard. It features a table with the following data:

Product Id	Name	Price	Qty	Status
9	Realme 11 Pro+	29869	25	Live
10	Vector X Ranger Tennis	869	10	Live
14	Apple iPhone 15	89900	25	Live
15	Samsung Galaxy S23	134999	25	Live

Category	Description	Sub Category	Edit Option	Delete Option
Electronics & Appliances	200MP. Wow-worthy resolution - Resolution on the Wide-angle Camera has nearly doubled, delivering strikingly clear photos. Low light. Camera. Action - A Pro-grade Camera grabs brighter photos and video, dusk to dawn.	Smartphone	Edit	Delete
16	Apple Watch Ultra	82999	15	Live
17	boAt Rockerz 558	1999	10	Live
18	Amazon Basics Earbuds	849	25	Live

❖ Coding Standards

➤ Indentation:

- We have given proper indentation in our code so if any other developer reads our code then they can easily understand the code.

➤ Naming Conventions:

- We have used underscores to separate words of filename. So, it can be easily readable.
- We have used camelCase format for writing file/object/function names.

