

TECHNOLOGY ENHANCED ONLINE SHOPPING MANAGEMENT SYSTEM USING C# .NET

A minor project report submitted to

**DEPARTMENT OF
COMPUTER DATA SCIENCE AND ENGINEERING**



By

**Ms. M VIJAYA TEJASWINI
Ms. CH MEGHANA
Ms. CH RATHNA KUMARI
Ms. SK RESHMA**

**(Y21CSE098)
(Y21CDS015)
(L22CSE189)
(Y21ECE142)**

Under the Esteemed Guidance of

Er. Y VIJAYA DURGA CHANDRA SEKHAR *(Hons. In IT)*

Founder & Chief Executive Officer, CS CODENZ

**DEPARTMENT OF COMPUTER DATA SCIENCE & ENGINEERING
CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)**

(Approved by A.I.C.T.E, Affiliated To Acharya Nagarjuna University)

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CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

(Approved by A.I.C.T.E, Affiliated To Acharya Nagarjuna University)

CHALAPATHI NAGAR, LAM, GUNTUR

COMPUTER DATA SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Minor Project entitled as **“TECHNOLOGY ENHANCED ONLINE SHOPPING MANAGEMENT SYSTEM USING C# .NET”** submitted by **CHITLA MEGHANA (Y21CDS015)** in partial fulfillment for the award of the Minor Project(.NET Frame Work) is a record of bonafide work carried out under my guidance.

UNDER THE GUIDANCE OF

Er Y V D CHANDRA SEKHAR *Hons. In IT*

Founder & CEO , CS CODENZ

HEAD OF THE DEPARTMENT

K ARUNA KUMARI *MTech (Ph.D)*

Professor & Head , CDS

DECLARATION

I **CHITLA MEGHANA (Y21CDS015)** declared that the dissertation report entitled **“TECHNOLOGY ENHANCED ONLINE SHOPPING MANGEMENT SYSTEM USING C# .NET”** is no more than 1,00,000 words in length including quotes and exclusive of tables, figures, bibliography, and references. This dissertation contains no material that has been submitted previously, in whole or in part, for the award of any other academic degree or diploma. Except where otherwise indicated this dissertation is our own work.

Roll No

Name

Signature

Y21CDS015

CHITLA MEGHANA

Date : 30-03-2024

Place : Lam , Guntur.

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Roll No	Name of the Student
Y21CSE098	M VIJAYA TEJASWINI
Y21CDS015	CH MEGHANA
L22CSE189	CH RATHNA KUMARI
Y21ECE142	SK RESHMA

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ABSTRACT

Analyzing the issues raised in online shopping, first we need to understand the requirements of the system, including user needs, business goals and technical specifications. Detailed design of the system architecture involves how different modules will interact like selecting proper technology, scalability. The development of the system creates awareness among the customers to view or buy the products according to their availability. Development features like editing or adding to the products, Filtering the items, Setting the prices and uploading the product images to get the required product. Implementing the facilities for the customers to browse the products, add items in their shopping cart, place the order by selecting online or offline mode of payment securely. Conduct comprehensive test of the system to identify and fix the bugs to ensure functionality, that meets the needed requirements. To provide the ongoing maintenance and support for system including monitoring the system for security updates, fixing bugs to avoid challenges, adding new features as needed providing technical support of the users.

PROBLEM STATEMENT

The problem statement for the TECHNOLOGY ENHANCED ONLINE SHOPPING MANAGEMNT SYSTEM some of them are: The main issue faced by customers is the Security Attacks. To overcome this problem, we need a strong password(qtwe@123). Most of the customers are facing payment issues, it can be resolved by providing Modes of payment like GPay, PhonePe and other Net banking. We provide customer service and Help Line Center to overcome technical issues. By providing the facilities like Refund and Exchange methods which satisfies the customer with the product and overcomes with the product and overcomes the issues like damage, poor quality and so on.

FEASIBILITY STUDY

The aim of the project for TECHNOLOGY ENHANCED ONLINE SHOPPING MANAGEMENT SYSTEM is to create a platform which contacts technology to streamline and enhance different aspects of online shopping experience for both customers and retailers. The way people shop with online becoming increasingly popular due to its convenience and access.

In addition to this business have developed online shopping management systems to refine the shopping experience for customers and optimize Operations for retailers. Online shopping is also known as e-commerce, which gave a Great impact on people buying goods and services. It refers to the products over the Impact based on the customer's comfort wherever they have internet access.

The process of online shopping involves visiting an e-commerce web page or app browsing app browsing through various products, adding desired items to the cart. Payment is made through online secure payment gateways, which includes credit or debit cards, digital wallets or the other types of Net Banking. Totally, online shopping has become a retail landscape offering unparalleled convenience.

Here, we listed some of the features of the system i.e., The system provides a interface for customers to browse products, add products to their carts, make purchases and track orders. By applying few methods based on algorithms and Data Analytics, the system offers few recommendations on products based on last purchases, browsing history and useful information. Secure payment gateways ensure the safe type transactions using integration and enhancing customers trust and confidence. Real-time tracking and management facilities enable retailers to monitor stock levels, updating of product list and prevention of product overselling.

By using Automated processes, enabling retailers to operate efficiently and cost Effectively. The system generates valuable data according to the browsing history of the consumer, preferences and trends authorize retailers to make decisions and optimize marketing strategies. Analyze customer feedback to understand how it makes difference with income and Identify improvement areas. Compares the income performance by competitors to and make source to the profitable areas. Summarize findings and provide actionable insights to optimize income and improve business performance.

CHAPTER 1

1. INTRODUCTION

Purchasing through internet is the most growing form of shopping and with growth in sales rate and it out spaces buying via different applications. According to the research report in 2000 there were \$48.3 billion internet sales consumers. And it is represented annual growth rate of 45.9%. These figures show impressive growth rates in sales.

Consumers use internet frequently and search online shopping websites the product information. According to the report, almost 72% consumers search internet for products once per month. This high level of online search activity should convert into actual purchase of products and services. Hence there exist a huge opportunity for consumers to shop online, if their needs are fully satisfied. Online shopping has become the most preferred alternative for consumers in this IT world, because traditional shopping is usually attributed with crowd, limited times, anxious, traffic jam, parking space shortage problem and etc.,

In India, online shopping is still considered as a new media for shopping between retailers and consumers and hence e-retailers are facing issues in retaining consumers. This study focuses consumer purchase intensions towards online shopping and explore the factors responsible for making purchase decisions. Consequently this study expects to engage more number of consumers to shop online.

CHAPTER 2

2. MOTIVATION & OBJECTIVE

The motivation and main objective of the TECHNOLOGY ENHANCED ONLINE SHOPPING MANAGEMENT SYSTEM are mentioned below:

2.1 MOTIVATION

Online shopping using C#, .NET can deliver fast response time and smooth user experiences, ensuring that customers can browse, search, and purchase products quickly and effortlessly. It connects with management systems, payment gateways, shipping providers etc.. to enhance the efficiency.

2.2 OBJECTIVE

- To investigate the shopping features of the customers and their purchase intentions.
- To find the major factors responsible for the consumers purchase intentions.
- To enable the customer to shop from anywhere, anytime.
- To provide a seamless and enjoyable shopping experience via online.
- To ensure the website or app is user friendly and accessible to all users.

CHAPTER 3

3 SOFTWARE & HARDWARE REQUIREMENTS

3.1 SOFTWARE REQUIREMENTS

Operating System	: Windows
Programming Language	: C#
Modules Required	: .NET Framework
Modules	: Own Modules created by the programmer for the based on the management system to develop both Window and Web Applications, Here it is a Console Application.
IDE's	: Visual Studio – 2022

3.2 HARDWARE REQUIREMENTS

Processor	: 11 th Gen Intel(R) core (TM) i5-1155G7@ 2.50GH
RAM	: 8.00GB
Version	: 22H2

CHAPTER 4

4 LITERATURE SURVEY

4.1 Literature Survey 1

Name : Karyanni

Title : Digital Shopping Dynamics

About : Compatibility and Convenience are successful distinguisher between online shoppers and traditional shoppers.

4.2 Literature Survey 2

Name : Cronin

Title : Quality Quotient

About : Quality of product as the distinguished characteristics of product or service that make different from the competitor's product or services.

4.3 Literature Survey 3

Name : Forrester Research

Title : Beyond Routine

About : In spite of regular internet usages, online shoppers are growing in a faster way.

CHAPTER 5

KEYWORDS & DEFINITIONS

5.1 KEYWORDS

5.1.1 Payment Gateway

5.1.2 E-Commerce

5.1.3 Net Banking

5.1.4 Convenience

5.1.5 Marketing Strategies

5.1.6 Shopping Cart

5.1.7 E-Retail

5.1.8 Smooth User Experience

5.1.9 Attitude

5.1.10 Password and Security

5.2 DEFINITIONS

5.2.1 Payment Gateway - A Payment Gateway is a technology platform that acts as an intermediary in electronic financial transactions (i.e., both online and offline).

5.2.2 E-Commerce – Electronic Commerce is the buying and selling of products, services and information via electronic networks including the Internet.

5.2.3 Net Banking – It is also known as Internet Banking, is a digital method to conduct banking transactions by the means of Internet.

5.2.4 Convenience – It refers to the state of being easy to use, suitable, or readily accessible.

5.2.5 Marketing Strategies – It involves resources for digital channels and techniques to attract, engage, and retain customers.

5.2.6 Shopping Cart – It tends to say that users can add products while browsing the website, adjust quantities or remove items as needed and proceed to checkout when ready to purchase.

5.2.7 Smooth User Experience – People to find what they need, buy it quickly, and feel good about the whole process without any confusion.

5.2.8 Attitude – It refers to the customer feelings, opinions and perceptions towards the online shopping experience, including their preferences, satisfaction levels, trust in the platform, ease of use and overall perception of the service provided by the online store.

5.2.9 Privacy and Security – Privacy in online shopping refers to the protection of personal information and data of users. It involves ensuring that this sensitive information is not misused. Security, on the other hand, related to safeguarding various threats such as hacking, malware... It involves implementing measures such as encryption, firewalls, secure payments to prevent unauthorized access, data theft, and other cyber attacks.

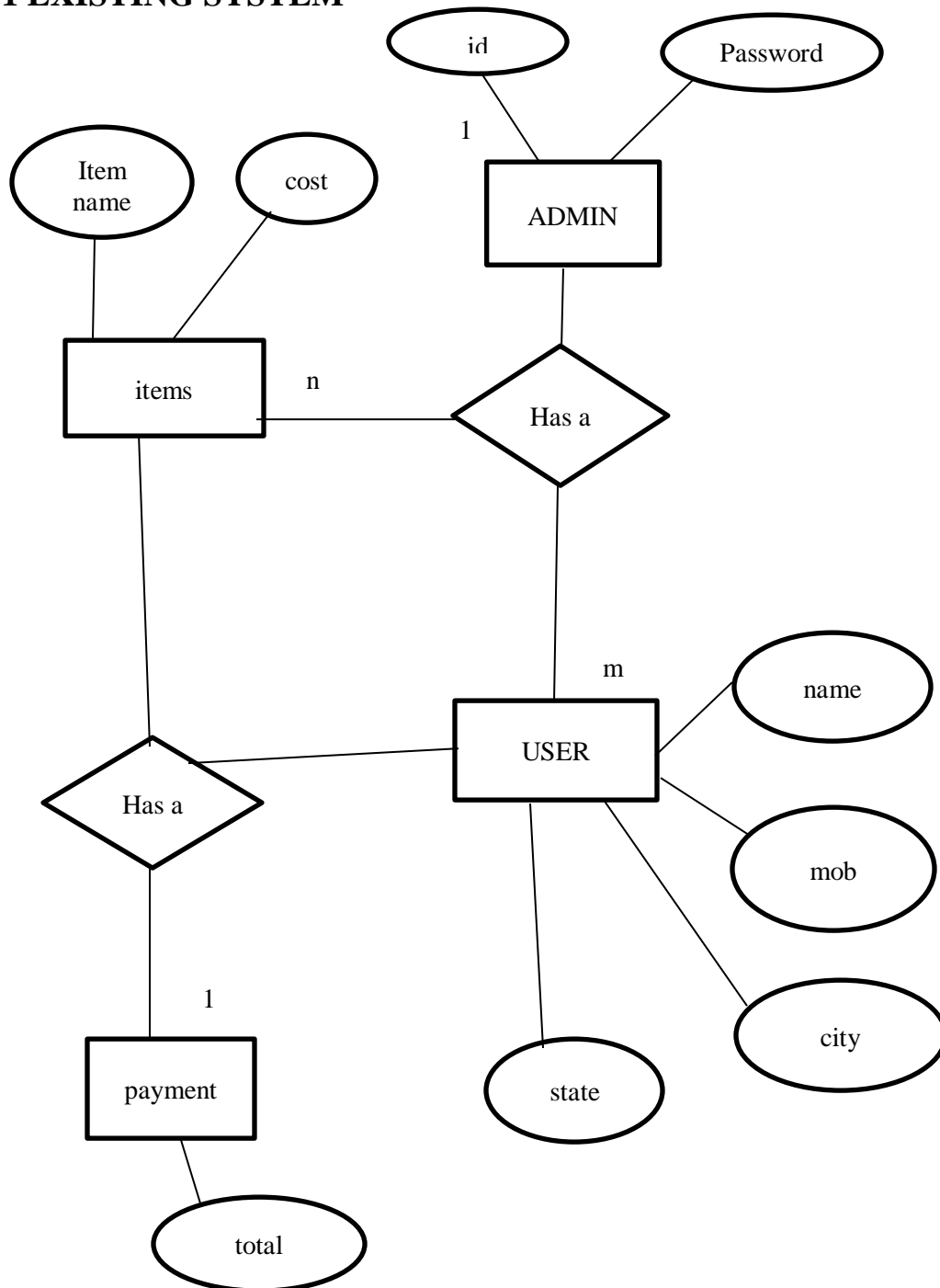
5.2.10 E-Retail – It refers to the sale of goods or services through the internet. It is a subset of E-Commerce and specifically focuses on online transactions conducted between Business and Consumers (B2C).

CHAPTER 6

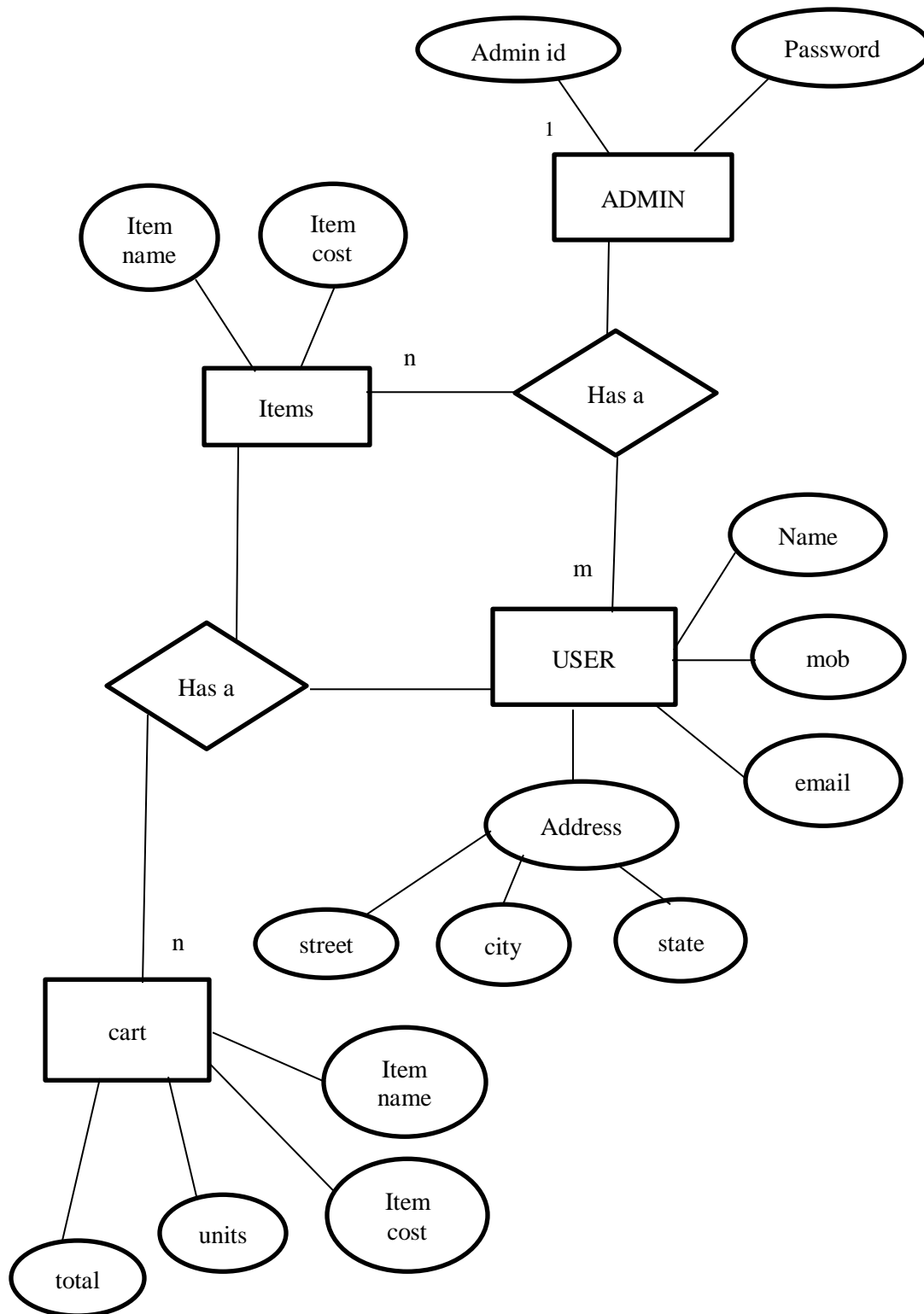
DESIGNING

System architecture and Functional design for Online Shopping Management Sysyem.

6.1 EXISTING SYSTEM



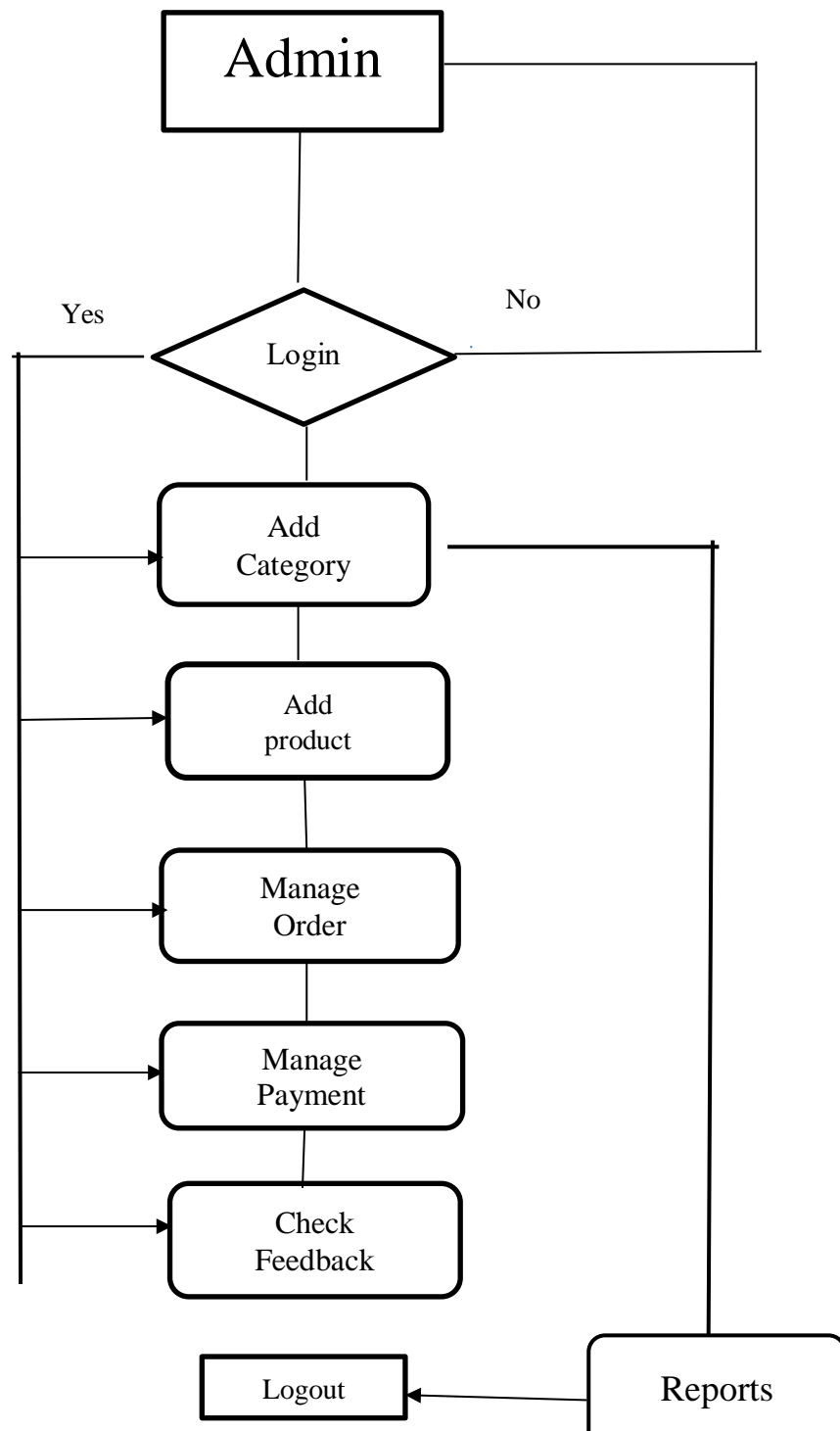
6.2 PROPOSED SYSTEM



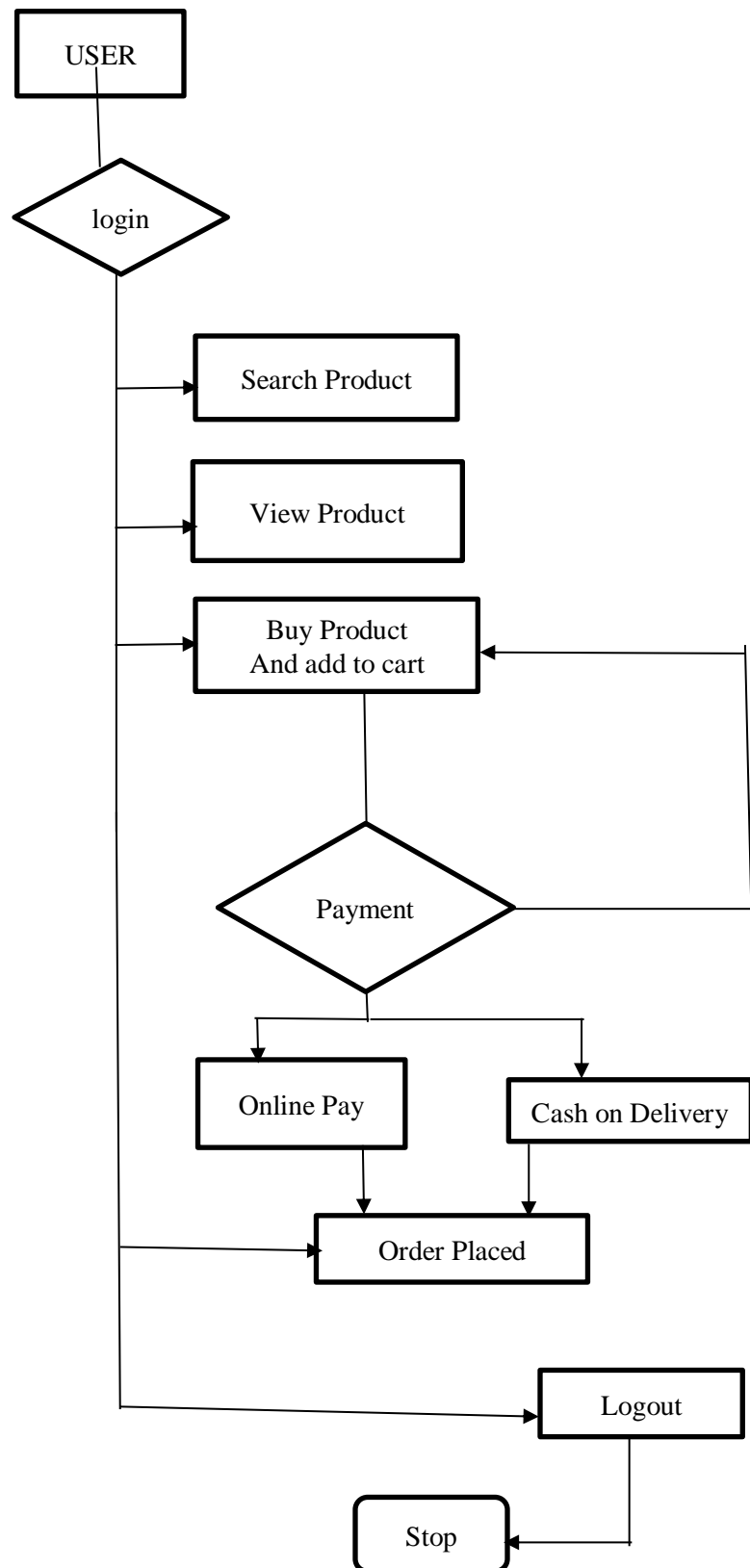
CHAPTER 7

MODULES

7.1 ADMIN MODULE



7.2 USER MODULE



CHAPTER 8

METHODOLOGY

C# is a modern, object-oriented, and type safe programming language. It is used to develop ADO, ASP Applications. It enables developers to build many types of secure and robust applications that run in .NET. C# has its roots in the C family of languages and directly related to C, C++, Java and JavaScript programmers.

From C, the Syntax, Keywords and Operators are inherited. From C++, it gets the Object Oriented Programming mechanism. From Java, it inherited the security aspects and portable code generation. C# is used as primary language for .NET Framework which offers a friendly environment to the user. Several C# features help to create robust and durable applications.

C# was created by Microsoft as a part of overall .NET strategy. C# offered cross-language interoperability which was not present in Java. And some of the C# features are Simple and Object Oriented Programming language, Interoperability, Scalable and Updateable, Structured Programming, Rich Library, Fast speed, Type safe.

We can find help system in C#. Help System is a group of libraries of entire .NET Framework. If you need any assistance, it directly proceed with the Help System. We can find Help System in the Menu Bar. Click on it and choose view help. In view od adding new feature instead of help menu we can access the help document with Microsoft Development Network (MDN).

CHAPTER 9

CODING

9.1 ADMIN BLOCK

```
List<int> a9 = new List<int>();
Console.ForegroundColor = ConsoleColor.Yellow;
Console.WriteLine("-----WELCOME TO ONLINE SHOPPING-----");
Console.WriteLine();
Console.ForegroundColor = ConsoleColor.Magenta;
Y: Console.WriteLine("        Choose the Login type");
Console.WriteLine("        1. ADMIN");
Console.WriteLine("        2. USER");
a = Convert.ToInt32(Console.ReadLine());
Console.Clear();
if (a == 1)
{
    Console.ForegroundColor = ConsoleColor.Green;
    Console.WriteLine("        WELCOME TO ADMIN PAGE  ");
    Console.WriteLine();
    Console.ForegroundColor = ConsoleColor.Red;
    Console.WriteLine("        ADMIN Login ID : ADMIN");
    Console.WriteLine("        ADMIN Password : ADMIN");
    Console.WriteLine();
    Console.ForegroundColor = ConsoleColor.Cyan;
    Console.WriteLine("        Do you want to reset Admin password");
    Console.WriteLine("        1. Yes");
    Console.WriteLine("        2. No");
    a2 = Convert.ToInt32(Console.ReadLine());
    Console.Clear();
    if (a2 == 1)
    {
        Console.WriteLine();
        Console.ForegroundColor = ConsoleColor.Blue;
        B: Console.Write("Enter you New password (8 characters Only) : ");
        a3 = Console.ReadLine();
        Console.Clear();
        if (a3.Length > 8)
        {
            Console.WriteLine();
            Console.ForegroundColor = ConsoleColor.Red;
            Console.WriteLine("Entered password is not in specified format!Please try again ");
            Console.Clear();
            goto B;
        }
        else
        {
            Console.WriteLine("Admin Password updated Successfully..");
        }
    }
}
```

```

        a1 = a3;
    }
    Console.WriteLine();
    Console.ForegroundColor = ConsoleColor.Red;
    Console.WriteLine("        WELCOME TO LOGIN PAGE");
    Console.ForegroundColor = ConsoleColor.Green;
    Console.WriteLine();
C: Console.WriteLine("        ADMIN Login ID : ADMIN");
    Console.Write("        ADMIN Password : ");
    a4 = Console.ReadLine();
    Console.Clear();
    if (a4 == a1)
    {
        Console.WriteLine();
        Console.ForegroundColor = ConsoleColor.Red;
        Console.WriteLine("        WELCOME TO ADMIN DASHBOARD");
    }
    else
    {
        Console.WriteLine("Password is Incoorect!Please tryagain");
        goto C;
    }
    Console.WriteLine();
    Console.ForegroundColor = ConsoleColor.Green;
    Console.WriteLine("        Do You want to add items");
    Console.WriteLine("        1. Yes");
    Console.WriteLine("        2. No");
    a5 = Convert.ToInt32(Console.ReadLine());
    Console.Clear();
    if (a5 == 1)
    {
        Console.WriteLine();

        Console.ForegroundColor = ConsoleColor.Green;
        Console.WriteLine("Enter number of items to be added");
        b = Convert.ToInt32(Console.ReadLine());
        Console.Clear();
        for (int i = 1; i <= b; i++)
        {
            Console.WriteLine();
            Console.ForegroundColor = ConsoleColor.DarkCyan;
            Console.WriteLine("Enter the name of the " + i + " item");
            d3[i] = Console.ReadLine();
            Console.WriteLine("Enter the Cost of the " + i + " item");
            d4[i] = Convert.ToInt32(Console.ReadLine());
        }
        Console.Clear();
        Console.WriteLine();
        Console.ForegroundColor = ConsoleColor.Magenta;
        Console.WriteLine("Name of the item" + "        " + "Cost of the item");
    }

```

```
for (int i = 1; i <= b; i++)
{
    Console.WriteLine("    " + d3[i] + "        " + d4[i]);
}

goto Y;
}

}
```


9.2 USER BLOCK

```
if(a2==2)
{
    Console.WriteLine("WELCOME TO ADMIN LOGIN");
    Console.WriteLine("ADMIN LOGIN:ADMIN");
    Console . WriteLine("ADMIN PASSWORD:ADMIN");
    Console.WriteLine("    Do You want to add items");
    Console.WriteLine("        1. Yes");
    Console.WriteLine("        2. No");
    a5 = Convert.ToInt32(Console.ReadLine());
    Console.Clear();
    if (a5 == 1)
    {
        Console.WriteLine();

        Console.ForegroundColor = ConsoleColor.Green;
        Console.WriteLine("Enter number of items to be added");
        b = Convert.ToInt32(Console.ReadLine());
        for (int i = 1; i <= b; i++)
        {
            Console.WriteLine();
            Console.ForegroundColor = ConsoleColor.DarkCyan;
            Console.WriteLine("Enter the name of the " + i + " item");
            d3[i] = Console.ReadLine();
            Console.WriteLine("Enter the Cost of the " + i + " item");
            d4[i] = Convert.ToInt32(Console.ReadLine());
        }
        Console.Clear();
        Console.WriteLine();
        Console.ForegroundColor = ConsoleColor.Magenta;
        Console.WriteLine("Name of the item" + "        " + "Cost of the item");
        for (int i = 1; i <= b; i++)
        {
            Console.WriteLine("    " + d3[i] + "        " + d4[i]);

        }

        goto Y;
    }
}

}
}
if (a == 2)
{
```

```

Console.WriteLine("Name of the item" + "          " + "Cost of the item");
Console.ForegroundColor = ConsoleColor.DarkGray;

for (int i = 1; i <= b; i++)
{
    Console.WriteLine("    " + d3[i] + "          " + d4[i]);

}
Console.WriteLine("Enter how many items you need to add in your cart");
a12 = Convert.ToInt32(Console.ReadLine());
if (a12 != 0)
{
    int[] a16 = new int[a12];
    for (int i = 0; a16.Length > i; i++)
    {
        Console.WriteLine("please enter the number you want to add the item in your
cart(index number):");
        a16[i] = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter how many units you need");
        a14 = Convert.ToInt32(Console.ReadLine());
        a9.Add(a14);
    }
    Console.Clear();
    Console.WriteLine("CART");
    Console.WriteLine("NAME OF THE ITEM" + "          " + "UNITS" + "
" + "COST OF THE ITEM");
    for (int i = 0; a16.Length > i; i++)
    {
        Console.WriteLine(d3[a16[i]] + "          " + a9[i] + "
" + d4[a16[i]]);
    }
    O: Console.WriteLine("Do You want to continue shopping");
    Console.WriteLine("1.Yes");
    Console.WriteLine("2.No");
    a12 = Convert.ToInt32(Console.ReadLine());
    if (a12 == 1)
    {
        Console.WriteLine("Name of the item" + "          " + "Cost of the item");
        Console.ForegroundColor = ConsoleColor.DarkGray;

        for (int i = 1; i <= b; i++)
        {
            Console.WriteLine("    " + d3[i] + "          " + d4[i]);

        }
        Console.WriteLine("Enter number of items to be added");
        a20=Convert.ToInt32(Console.ReadLine());
        int[] c10 = new int[a20];
        for(int i=0;c10.Length>i;i++)
        {

```

```

        Console.WriteLine("please enter the number you want to add the item in your
cart:");
        a16[i] = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter how many units you need");
        a14 = Convert.ToInt32(Console.ReadLine());
        a9.Add(a14);
    }
    Console.WriteLine("NAME OF THE ITEM" + "                " + "UNITS" + "
" + "COST OF THE ITEM");
    for (int i = 0; c10.Length > i; i++)
    {
        Console.WriteLine(d3[c10[i]] + "                " + a9[i] + "                " +
d4[c10[i]]);
    }

    Console.Clear();

    Console.ForegroundColor = ConsoleColor.DarkCyan;
    for (int i = 0; c10.Length > i; i++)
    {
        int m, o;
        string n;
        m = d4[a16[i]];
        n = d3[a16[i]];
        o = a9[i];
        total1 = total1 + (m * o);

        Console.WriteLine(n + "                " + o + "                " + m);
    }

    double gsta;
    gsta = (total1 * 18) / 100;
    gst1= total1 + gsta;

    goto O;

}
if (a12 == 2)
{
    Console.WriteLine("Are you ready for billing");
    Console.WriteLine("1.Yes");
    Console.WriteLine("2.No");
    a10 = Convert.ToInt32(Console.ReadLine());
    Console.Clear();
    if (a10 == 1)
    {
        string name, email, str, lan, ci, st, cu, us, p, mob, u1, p1;
        int pin;
        Console.WriteLine();

```

```

    Console.ForegroundColor = ConsoleColor.DarkGreen;
    Console.Write("Name    :");
    Console.WriteLine();
    name = Console.ReadLine();
V: Console.Write("Contact no :");
    Console.WriteLine();
    mob = Console.ReadLine();
    Regex x = new Regex(pattern);
    Console.ForegroundColor = ConsoleColor.Red;
    if (x.IsMatch(mob.ToString()))
    {
        Console.WriteLine("String matched");
    }
    else
    {
        Console.WriteLine("String not matched");
        goto V;
    }

    Console.ForegroundColor = ConsoleColor.DarkGreen;
    Console.WriteLine();
N1: Console.Write("Mail Id  :");

    email = Console.ReadLine();
    Regex x1 = new Regex(pattern1);
    Console.ForegroundColor = ConsoleColor.Red;
    if (x1.IsMatch(email))
    {
        Console.WriteLine();
        Console.WriteLine("Entered email is in correct format");
    }
    else
    {
        Console.WriteLine("Entered Email is not in Correct format!Please try again");
        goto N1;
    }

    Console.ForegroundColor = ConsoleColor.DarkGreen;
    Console.WriteLine();
    Console.WriteLine("Address:");
    Console.WriteLine();
    Console.Write("Street name :");
    str = Console.ReadLine();
    Console.WriteLine();
    Console.Write("Land mark :");
    lan = Console.ReadLine();
    Console.WriteLine();
    Console.Write("City    :");
    ci = Console.ReadLine();
    Console.WriteLine();
N4: Console.Write("Pincode  :");

```

```

pin = Convert.ToInt32(Console.ReadLine());
Console.WriteLine();
Console.ForegroundColor = ConsoleColor.Red;
if (pin.ToString().Length > 7)
{
    Console.WriteLine("Enter the pin code correctly...");
    goto N4;
}
Console.ForegroundColor = ConsoleColor.DarkGreen;

Console.Write("State  :");
st = Console.ReadLine();
Console.Write("Country : ");
cu = Console.ReadLine();
N2: Console.Write("User Id :");
us = Console.ReadLine();
Console.ForegroundColor = ConsoleColor.Red;
if (us.Length > 9)
{
    Console.WriteLine("Please Specify Only 8 characters");
    goto N2;
}
Console.ForegroundColor = ConsoleColor.DarkGreen;
N3: Console.Write("User Password :");
p = Console.ReadLine();
Console.ForegroundColor = ConsoleColor.Red;
if (p.Length > 8)
{
    Console.WriteLine("Enter password in specified format");
    goto N3;
}

Console.Clear();
Console.ForegroundColor = ConsoleColor.Magenta;
Console.WriteLine("WELCOME TO USER LOGIN FORM");
Console.Write("USER ID      : ");
u1 = Console.ReadLine();
Console.WriteLine("PASSWORD  :");
p1 = Console.ReadLine();
Console.ForegroundColor = ConsoleColor.Green;
if (u1 == us && p1 == p)
{
    Console.WriteLine("Logged in Successfully");
    Console.ForegroundColor = ConsoleColor.Magenta;
    Console.WriteLine("Name of the item" + "          " + "Units " + "
" + "Cost of the item");
    double total = 0;
    Console.ForegroundColor = ConsoleColor.DarkCyan;

```

```

        for (int i = 0; a16.Length > i; i++)
        {
            int m, o;
            string n;
            m = d4[a16[i]];
            n = d3[a16[i]];
            o = a9[i];
            total = total + (m * o);

            Console.WriteLine(n + "                " + o + "                " +
m);
        }

        double gsta, gst;
        gsta = (total * 18) / 100;
        gst = total + gsta+gst1;

        Console.WriteLine("=====
=====
=====");
        Console.WriteLine();
        Console.ForegroundColor = ConsoleColor.Yellow;
        Console.WriteLine("_ BILLING_");
        Console.WriteLine("Name : " + name);
        Console.WriteLine("Contact number" + mob);
        Console.WriteLine("NAME OF THE ITEM" + "                " + "UNITS" + "
" + "COST OF THE ITEM");
        for (int i = 0; a16.Length > i; i++)
        {
            int m, o;
            string n;
            m = d4[a16[i]];
            n = d3[a16[i]];
            o = a9[i];

            Console.WriteLine(n + "                " + o + "                " +
m);
        }
        Console.WriteLine("-----
-----");
        Console.WriteLine("Total:" + "                " + total);
        Console.WriteLine("-----
-----");
        Console.WriteLine("GST: 18%");
        Console.WriteLine("-----
-----");
        Console.WriteLine("Total Bill:" + "                " + gst);

```

```

    }

}
if(a10==2)
{
    Console.WriteLine();
    Console.ForegroundColor = ConsoleColor.Yellow;
P: Console.WriteLine("  Do You want to remove any item in the cart");
    Console.WriteLine("          1. Yes");
    Console.WriteLine("          2. No");
    a12 = Convert.ToInt32(Console.ReadLine());
    if (a12 == 1)
    {
        for (int i = 0; a16.Length > i; i++)
        {
            Console.WriteLine(d3[a16[i]] + "          " + a9[i] + "
" + d4[a16[i]]);
        }
        Console.WriteLine();
        Console.ForegroundColor = ConsoleColor.Blue;
        Console.WriteLine("Enter how many items to be removed");
        a14 = Convert.ToInt32(Console.ReadLine());
        if (a14 >= 0 && a14 < a16.Length)
        {
            a16 = a16.Where((val, idx) => idx != a14).ToArray();
            a9.RemoveAt(a14);
            Console.WriteLine("Item removed from cart Successfully");

        }
        else
        {
            Console.WriteLine("Invalid Item Index!Please.Try again");

        }
        for (int i = 0; a16.Length > i; i++)
        {
            Console.WriteLine(d3[a16[i]] + "          " + a9[i] + "          " +
d4[a16[i]]);
        }
        goto P;
    }
}
if(a12==2)
{
    string name, email, str, lan, ci, st, cu, us, p, mob, u1, p1;
    int pin;
    Console.WriteLine();
    Console.ForegroundColor = ConsoleColor.DarkGreen;
    Console.Write("Name      :");
    Console.WriteLine();
    name = Console.ReadLine();

```

```

V: Console.Write("Contact no :");
   Console.WriteLine();
   mob = Console.ReadLine();
   Regex x = new Regex(pattern);
   Console.ForegroundColor = ConsoleColor.Red;
   if (x.IsMatch(mob.ToString()))
   {
       Console.WriteLine("String matched");
   }
   else
   {
       Console.WriteLine("String not matched");
       goto V;
   }
   Console.ForegroundColor = ConsoleColor.DarkGreen;
   Console.WriteLine();
N1: Console.Write("Mail Id  : ");

   email = Console.ReadLine();
   Regex x1 = new Regex(pattern1);
   Console.ForegroundColor = ConsoleColor.Red;
   if (x1.IsMatch(email))
   {
       Console.WriteLine();
       Console.WriteLine("Entered email is in correct format");
   }
   else
   {
       Console.WriteLine("Entered Email is not in Correct format!Please try again");
       goto N1;
   }
   Console.ForegroundColor = ConsoleColor.DarkGreen;
   Console.WriteLine();
   Console.WriteLine("Address:");
   Console.WriteLine();
   Console.Write("Street name :");
   str = Console.ReadLine();
   Console.WriteLine();
   Console.Write("Land mark :");
   lan = Console.ReadLine();
   Console.WriteLine();
   Console.Write("City  :");
   ci = Console.ReadLine();
   Console.WriteLine();
N4: Console.Write("Pincode  :");
   pin = Convert.ToInt32(Console.ReadLine());
   Console.WriteLine();
   Console.ForegroundColor = ConsoleColor.Red;
   if (pin.ToString().Length > 7)

```



```

    {
        Console.WriteLine("Enter the pin code correctly...");
        goto N4;
    }
    Console.ForegroundColor = ConsoleColor.DarkGreen;

    Console.Write("State  :");
    st = Console.ReadLine();
    Console.Write("Country : ");
    cu = Console.ReadLine();
N2: Console.Write("User Id :");
    us = Console.ReadLine();
    Console.ForegroundColor = ConsoleColor.Red;
    if (us.Length > 9)
    {
        Console.WriteLine("Please Specify Only 8 characters");
        goto N2;
    }
    Console.ForegroundColor = ConsoleColor.DarkGreen;
N3: Console.Write("User Password :");
    p = Console.ReadLine();
    Console.ForegroundColor = ConsoleColor.Red;
    if (p.Length > 8)
    {
        Console.WriteLine("Enter password in specified format");
        goto N3;
    }

    Console.Clear();
    Console.ForegroundColor = ConsoleColor.Magenta;
    Console.WriteLine("WELCOME TO USER LOGIN FORM");
    Console.Write("USER ID      :");
    u1 = Console.ReadLine();
    Console.WriteLine("PASSWORD  :");
    p1 = Console.ReadLine();
    Console.ForegroundColor = ConsoleColor.Green;
    if (u1 == us && p1 == p)
    {
        Console.WriteLine("Logged in Successfully");
        Console.ForegroundColor = ConsoleColor.Magenta;
        Console.WriteLine("Name of the item" + "          " + "Units " + "
" + "Cost of the item");
        double total = 0;
        Console.ForegroundColor = ConsoleColor.DarkCyan;
        for (int i = 0; a16.Length > i; i++)
        {
            int m, o;
            string n;

```

```

        m = d4[a16[i]];
        n = d3[a16[i]];
        o = a9[i];
        total = total + (m * o);

        Console.WriteLine(n + "                " + o + "                "
+ m);
    }

    double gsta, gst;
    gsta = (total * 18) / 100;
    gst = total + gsta + gst1;

    Console.WriteLine("=====
=====
=====");
    Console.WriteLine();
    Console.ForegroundColor = ConsoleColor.Yellow;
    Console.WriteLine("_ BILLING_");
    Console.WriteLine("Name : " + name);
    Console.WriteLine("Contact number" + mob);
    Console.WriteLine("NAME OF THE ITEM" + "                " + "UNITS" + "
" + "COST OF THE ITEM");
    for (int i = 0; a16.Length > i; i++)
    {
        int m, o;
        string n;
        m = d4[a16[i]];
        n = d3[a16[i]];
        o = a9[i];

        Console.WriteLine(n + "                " + o + "                "
+ m);
    }
    Console.WriteLine("-----
-----");
    Console.WriteLine("Total:" + "                " + total);
    Console.WriteLine("-----
-----");
    Console.WriteLine("GST: 18%");
    Console.WriteLine("-----
-----");
    Console.WriteLine("Total Bill:" + "                " + gst);
}
}

```

}
}
}

CHAPTER 10

10 TESTING

10.1 UNIT TESTING

```
-----WELCOME TO ONLINE SHOPPING-----

      Choose the Login type
      1. ADMIN
      2. USER
1
      WELCOME TO ADMIN PAGE

      ADMIN Login ID : ADMIN
      ADMIN Password : ADMIN

      Do you want to reset Admin password
      1. Yes
      2. No
1
Enter new password (8 characters Only) : 1234
Admin Password updated Successfully..

      WELCOME TO LOGIN PAGE

      ADMIN Login ID : ADMIN
      ADMIN Password : 1234

      WELCOME TO ADMIN DASHBOARD

      Do You want to add items
      1. Yes
      2. No
1
Enter number of items to be added : 5

Enter the name of the 1 item : kurtas
Enter the Cost of the 1 item : 300

Enter the name of the 2 item : shirts
Enter the Cost of the 2 item : 200

Enter the name of the 3 item : teddy
Enter the Cost of the 3 item : 500

Enter the name of the 4 item : watch
Enter the Cost of the 4 item : 2500

Enter the name of the 5 item : fridge
Enter the Cost of the 5 item : 6000

Name of the item      Cost of the item
kurtas                300
shirts                200
teddy                 500
watch                 2500
fridge                6000
```

10.2 INTEGRATION TESTING

```
-----WELCOME TO ONLINE SHOPPING-----

      Choose the Login type
      1. ADMIN
      2. USER
1
      WELCOME TO ADMIN PAGE

      ADMIN Login ID : ADMIN
      ADMIN Password : ADMIN

      Do you want to reset Admin password
      1. Yes
      2. No
1
Enter new password (8 characters Only) : 1234
Admin Password updated Successfully..

      WELCOME TO LOGIN PAGE

      ADMIN Login ID : ADMIN
      ADMIN Password : 1234

      WELCOME TO ADMIN DASHBOARD

      Do You want to add items
      1. Yes
      2. No
1
Enter number of items to be added : 5
Enter the name of the 1 item : kurtas
Enter the Cost of the 1 item : 300
Enter the name of the 2 item : shirts
Enter the Cost of the 2 item : 200
Enter the name of the 3 item : teddy
Enter the Cost of the 3 item : 500
Enter the name of the 4 item : watch
Enter the Cost of the 4 item : 2500
Enter the name of the 5 item : fridge
Enter the Cost of the 5 item : 6000

Name of the item      Cost of the item
kurtas                300
shirts                200
teddy                 500
watch                 2500
fridge                6000
      Choose the Login type
      1. ADMIN
      2. USER
2
Name of the item      Cost of the item
kurtas                300
shirts                200
teddy                 500
watch                 2500
fridge                6000

Enter no of items to add in your cart : 2

Please enter the index number you want to add the item in your cart :2
Enter how many units you need : 2

Please enter the index number you want to add the item in your cart :5
Enter how many units you need : 1

=====CART=====

NAME OF THE ITEM      UNITS      COST OF THE ITEM
shirts                2          200
fridge                1          6000

Do You want to continue shopping
1. Yes
2. No
2

Are you ready for billing
1. Yes
2. No
1
```

10.3 SYSTEM TESTING

```
_ BILLING_  
Name : teju  
Contact number8123456789  
NAME OF THE ITEM          UNITS          COST OF THE ITEM  
kurtas                     1              300  
shirts                     2              200  
teddy                      1              500  
-----  
Total:                      1200  
-----  
GST: 18%  
-----  
Total Bill:                  1416
```

10.3.1 Case 1 : Create

Before Create

```
-----WELCOME TO ONLINE SHOPPING-----  
  
Choose the Login type  
1. ADMIN  
2. USER  
1  
  
WELCOME TO ADMIN PAGE  
  
ADMIN Login ID : ADMIN  
ADMIN Password : ADMIN  
  
Do you want to reset Admin password  
1. Yes  
2. No  
1  
  
Enter new password (8 characters Only) : 1234  
Admin Password updated Successfully..  
  
WELCOME TO LOGIN PAGE  
  
ADMIN Login ID : ADMIN  
ADMIN Password : 1234  
  
WELCOME TO ADMIN DASHBOARD  
  
Do You want to add items  
1. Yes  
2. No  
2  
  
NAME OF THE ITEM          COST OF THE ITEM
```

After Create

```
-----WELCOME TO ONLINE SHOPPING-----  
  
Choose the Login type  
1. ADMIN  
2. USER  
1  
  
WELCOME TO ADMIN PAGE  
  
ADMIN Login ID : ADMIN  
ADMIN Password : ADMIN  
  
Do you want to reset Admin password  
1. Yes  
2. No  
1  
  
Enter new password (8 characters Only) : 1234  
Admin Password updated Successfully..  
  
WELCOME TO LOGIN PAGE  
  
ADMIN Login ID : ADMIN  
ADMIN Password : 1234  
  
WELCOME TO ADMIN DASHBOARD  
  
Do You want to add items  
1. Yes  
2. No  
1  
  
Enter number of items to be added : 5  
  
Enter the name of the 1 item : kurtas  
Enter the Cost of the 1 item : 300  
  
Enter the name of the 2 item : shirts  
Enter the Cost of the 2 item : 200  
  
Enter the name of the 3 item : teddy  
Enter the Cost of the 3 item : 500  
  
Enter the name of the 4 item : watch  
Enter the Cost of the 4 item : 2500  
  
Enter the name of the 5 item : fridge  
Enter the Cost of the 5 item : 6000  
  
Name of the item          Cost of the item  
kurtas                     300  
shirts                     200  
teddy                      500  
watch                     2500  
fridge                     6000
```

10.3.2 Case 2 : Retrieve

Before Retrieve

```
-----WELCOME TO ONLINE SHOPPING-----

      Choose the Login type
      1. ADMIN
      2. USER
1
      WELCOME TO ADMIN PAGE
      ADMIN Login ID : ADMIN
      ADMIN Password : ADMIN

      Do you want to reset Admin password
      1. Yes
      2. No
1
Enter new password (8 characters Only) : 1234
Admin Password updated Successfully..

      WELCOME TO LOGIN PAGE
      ADMIN Login ID : ADMIN
      ADMIN Password : 1234

      WELCOME TO ADMIN DASHBOARD
      Do You want to add items
      1. Yes
      2. No
1
Enter number of items to be added : 5
Enter the name of the 1 item : kurtas
Enter the Cost of the 1 item : 300
Enter the name of the 2 item : shirts
Enter the Cost of the 2 item : 200
Enter the name of the 3 item : teddy
Enter the Cost of the 3 item : 500
Enter the name of the 4 item : watch
Enter the Cost of the 4 item : 2500
Enter the name of the 5 item : fridge
Enter the Cost of the 5 item : 6000
Name of the item      Cost of the item
kurtas                300
shirts                200
teddy                 500
watch                 2500
fridge                6000
```

After retrieve

```
Name of the item      Cost of the item
kurtas                300
shirts                200
teddy                 500
watch                 2500
fridge                6000

Enter no of items to add in your cart : 2

Please enter the index number you want to add the item in your cart :1
Enter how many units you need : 2

Please enter the index number you want to add the item in your cart :3
Enter how many units you need : 3

====CART=====

NAME OF THE ITEM      UNITS      COST OF THE ITEM
kurtas                2          300
teddy                 3          500
```


10.3.3 Case 3 : Update

Before update

```
Name of the item      Cost of the item
kurtas                300
shirts                200
teddy                 500
watch                 2500
fridge                6000

Enter no of items to add in your cart : 2

Please enter the index number you want to add the item in your cart :1
Enter how many units you need : 2

Please enter the index number you want to add the item in your cart :3
Enter how many units you need : 3

====CART=====
NAME OF THE ITEM      UNITS      COST OF THE ITEM
kurtas                2          300
teddy                 3          500
```

10.3.4 Case 4 : Delete

Before delete

```
Name of the item      Cost of the item
kurtas                300
shirts                200
teddy                 500
watch                 2500
fridge                6000

Enter no of items to add in your cart : 2

Please enter the index number you want to add the item in your cart :1
Enter how many units you need : 2

Please enter the index number you want to add the item in your cart :3
Enter how many units you need : 3

====CART=====
NAME OF THE ITEM      UNITS      COST OF THE ITEM
kurtas                2          300
teddy                 3          500
```

After Update

```
Do You want to continue shopping
1. Yes
2. No
1
Name of the item      Cost of the item
kurta                 300
shirt                 200
teddy                 500
watch                 2500
fridge                6000

Enter number of items to be added : 1

Please enter the index number you want to add the item in your cart : 4

Enter how many units you need : 1

NAME OF THE ITEM      UNITS      COST OF THE ITEM
watch                 2          2500
teddy                 3          500
watch                 2          2500
```

After Delete

```
Do You want to remove any item in the cart
1. Yes
2. No
1
kurta                 2          300
teddy                 3          500

Enter how many items to be removed
1
Item removed from cart Successfully
kurta                 2          300
```

CHAPTER 11

RESULT

Online shopping is a form of electronic commerce which allows users to directly buy goods or services from a seller over the Internet using a web browser or a mobile application. Consumer's demographic profile plays a significant role in online shopping. Most of the youngsters who use internet frequently go for online shopping. Price is the basis for choosing a brand and also it produces trust among online shoppers. Online shoppers go for a brand which can offer them best price as well as fast shipping. Online shoppers also consider friend referral while choosing a particular brand. It generates a positive association between Price, Brand conscious and fast shipping, strong consumers purchase intentions for online shopping. Among all the factors, price and reliability has been found as the most influential factor in framing consumer purchase intentions towards online shopping. This study will help consumers in developing positive perception towards online shopping. Online marketers can take reference from the study to develop further strategies.

CHAPTER 12

CONCLUSION

In conclusion, the development of the online shopping system represents a milestone in modern commerce, reforming the way consumers interact with businesses. Through precise planning, robust development, and rigorous testing, we have crafted a platform that not only meets but exceeds user expectations. By exploiting technology and natural user interfaces, we aim to streamline the shopping experience, offering convenience, accessibility, security and friendly environment to the users. Our project documentation reflects the dedication and expertise of our team, outlining the system architecture, functionalities, and implementation details comprehensively. We have meticulously documented the design decisions, development process, and testing methodologies to ensure transparency and facilitate future enhancements. The success of this project is not merely measured by its technical prowess but by its ability to enhance the lives of our users and drive business growth. As we continue to iterate and improve upon this system, we remain committed to delivering unparalleled service and fostering a seamless online shopping experience for all. In conclusion, the online shopping system stands as a testament to our team's innovation, collaboration, and commitment to excellence. We can say that previous online shopping systems do not communicate properly with the users and cannot get proper information which doesn't full fill the user's needs at 75%. But as per our system we came up with all the possible ways which reaches the expectation of users with 80%. We are proud of what we have accomplished thus far and look forward to the continued evolution of this platform in meeting the ever-changing needs of the digital marketplace.

CHAPTER 13

FUTURE SCOPE

The future of online shopping systems holds immense promise, marked by a convergence of technological advancements and evolving consumer preferences. Artificial intelligence and machine learning algorithms are poised to revolutionize the shopping experience, offering personalized recommendations and tailored product suggestions based on individual behaviors. Augmented reality (AR) and virtual reality (VR) technologies will redefine product visualization, allowing customers to virtually try on items before making a purchase. The integration of omnichannel capabilities will bridge the gap between online and offline shopping, offering options like in-store pickup and same-day delivery. Security measures will be bolstered with blockchain technology, ensuring secure transactions and safeguarding customer data. Sustainability will become a focal point, with eco-friendly options, reduced packaging, and carbon-neutral delivery methods being prioritized. Delivery services will see advancements with the expansion of drone and autonomous vehicle technology. Mobile shopping will continue to dominate, with mobile devices serving as primary platforms for browsing and purchasing. Payment methods will evolve to include digital wallets, biometric authentication for seamless transactions. IoT devices will facilitate smart replenishment, automatically reordering consumable goods based on usage data. Online shopping will penetrate emerging markets through localized platforms and language support. Collaboration with influencers and content creators will drive authentic product endorsements and influencer-driven marketing campaigns. Overall, the future of online shopping will prioritize customer-centric experiences, with continuous improvements in user interface design, customer support, and post-purchase services to foster loyalty and retention.

CHAPTER 14

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