

**E COMMERCE WEBSITE**  
**A MINI-PROJECT REPORT**

***Submitted by***

**AADHITHYA RK                      220701002**

**AADIYA S                              220701003**

***in partial fulfilment of the award of the degree***

***of***

**BACHELOR OF ENGINEERING**  
**IN**  
**COMPUTER SCIENCE AND ENGINEERING**



**RAJALAKSHMI**  
**ENGINEERING COLLEGE**  
An AUTONOMOUS Institution  
Affiliated to ANNA UNIVERSITY, Chennai

**RAJALAKSHMI ENGINEERING COLLEGE**  
**AUTONOMOUS, CHENNAI**

**NOV/DEC, 2024**

## **BONAFIDE CERTIFICATE**

Certified that this mini project “**E COMMERCE WEBSITE**” is the bonafide work of “**AADHITHYA RK (2116220701002)**”, “**AADITYA S(2116220701003)**” who carried out the project work under my supervision.

**SIGNATURE**

**DR. N DURAIMURUGAN ,**

Associate Professor,

Computer Science & Engineering

Rajalakshmi Engineering College

Thandalam, Chennai -602105.

Submitted for the End semester practical examination to be held on

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

## **ACKNOWLEDGEMENT**

I express my sincere thanks to my beloved and honorable chairman **MR.S.MEGANATHAN** and the chairperson **DR.M.THANGAM MEGANATHAN** for their timely support and encouragement.

I am greatly indebted to my respected and honorable principal **Dr. S.N.MURUGESAN** for his able support and guidance.

No words of gratitude will suffice for the unquestioning support extended to us by my head of the department **Dr. P. KUMAR**, and my Academic Head **Dr.R.SABITHA**, for being ever supporting force during my project work.

I also extend my sincere and hearty thanks to my internal guide **Dr.N.DURAIMURUGAN** for her valuable guidance and motivation during the completion of this project.

My sincere thanks to my family members, friends and other staff members of Computer Science and Engineering.

Aadhithya Rk (2116220701002)

Aaditya S (2116220701003)

## **ABSTRACT**

This project focuses on developing a robust and user-friendly e-commerce website aimed at streamlining online shopping experiences. The platform provides a seamless interface for both customers and vendors, enabling effortless product browsing, secure transactions, and efficient order management. Key features include a dynamic product catalog, personalized recommendations, a secure payment gateway, and real-time inventory tracking. The website is designed to enhance user experience through a responsive design, ensuring compatibility across devices. Advanced functionalities, such as a search engine with filters, customer reviews, and loyalty programs, contribute to a comprehensive shopping experience. Additionally, an admin dashboard allows sellers to manage products, monitor sales, and analyze customer behavior through insightful analytics. The project leverages modern web development technologies, ensuring scalability, security, and reliability.

# TABLE OF CONTENTS

CHAPTER NO.	TITLE	PAGE NO
	<b>ABSTRACT</b>	<b>4</b>
<b>1</b>	<b>INTRODUCTION</b>	<b>6</b>
	1.1 INTRODUCTION	6
	1.2 SCOPE OF THE WORK	6
	1.3 PROBLEM STATEMENT	6
	1.4 AIM AND OBJECTIVES OF THE PROJECT	7
<b>2</b>	<b>SYSTEM SPECIFICATIONS</b>	<b>8</b>
	2.1 HARDWARE SPECIFICATIONS	8
	2.2 SOFTWARE SPECIFICATIONS	8
<b>3</b>	<b>ARCHITECTURE DIAGRAM</b>	<b>9</b>
<b>4</b>	<b>MODULE DESCRIPTION</b>	<b>10</b>
<b>5</b>	<b>SYSTEM DESIGN</b>	<b>11</b>
	5.1 USECASE DIAGRAM	11
	5.2 E-R MODEL	12
	5.3 DATAFLOW DIAGRAM	13
	5.4 ACTIVITY DIAGRAM	15
<b>6</b>	<b>CODING</b>	<b>18</b>
<b>7</b>	<b>SCREENSHOTS</b>	<b>20</b>
<b>8</b>	<b>CONCLUSION</b>	<b>26</b>
	<b>REFERENCES</b>	<b>27</b>

# **CHAPTER 1**

## **1.1 INTRODUCTION**

This project aims to create a versatile e-commerce website that provides a seamless shopping experience for users. It features a user-friendly interface, secure payment options, and efficient order management. Designed for scalability and accessibility, the platform caters to modern digital commerce needs, benefiting both customers and businesses in the online marketplace.

## **1.2 SCOPE OF THE WORK**

The scope of this project includes developing a feature-rich e-commerce website with functionalities like product browsing, secure payments, order tracking, and an admin dashboard for inventory and sales management. It targets scalability, cross-platform compatibility, and user-centric design, ensuring a seamless experience for customers and efficient operations for businesses.

## **1.3 PROBLEM STATEMENT**

As online shopping continues to grow, businesses face challenges in providing a seamless and secure digital platform that meets customer expectations. Existing solutions often lack user-friendly interfaces, effective inventory management, personalized recommendations, and scalable infrastructure. These shortcomings can lead to reduced customer satisfaction and hinder business growth. This project aims to address these issues by developing a reliable, feature-rich e-commerce website that ensures an efficient shopping experience while supporting businesses in managing their operations effectively.

## **1.4 AIM AND OBJECTIVES OF THE PROJECT**

The aim of this project is to design and develop a comprehensive e-commerce website that offers a seamless and secure platform for online shopping. It seeks to enhance user experience through intuitive navigation, personalized features, and efficient transaction processes while empowering businesses with robust tools for inventory management, sales analysis, and scalability.

The objective of this project is to develop a comprehensive e-commerce website that offers a seamless shopping experience and supports business operations. The platform aims to provide a user-friendly interface, secure payment options, and real-time order tracking for customers. For businesses, it includes features like dynamic product management, insightful analytics, and an admin dashboard for efficient operations. Additionally, the website will incorporate personalized recommendations, scalability to handle growing traffic, and robust customer support tools to ensure satisfaction and long-te





## **CHAPTER 2**

### **SYSTEM SPECIFICATIONS**

#### **2.1 HARDWARE SPECIFICATIONS**

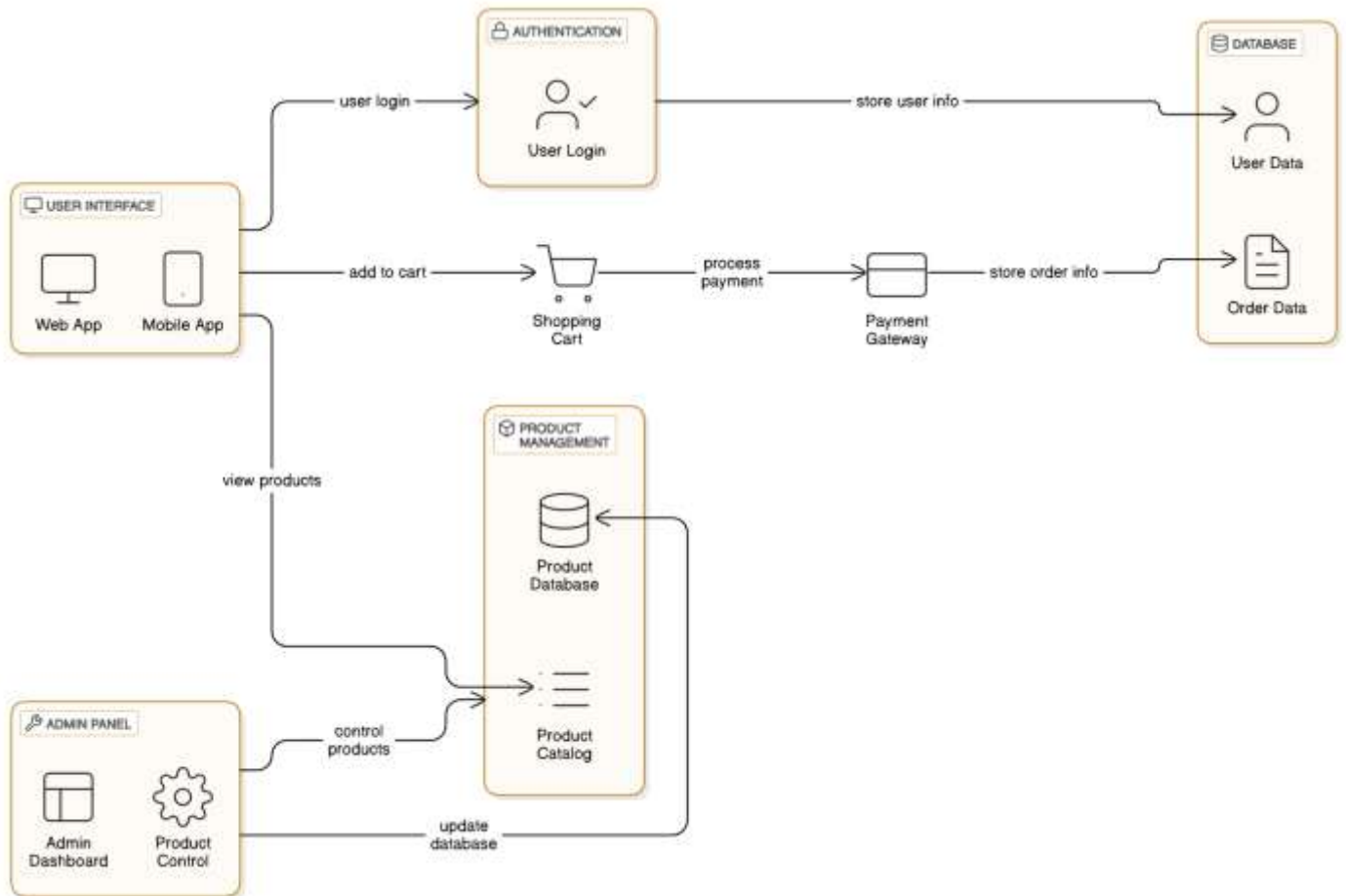
Processor	:	Pentium IV Or Higher
Memory Size	:	128 GB (Minimum)
HDD	:	40 GB (Minimum)

#### **2.2 SOFTWARE SPECIFICATIONS**

Operating System	:	WINDOWS 7 AND PLUS
Front – End	:	HTML, CSS, JAVASCRIPT
Back – End	:	PHP, MYSQL

## CHAPTER 3

### ARCHITECTURE DIAGRAM



## **CHAPTER 4**

### **MODULE DESCRIPTION**

#### **4.1. User Registration and Login Module:**

This module allows users to register and create an account on the website. Users can provide their basic information, such as name, email address, and password, to create an account. After successful registration, users can log in to the website using their name, registered email address and password.

#### **4.2. Product Module:**

Handles the addition, categorization, and management of products. Includes functionalities like product descriptions, pricing, images, stock levels, and filtering/search options for users..

#### **4.3. About Module:**

This module provides basic information about our website, it has all the contents and the creator details.

#### **4.4. Shopping cart module:**

Allows users to add, remove, and modify products in their cart. Supports real-time price updates, discount calculations, and multi-item management.

#### **4.5. Payment gateway module:**

Manages secure payment processing, supporting various payment methods like credit/debit cards, digital wallets, and net banking. Includes encryption and fraud detection mechanisms.

#### **4.6. Admin Dashboard Module:**

The Admin Dashboard module provides the website's admin with complete control over the website's content and user management. The module allows the admin to add products, categories, and brands. The admin can also view products, user details, manage orders, and track the website's performance.

#### **4.7. Customer support module:**

Includes features like chatbots,FAQ's,customer support through calls which enhances the rating of the website because customer support is the most important.

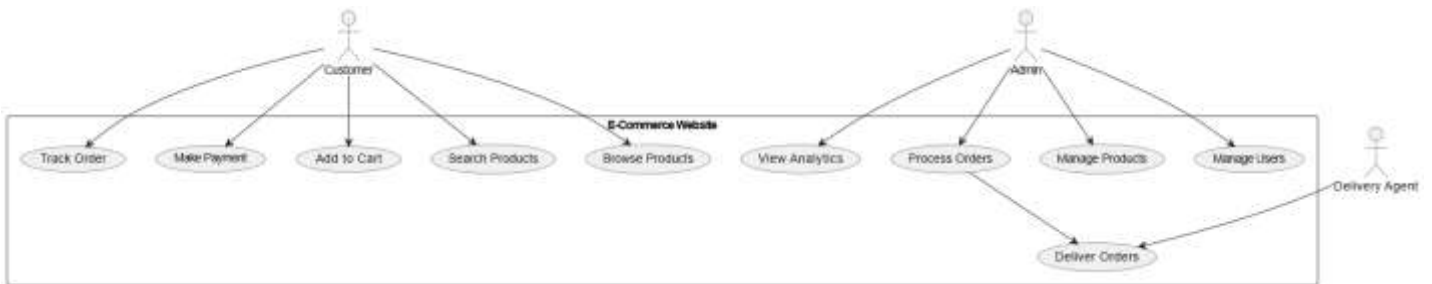
#### **4.8. Review and rating module:**

One of the most important modules in a e-commerce website because it helps the user to interact with other users without actually interacting with them to gain more knowledge about the product which they are going to buy.

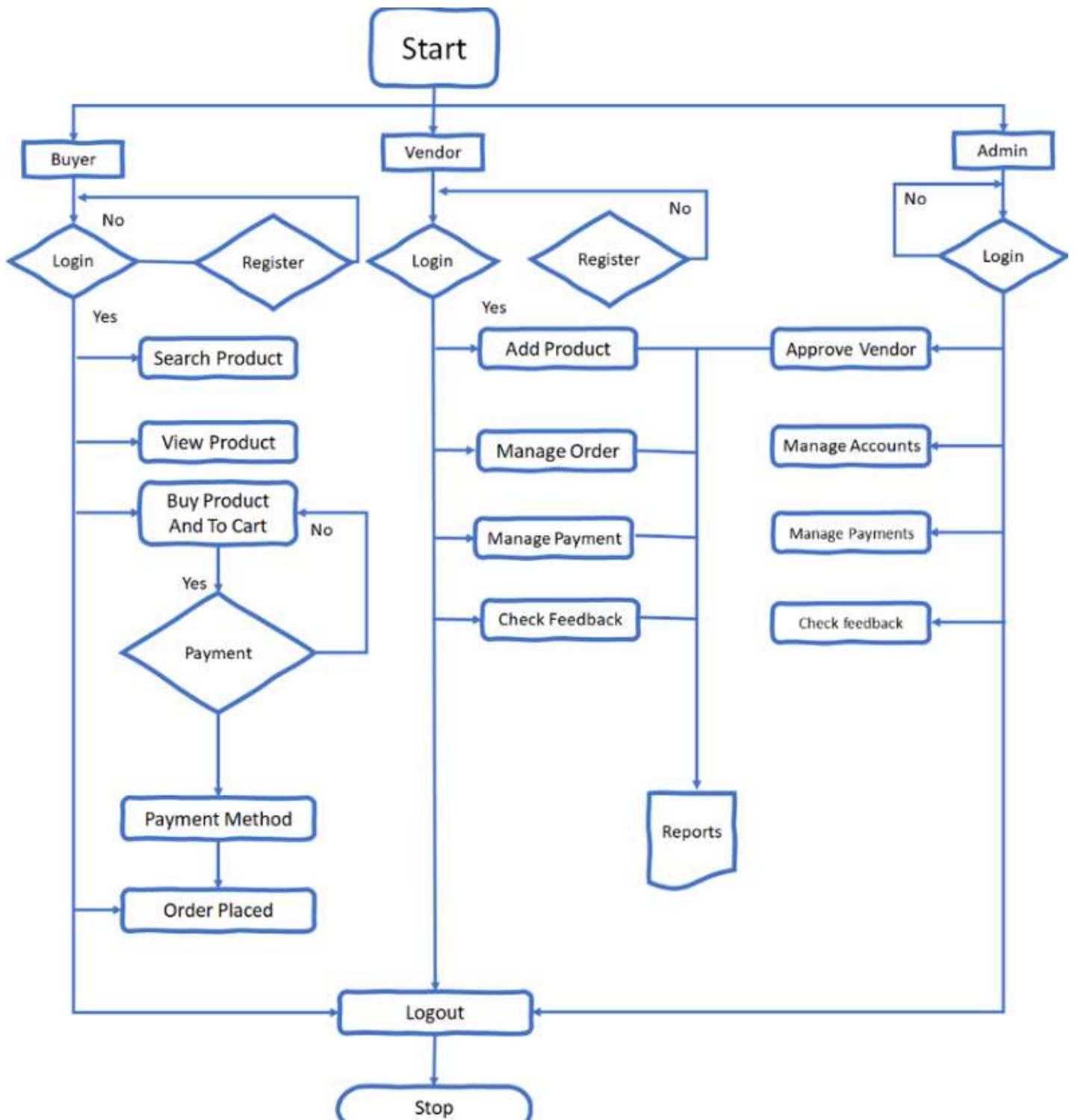
# CHAPTER 5

## SYSTEM DESIGN

### 5.1 USE CASE DIAGRAM



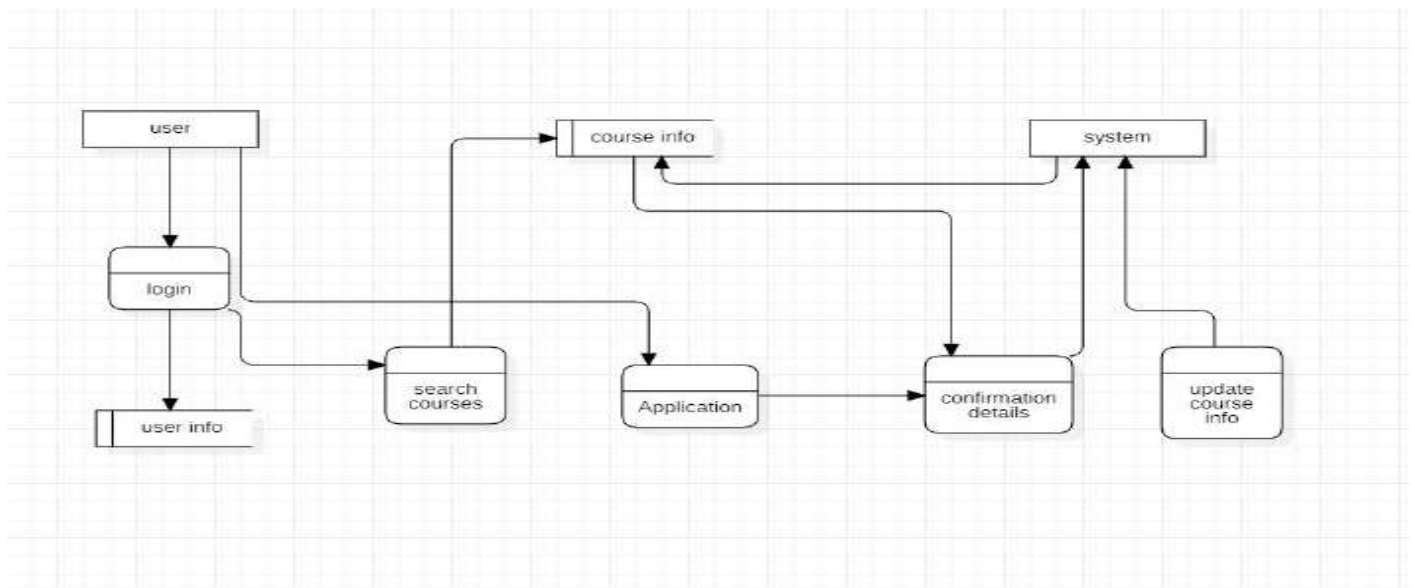
## 5.2 ER DIAGRAM



### 5.3 DFD DIAGRAM



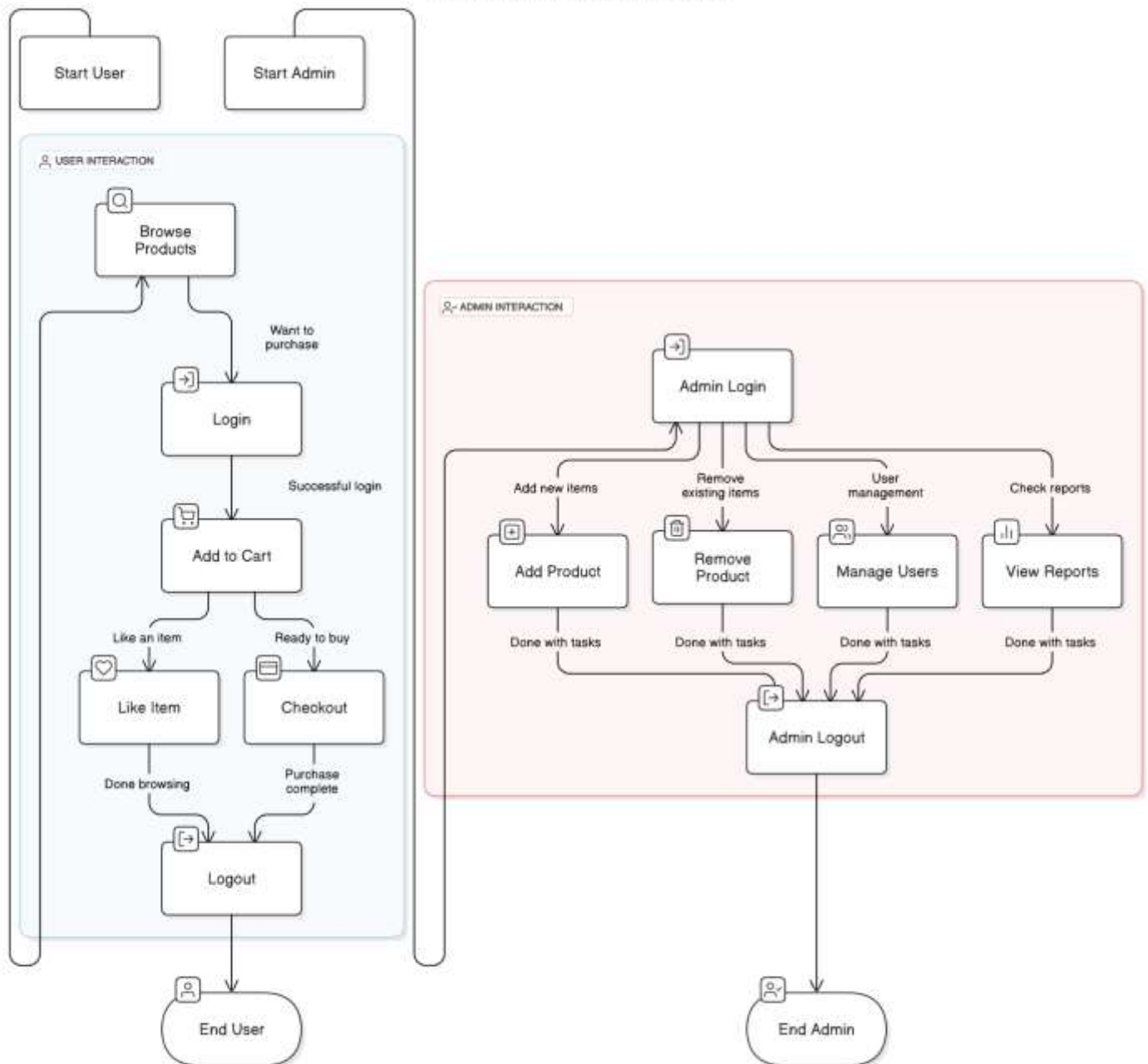
DFD level-0 diagram



DFD Level-1 Diagram

## 5.4 ACTIVITY DIAGRAM

E-commerce Website Flow Chart





## CHAPTER 6

### SAMPLE CODING

#### Index.php

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
?>
<!doctype html>
<html>
<head>
<title>KSA || Home Page</title>
<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0); },
false); function hideURLbar(){ window.scrollTo(0,1); } </script>
<!--bootstrap-->
<link href="css/bootstrap.css" rel="stylesheet" type="text/css" media="all">
<!--coustom css-->
<link href="css/style.css" rel="stylesheet" type="text/css"/>
<!--script-->
<script src="js/jquery-1.11.0.min.js"></script>
<!-- js -->
<script src="js/bootstrap.js"></script>
<!-- /js -->
<!--fonts-->
<link
href="//fonts.googleapis.com/css?family=Open+Sans:300,300italic,400italic,400,600,600italic,700,700italic,80
0,800italic" rel='stylesheet' type='text/css'>
<!--/fonts-->
<!--hover-girds-->
<link rel="stylesheet" type="text/css" href="css/default.css" />
<link rel="stylesheet" type="text/css" href="css/component.css" />
<script src="js/modernizr.custom.js"></script>
<!--/hover-grids-->
<script type="text/javascript" src="js/move-top.js"></script>
<script type="text/javascript" src="js/easing.js"></script>
<!--script-->
<script type="text/javascript">
                jQuery(document).ready(function($) {
                    $(".scroll").click(function(event){
                        event.preventDefault();
                        $('html,body').animate({ scrollTop:$(this.hash).offset().top },900);
                    });
                });
</script>
<!--/script-->
</head>
<body>
<?php include_once('includes/header.php');?>
<div class="banner" style="background-image:url('images/shobi.jpg')">
```

```

<div class="container">
<script src="js/responsiveslides.min.js"></script>
<script>
$(function () {
$("#slider").responsiveSlides({
auto: true,
nav: true,
speed: 500,
namespace: "callbacks",
pager: true,
});
});
</script>
<div class="slider">
<div class="callbacks_container">
<ul class="rslides" id="slider">
<li>
<h3>KSA College of Technology</h3>
<p>Registered Students can Login Here</p>
<div class="readmore">
<a href="user/login.php">Student Login<i class="glyphicon glyphicon-menu-right"> </i></a>
</div>
</li>

</ul>
</div>
</div>
</div>
<div class="welcome">
<div class="container">
<?php
$sql="SELECT * from tblpage where PageType='aboutus'";
$query = $dbh -> prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);

$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $row)
{
?>
<h2><?php echo htmlentities($row->PageTitle);?></h2>
<p><?php echo ($row->PageDescription);?></p><?php $cnt=$cnt+1;}} ?>
</div>
</div>
<!--/welcome-->

<!--testimonials-->
<div class="testimonials">
<div class="container">

```

```

<div class="testimonial-nfo">
    <h3>Public Notices</h3>

    <marquee style="height:350px;" direction="up" onmouseover="this.stop();"
onmouseout="this.start();">
        <?php
$sql="SELECT * from tblpublicnotice";
$query = $dbh -> prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);

$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $row)
{
            ?>

            <a href="view-public-notice.php?viewid=<?php echo htmlentities ($row->ID);?>"
target="_blank" style="color:#fff;">
                <?php echo htmlentities($row->NoticeTitle);?>(<?php echo htmlentities($row->CreationDate);?>)</a>
            <hr /><br />

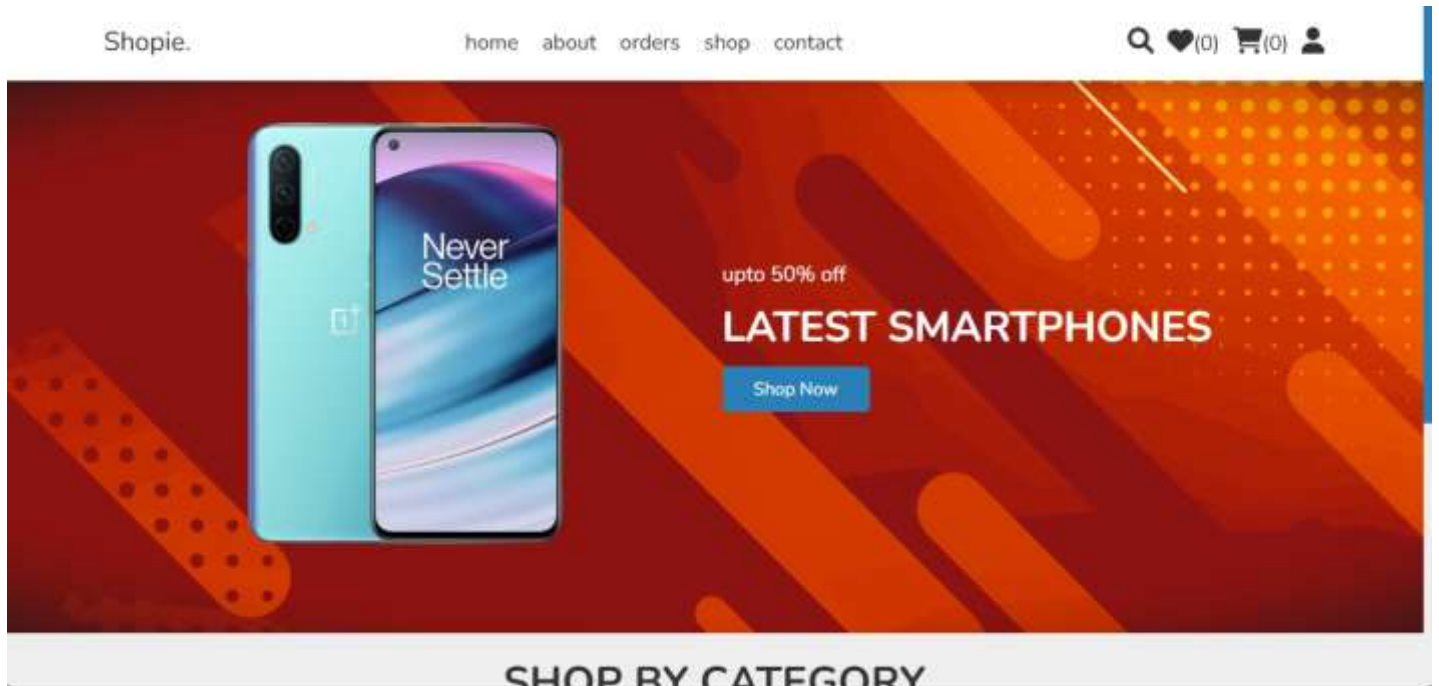
            <?php $cnt=$cnt+1;}} ?>
        </marquee></div>
    </div>
<!--\testimonials-->
<!--specfication-->

<!--/specfication-->
<?php include_once('includes/footer.php');?>
<!--/copy-rights-->
    </body>
</html>

```

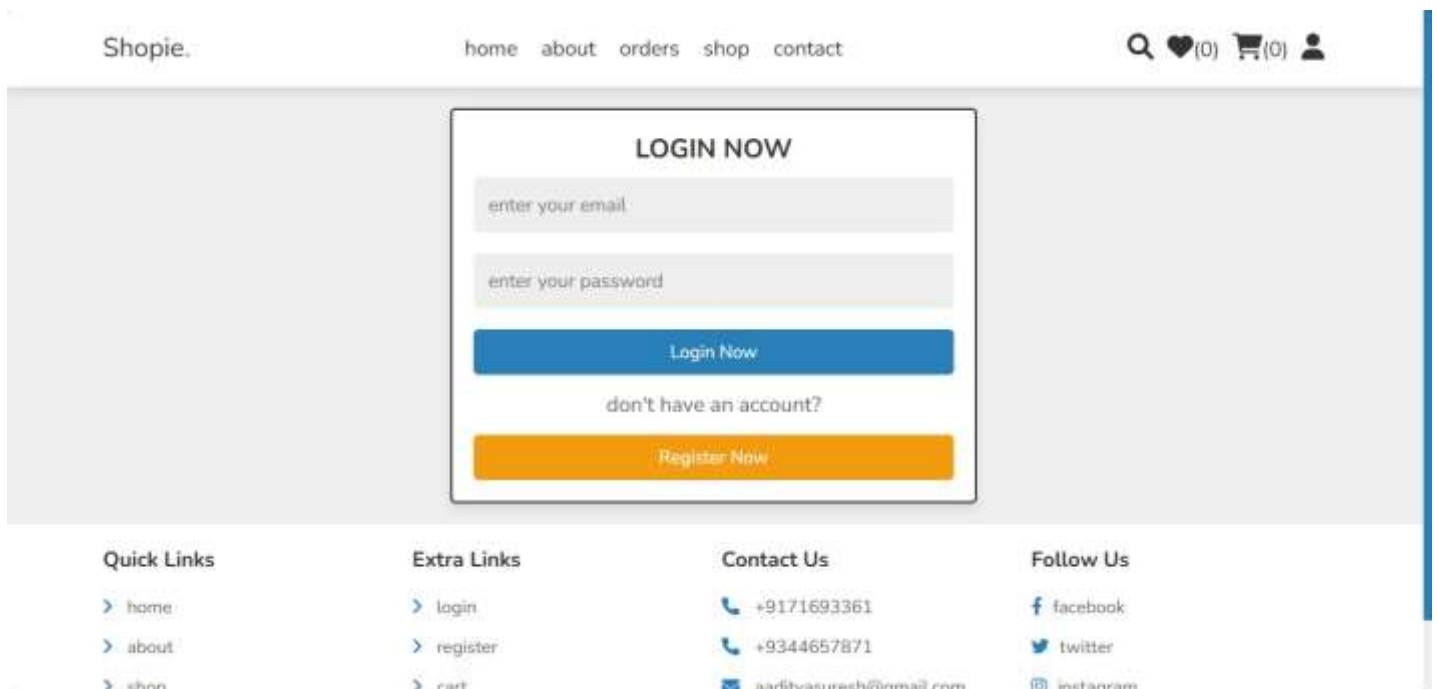
## CHAPTER 7

### SCREEN SHOTS



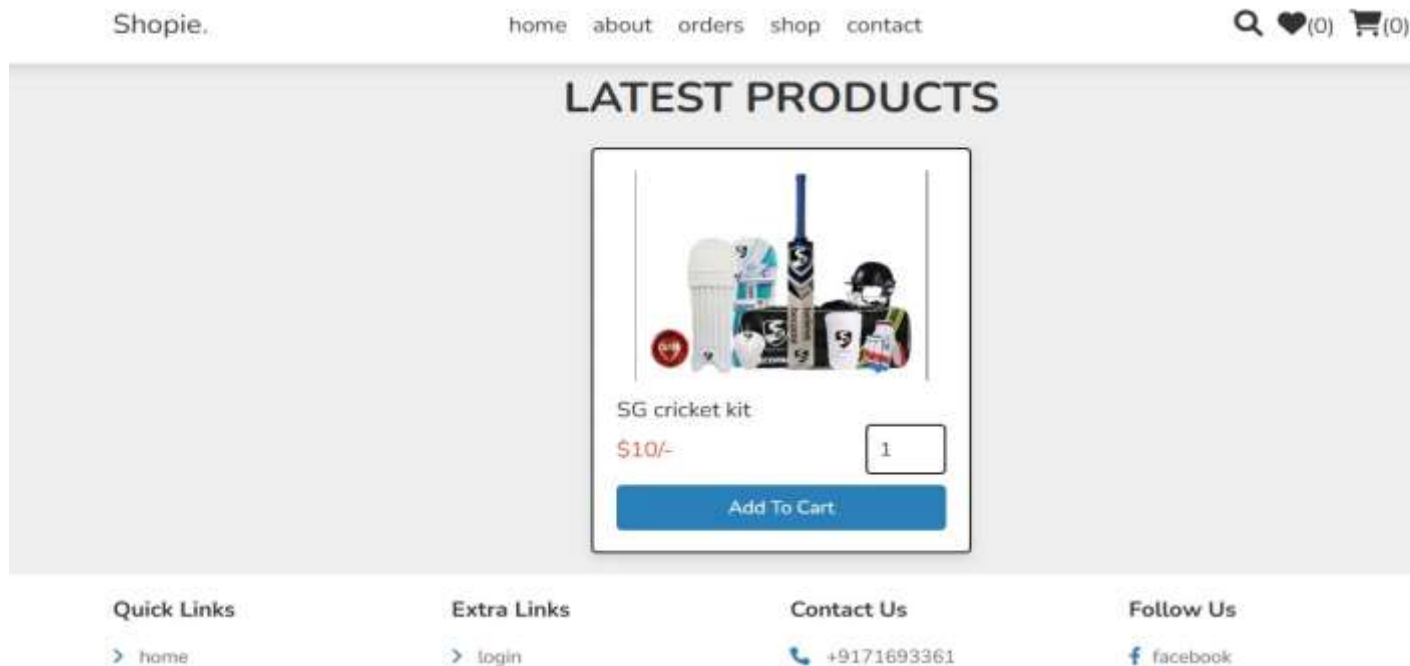
**Fig. 7.1. Home Page**

From this above figure this is the home page where the user can login.



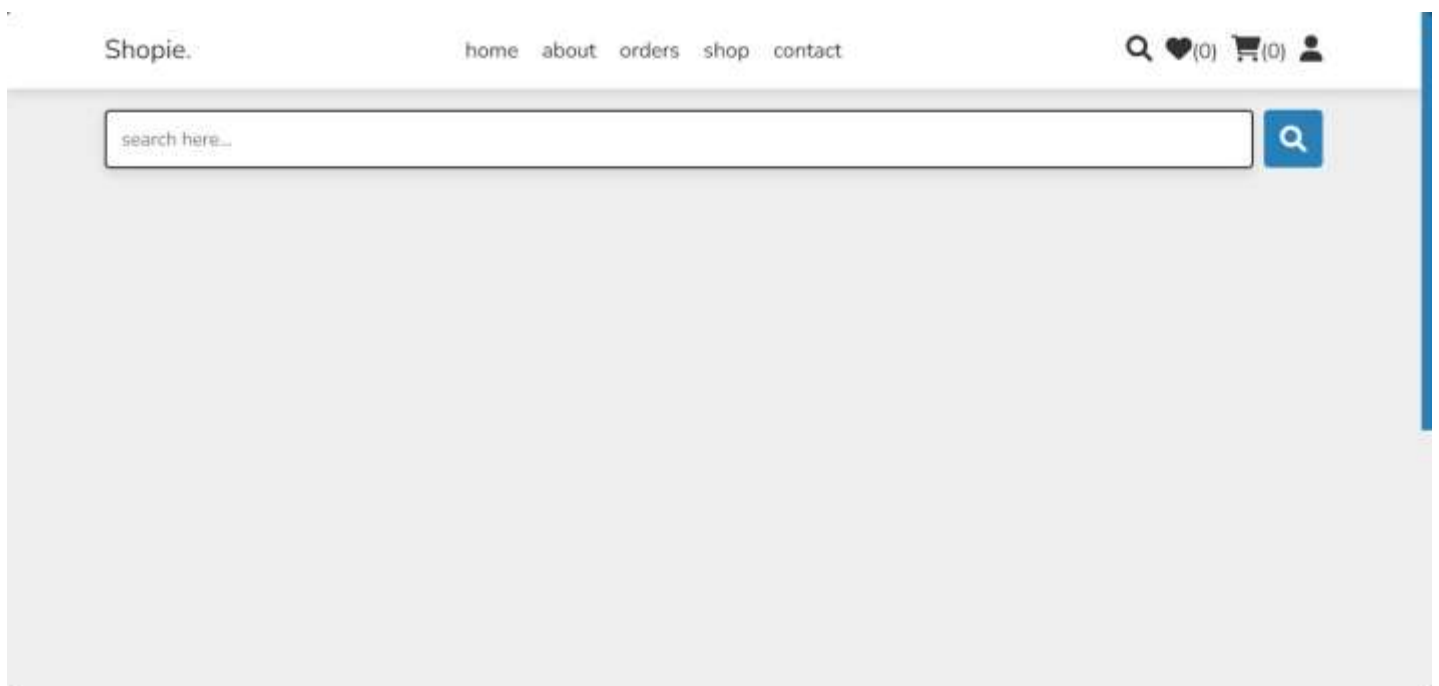
**Fig. 7.2. Login page Section**

From this above figure user can login the page by using their credentials.



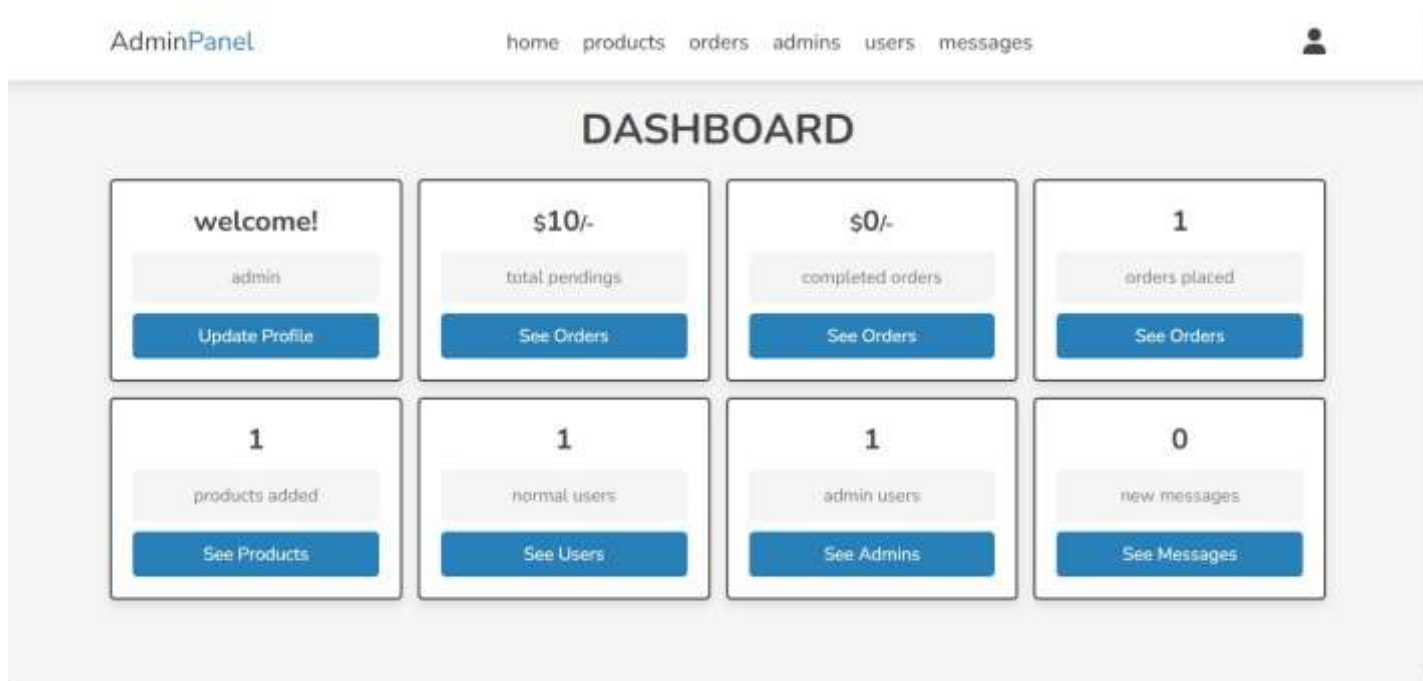
**Fig. 7.3. Products Page**

From this above figure user can see the detailed information about the products.



**Fig. 7.4. Search page**

From this above figure user can search the products.



**Fig. 7.5. Admin panel page**

From this above figure Admin can see the detailed information about the Admin panel.

The image shows the 'ADD PRODUCT' page of the AdminPanel. The navigation bar at the top is identical to the dashboard page. The main heading 'ADD PRODUCT' is centered. Below the heading is a form with several input fields and buttons. The form is organized into two columns. The left column contains: 'product name (required)' with an input field 'enter product name'; 'image 01 (required)' with a 'Choose File' button and 'No file chosen' text; 'image 03 (required)' with a 'Choose File' button and 'No file chosen' text. The right column contains: 'product price (required)' with an input field 'enter product price'; 'image 02 (required)' with a 'Choose File' button and 'No file chosen' text; 'product details (required)' with an input field 'enter product details'. At the bottom of the form is a large blue button labeled 'Add Product'. Below the form, the text 'PRODUCTS ADDED' is partially visible.

**Fig. 7.6. Ass Product page section**

From this above figure admin can add new products and update the website.

## **CHAPTER 8**

### **CONCLUSION**

In conclusion, a college management system is an essential tool for modern educational institutions. It can streamline administrative tasks, improve communication between students and faculty, enhance the learning experience, and provide valuable data for decision-making.

By implementing a college management system, colleges and universities can increase efficiency, reduce costs, and improve overall student satisfaction. With the continuous advancement in technology, it is crucial for educational institutions to adapt to these changes and embrace the benefits they offer.

In the future, college management systems could be enhanced by incorporating artificial intelligence and machine learning algorithms to automate administrative tasks and personalize learning experiences. Additionally, virtual and augmented reality technologies could be integrated to create immersive and engaging learning environments. The system could also incorporate blockchain technology to securely manage student records and credentials. These enhancements would not only improve the efficiency of college management systems, but also enhance the overall student learning experience and prepare them for the technological advancements of the future

## REFERENCES

HTML , CSS , JS – [www.w3schools.com](http://www.w3schools.com)

PHP, MYSQL – [www.youtube.com](http://www.youtube.com)

Product Details– [www.amazon.in](http://www.amazon.in)

Carousel Slider – [www.glidejs.com](http://www.glidejs.com)

Font Awesome Icons – [www.fontawesome.com](http://www.fontawesome.com)

PHP Mailer - <https://github.com/PHPMailer/PHPMailer>

SweetAlert2 - <https://sweetalert2.github.io/v10.html>



