

Visvesvaraya Technological University, Belagavi – 590010



**DBMS MINI PROJECT REPORT
ON
Cafe Management System**

Submitted by

Joyline Rencita Dsouza
Ramgopal P

4SO20CS073
4SO20CS121

Under the guidance of

Ms Supreetha D R
(Assistant Professor, CSE Department)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**ST JOSEPH ENGINEERING COLLEGE
Vamanjoor, Mangaluru -575028, Karnataka
2022-2023**

Visvesvaraya Technological University, Belagavi – 590010



**DBMS MINI PROJECT REPORT
ON
Cafe Management System**

Submitted by

Joyline Rencita Dsouza
Ramgopal P

4SO20CS073
4SO20CS121

Under the guidance of

Ms Supreetha D R
(Assistant Professor, CSE Department)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**ST JOSEPH ENGINEERING COLLEGE
Vamanjoor, Mangaluru -575028, Karnataka
2022-2023**

ST JOSEPH ENGINEERING COLLEGE
Vamanjoor, Mangaluru- 575 028

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

*This is to certify that the Mini project entitled “**CAFE MANAGEMENT SYSTEM**” is a bonafide work carried out by*

Joyline Rencita Dsouza

4SO20CS073

Ramgopal P

4SO20CS121

Students of fifth semester B.E. Computer Science & Engineering, and submitted as a part of the course DBMS Laboratory with Mini Project (18CSL58), during the academic year 2022-2023.

Ms Supreetha D R

Project Guide

Dr Sridevi Saralaya

Head of Department

Name of the Examiners

Signature with Date

1. -----

1. -----

2. -----

2. -----

ABSTRACT

Cafe Management System aims at developing a website which helps the users to order their food in a cafe using a kiosk-based system. The system displays the food menu and the prices of all food items. The customer can order their food, following which a bill will be generated. The system will use a database to hold information as well as the latest price details and information on the availability of food. The system also has an administrator who has the ability to view the food available and customers who have ordered the food. Also, the admin can add, delete, and update the order information.

The Cafe management system provides an easy self-ordering system that ensures the least human interaction with the customers. The main purpose of this system is to reduce the manual errors caused by communication and make it convenient for customers to order the food as and when they require it. It also reduces the time taken in ordering the food.

ACKNOWLEDGEMENT

We dedicate this page to acknowledge and thank those responsible for shaping of the project. Without their guidance and help, the experience while constructing the dissertation would not have been so smooth and efficient.

We sincerely thank **Ms Supreetha D R, Assistant Professor**, Department of Computer Science and Engineering for her guidance and valuable suggestions which helped us to complete the project.

We owe our profound gratitude to **Dr Sridevi Saralaya, Head of the Department**, of Computer Science and Engineering, whose kind consent and guidance helped us to complete this work successfully.

We are extremely thankful to our **Director, Rev. Fr Wilfred Prakash D'Souza**, our **Principal, Dr Rio D'Souza**, and our **Assistant Director, Rev. Fr Alwyn Richard D'Souza** for their support and encouragement.

We would like to thank all our Computer Science and Engineering staff members who have always been with us extending their support, precious suggestions, guidance, and encouragement in all possible ways.

We also extend our gratitude to our friends and family members for their continuous support.

CONTENTS

Abstract.....	i
Acknowledgment.....	ii
Contents.....	iii
List of Tables and Figures.....	iv
1. Introduction.....	1
1.1 Problem Definition.....	1
1.2 Scope.....	1
2. Software Requirement Specification.....	2
2.1 Functional Requirements.....	2
2.2 Software Requirements.....	2
2.3 Hardware Requirements.....	2
3. System Design.....	3-6
3.1 ER Model.....	3
3.2 Schema Description.....	4
3.3 Tables Description.....	5-6
4. Screenshots.....	7-13
5. Conclusion and Future work.....	14
6. References.....	15

LIST OF TABLES AND FIGURES

3. System Design.....	3-6
3.1 ER Model.....	3
3.2 Schema Diagram.....	4
3.3 Table Description.....	5-6
T1: Cafe.....	5
T2: Employee.....	5
T3: Customer.....	5
T4: Order.....	5-6
T5: Item.....	6
T6: Emp_login.....	6
T7: Manager.....	6
4. Screenshots.....	7-13

CHAPTER 1 - INTRODUCTION

1.1 Problem Statement

Cafe management system is a software developed for various activities in the cafe. For the past few years, the number of cafes are increasing rapidly and the old system is not so compatible to store huge amounts of data, so a huge database has to build in order to overcome this problem. Hence this particular project deals with problems of managing a cafe and avoids a problem that occurs when carried out manually.

This software collects the details of products, costs, user information, and transaction details. The main aim of this database is to manage all the details of the cafe from the admin end and the user end. It is developed using LAN concepts where multi-user can access the server at the same time.

Identification of drawbacks of the existing system leads to the designing of an advanced database management system that is more user-friendly.

1.2 Scope & Importance

The cafe management system is developed for automating all the activities of the cafe. This software will treat a bit of relief to the authorised person to manage the system. Also helps the user to place the order for the food. It also provides the facility to deliver the food to the customer's place. The system also provides the scope for updating the menu, modification, and deletion of data along with providing the backup option in a very systematic and reliable manner.

It helps them from the manual work from which it is very difficult to find the record of the customer's for home delivery. Currently, all the cafes are managed manually. This causes a lot of repetition which can be easily avoided, and hence a lot of strain on the person who is running the cafe, and software's not usually used in this context. This particular project deals with the problem of managing a cafe and avoids the problem which occurs when carried out manually.

CHAPTER 2 – Software Requirement Specification

2.1 Functional Requirements

Login & Sign Up:

1. Users or Admin can log into their accounts
2. If the user is not registered, he/she may enroll themselves using the registration page by providing their details
3. Admin must log in with their unique name and password

Menu Page:

1. It contains the list of food items from the cafe menu.
2. The user can select the food category and look at the menu

Admin Dashboard Page:

1. User data can be monitored
2. The admin can view the order of the customers.

Contact Page:

1. Here the users can contact the admin about the services provided
2. The customer needs to put email and contact details

2.2 Software Requirements

Operating System: Windows 7 or Higher

Languages: HTML, CSS, JavaScript

Database: MySQL

IDE: Visual Studio

2.3 Hardware Requirements

Installed Memory: 2GB of higher

Processor: 1Ghz or Higher

Hard Disk Space: 16Gb or higher

Display: Standard O/P Display

CHAPTER 3 - SYSTEM DESIGN

3.1 E-R Diagram

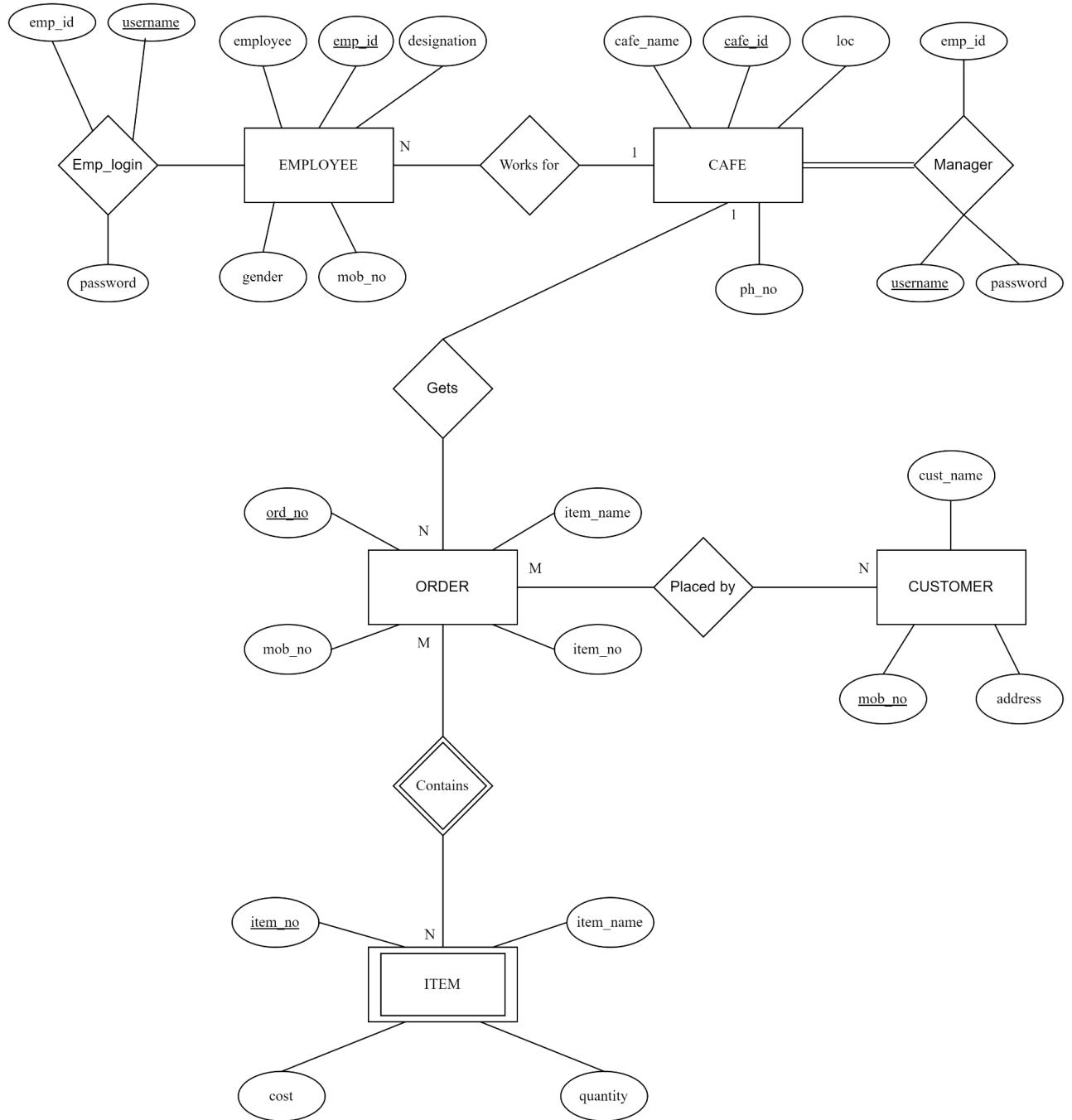


Fig 3.1: E-R Diagram

Fig 3.1 shows us the Entity Relationship diagram for Cafe Management System.

3.2 Schema Diagram

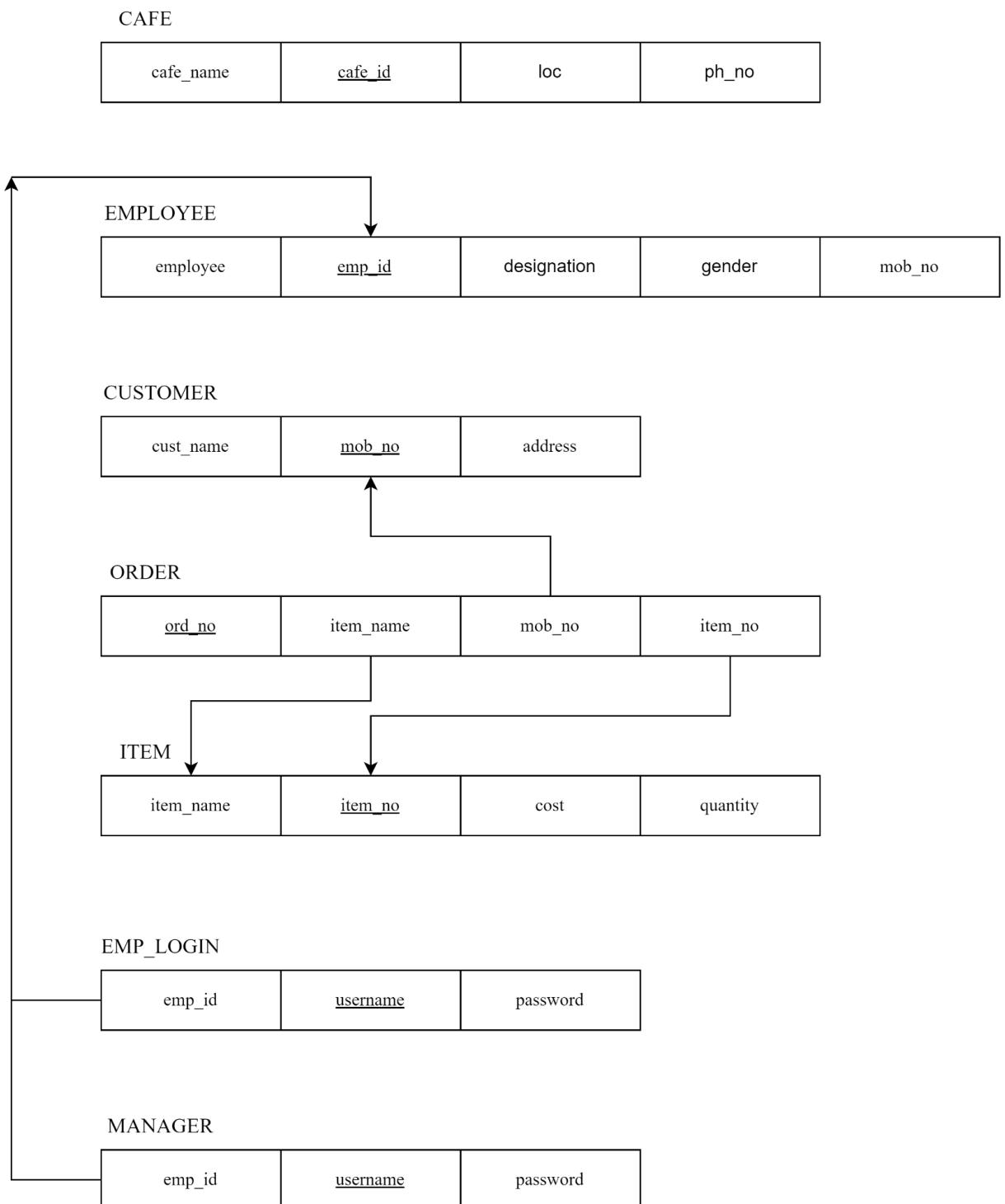


Fig 3.2: Schema Diagram

Fig 3.2 shows us the Schema Diagram for Cafe Management System.

3.3 Tables Description

Table 1: CAFE

Attributes	Data Type	Constraints	Description
CAFE_NAME	VARCHAR	NOT NULL	Name of the cafe
<u>CAFE_ID</u>	INTEGER	PRIMARY KEY	Id for the cafe
LOC	VARCHAR	NOT NULL	Location of the cafe
PH_NO	VARCHAR	NOT NULL	Phone no. for the cafe

Table 2: EMPLOYEE

Attributes	Data Type	Constraints	Description
EMP_NAME	VARCHAR	NOT NULL	Name of the employee
<u>EMP_ID</u>	INTEGER	PRIMARY KEY	ID of the employee
DESIGNATION	VARCHAR	NOT NULL	Employee role
GENDER	CHAR	NOT NULL	Gender
MOB_NO	VARCHAR	NOT NULL	Mobile number of the employee

Table 3: CUSTOMER

Attributes	Data Type	Constraints	Description
CUST_NAME	VARCHAR	NOT NULL	Name of the customer
<u>MOB_NO</u>	VARCHAR	PRIMARY KEY	Mobile number of the customer
ADDRESS	VARCHAR	NOT NULL	Location of the customer

Table 4: ORDER

Attributes	Data Type	Constraints	Description
<u>ORD_NO</u>	INTEGER	PRIMARY KEY	Order number

ITEM_NAME	VARCHAR	NOT NULL	Name of the item
MOB_NO	VARCHAR	NOT NULL	Mobile number of the customer
ITEM_NO	INTEGER	NOT NULL	Item number from menu

Table 5: ITEM

Attributes	Data type	Constraints	Description
ITEM_NAME	VARCHAR	NOT NULL	Name of the item
ITEM_NO	INTEGER	PRIMARY KEY	Item no. of menu
COST	VARCHAR	NOT NULL	Cost of the item
QUANTITY	INTEGER	NOT NULL	Quantity of the item

Table 6: EMP_LOGIN

Attributes	Data type	Constraints	Description
EMP_ID	INTEGER	NOT NULL	ID of the employee
USERNAME	VARCHAR	PRIMARY KEY	Username of the employee
PASSWORD	VARCHAR	NOT NULL	Password of the employee username

Table 7: MANAGER

Attributes	Data type	Constraints	Description
EMP_ID	INTEGER	NOT NULL	ID of the employee
USERNAME	VARCHAR	PRIMARY KEY	Username of the employee
PASSWORD	VARCHAR	NOT NULL	Password for username

CHAPTER 4 - SCREENSHOTS

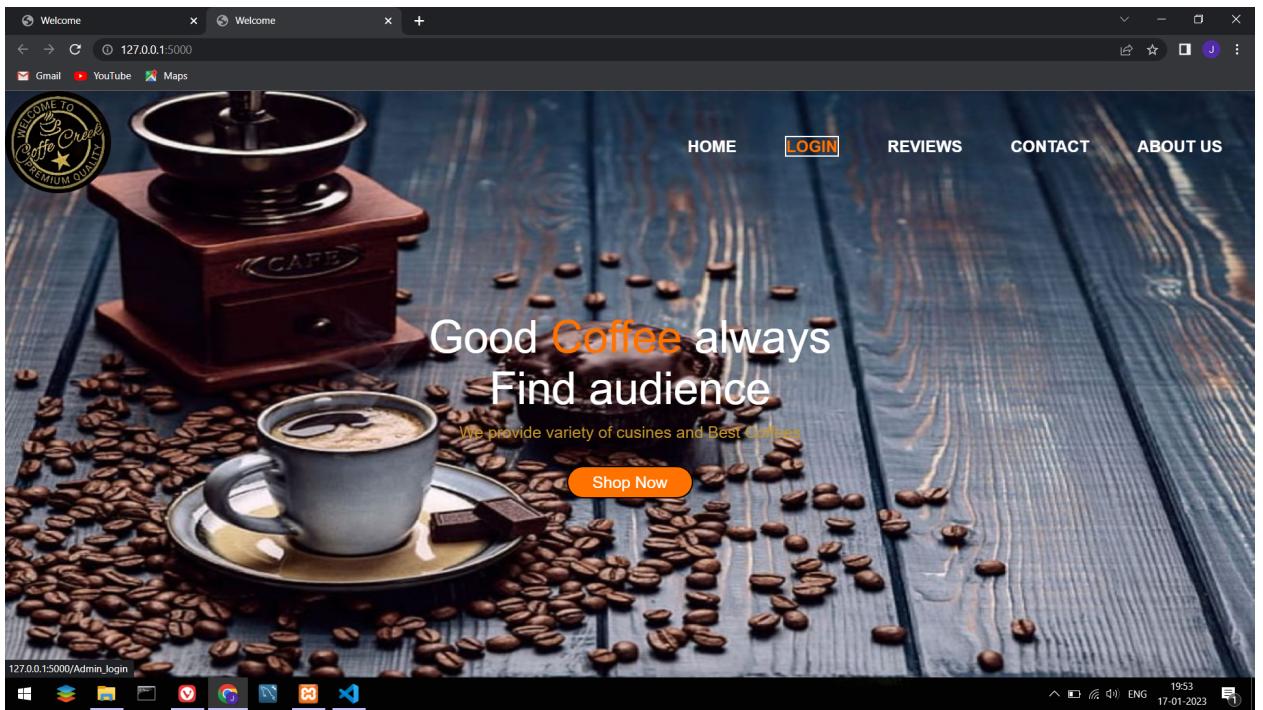


Fig 4.1: Welcome Page

Fig 4.1 is the Welcome Page which is the home page that user sees first.

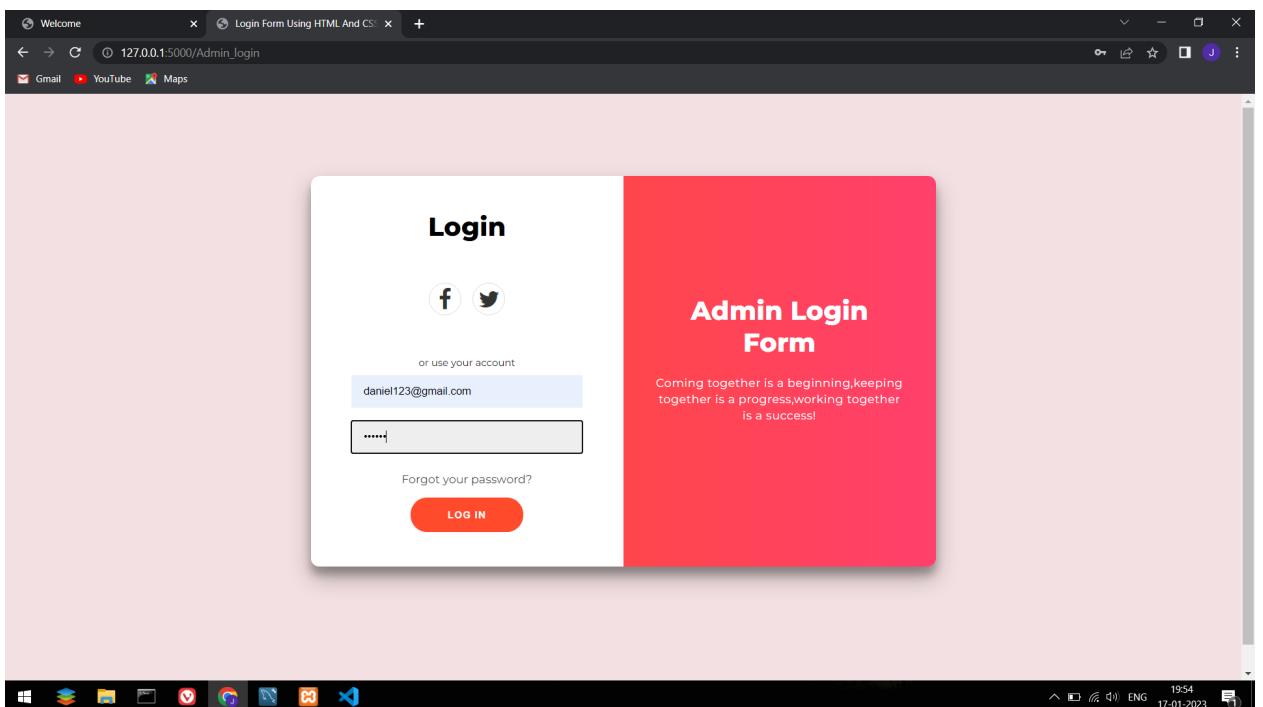


Fig 4.2: Admin Login Page

Fig 4.2 shows the login page for the administrator that is the cafe employee

Cafe Management System

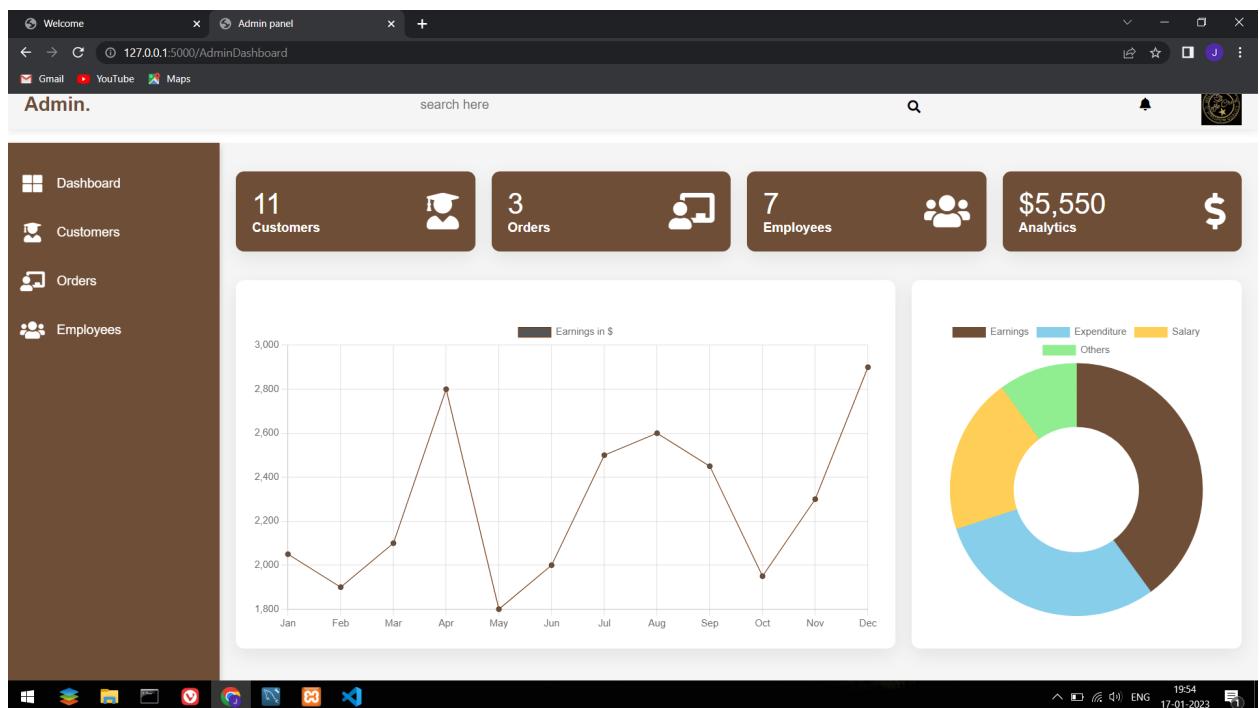


Fig 4.3: Admin Dashboard Page

Fig 4.3 shows the Admin Dashboard Page which displays the analytics of the cafe

The screenshot shows the Customers page. The browser title bar says 'Customers'. The page displays a table with three columns: CUST_NAME, MOBILE_NO, and ADDRESS. The data is as follows:

CUST_NAME	MOBILE_NO	ADDRESS
don	1111111111	Mangalore
ETHAN DSOUZA	7803694780	MANGALORE
JOYLINE	9448364317	Mangalore
RENCITA	9448364318	goa
ELLA THOMPSON	9449079280	MANGALORE
SEZAL CUTINHO	9457903697	MANGALORE
PEARSON WRIGHT	9481016734	MANGALORE
WINSLET	9980466631	Mangalore
WINSLETD	9980466666	Mangalore
WINSLTD	9984466666	Mangalore

Fig 4.4: Customers Page

Fig 4.4 shows the list of customers of the cafe to the administrator

Cafe Management System

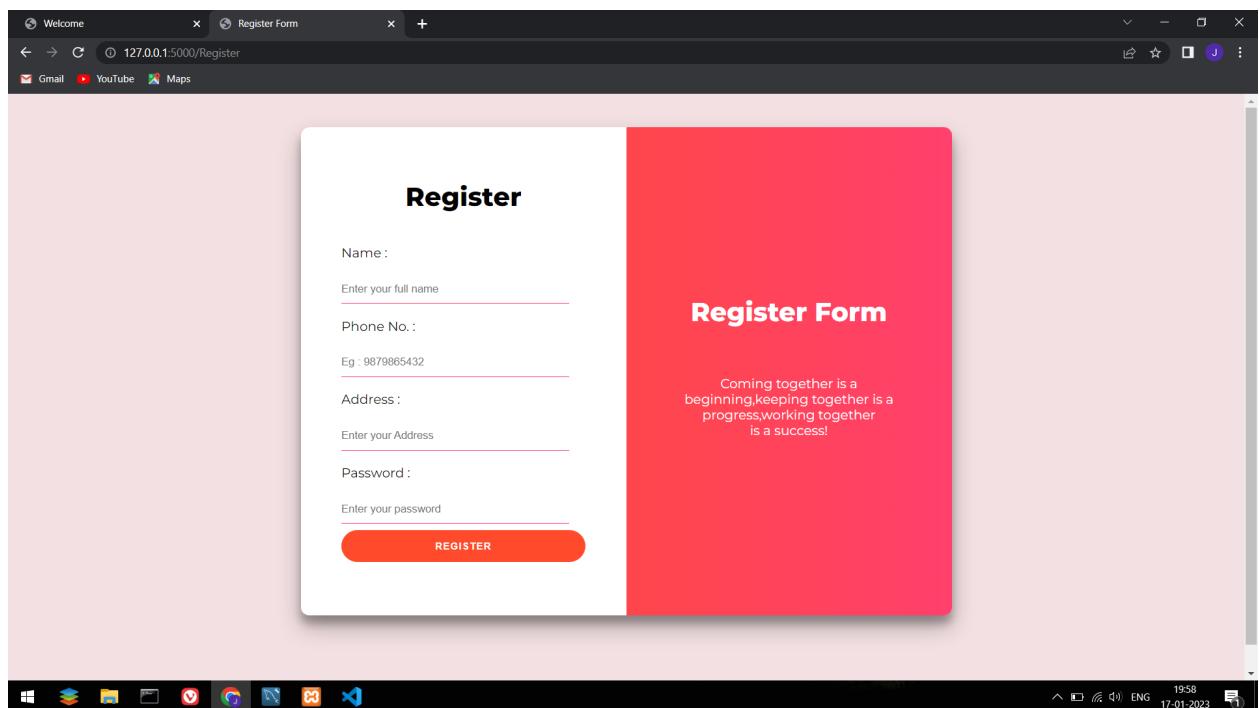


Fig 4.5: Customer Registration Page

Fig 4.5 shows the Registration page for the customers.

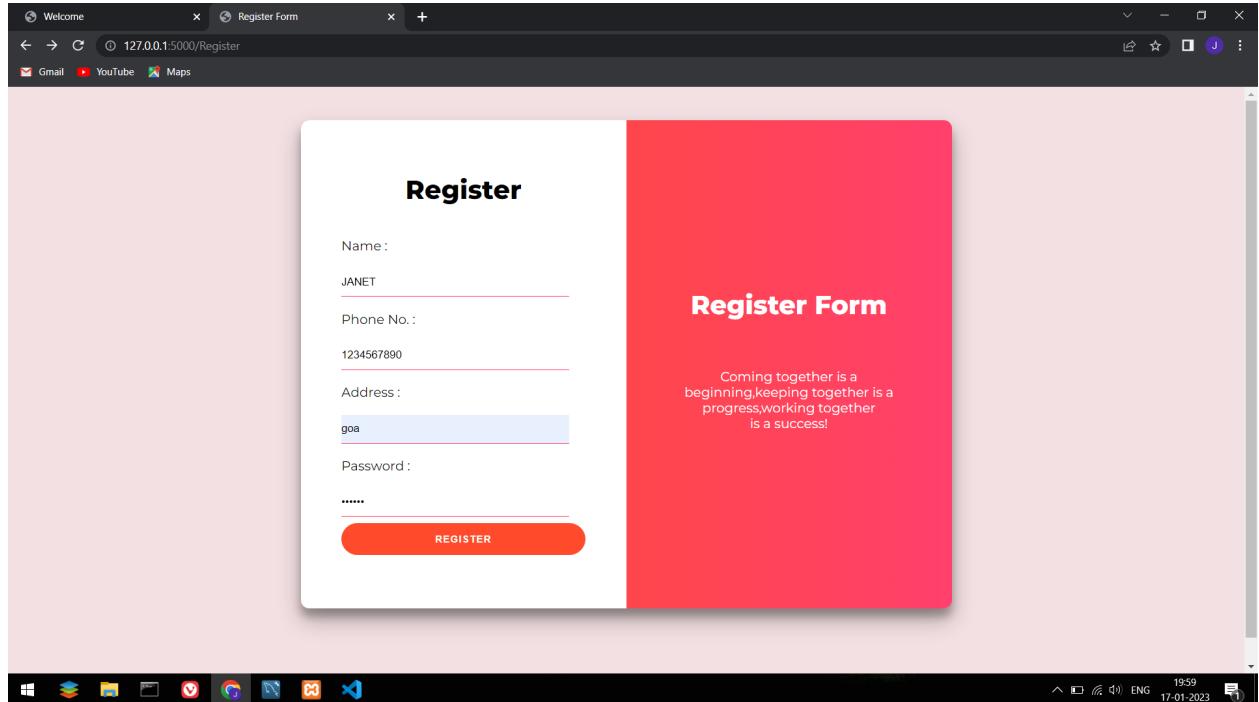


Fig 4.6: Customer Registering

Fig 4.6 shows us the Customer Registering to the cafe.

Cafe Management System

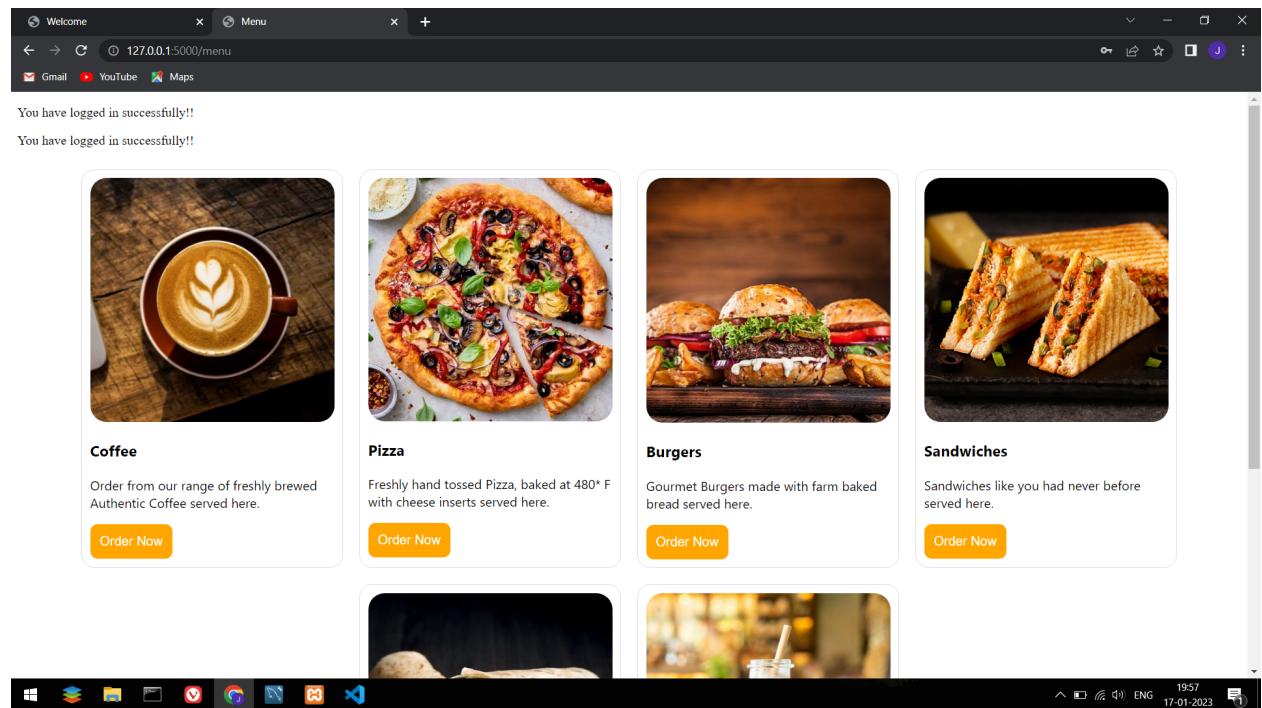


Fig 4.7: Customer logged in/Menu Category

Fig 4.7 shows us the Customer logged in successfully and the categories of the menu.

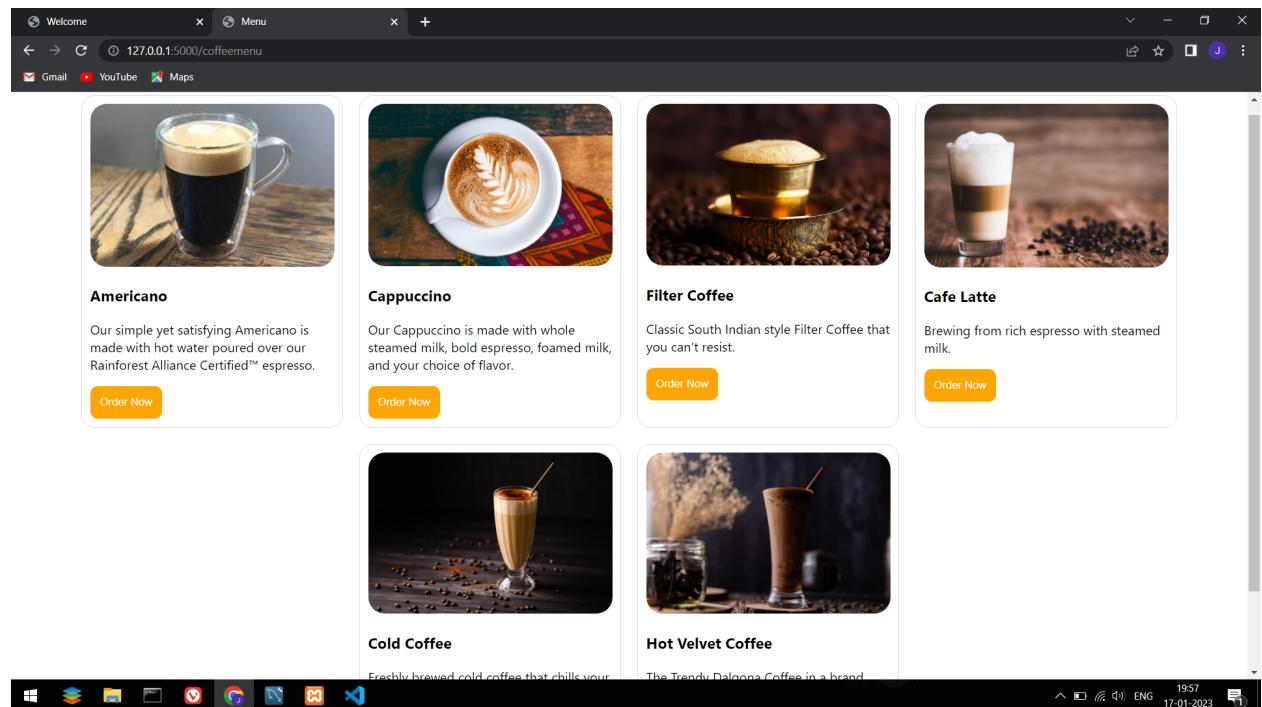


Fig 4.8: Coffee Menu

Fig 4.8 shows us the menu for the coffee.

Cafe Management System

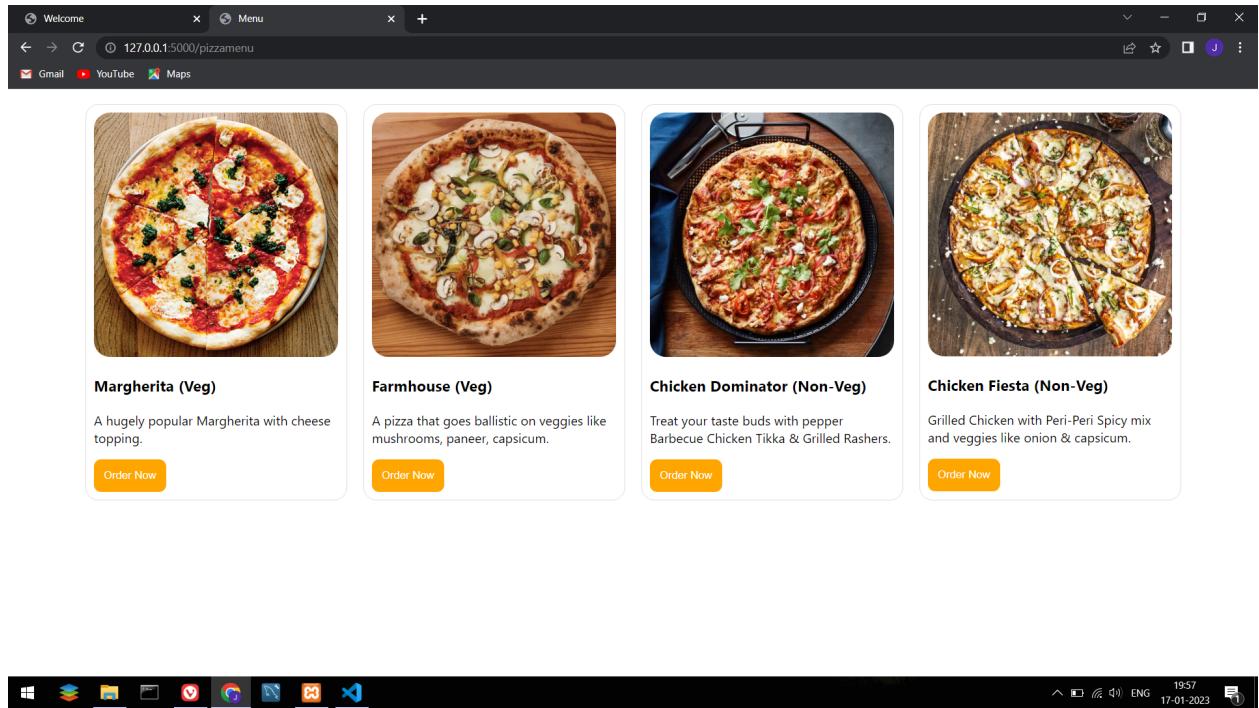


Fig 4.9: Pizza Menu

Fig 4.9 shows us the menu for the pizza

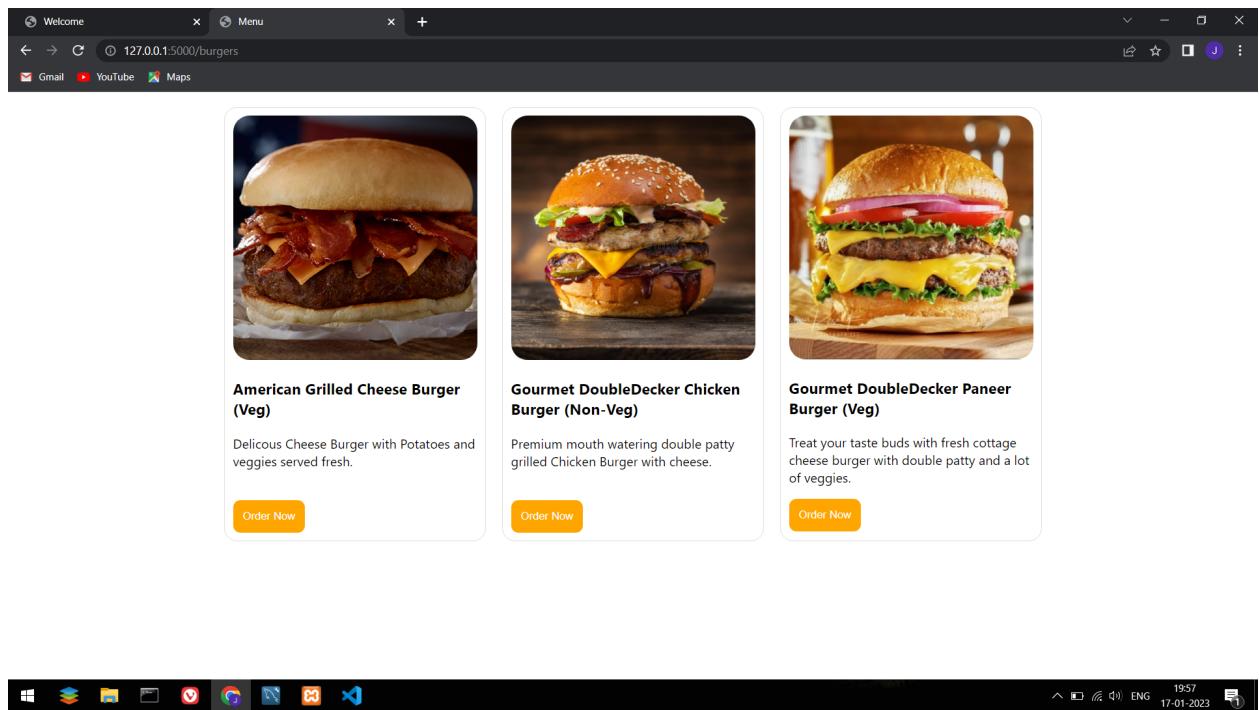


Fig 4.10: Burger Menu

Fig 4.10 shows us the Burger Menu

Cafe Management System

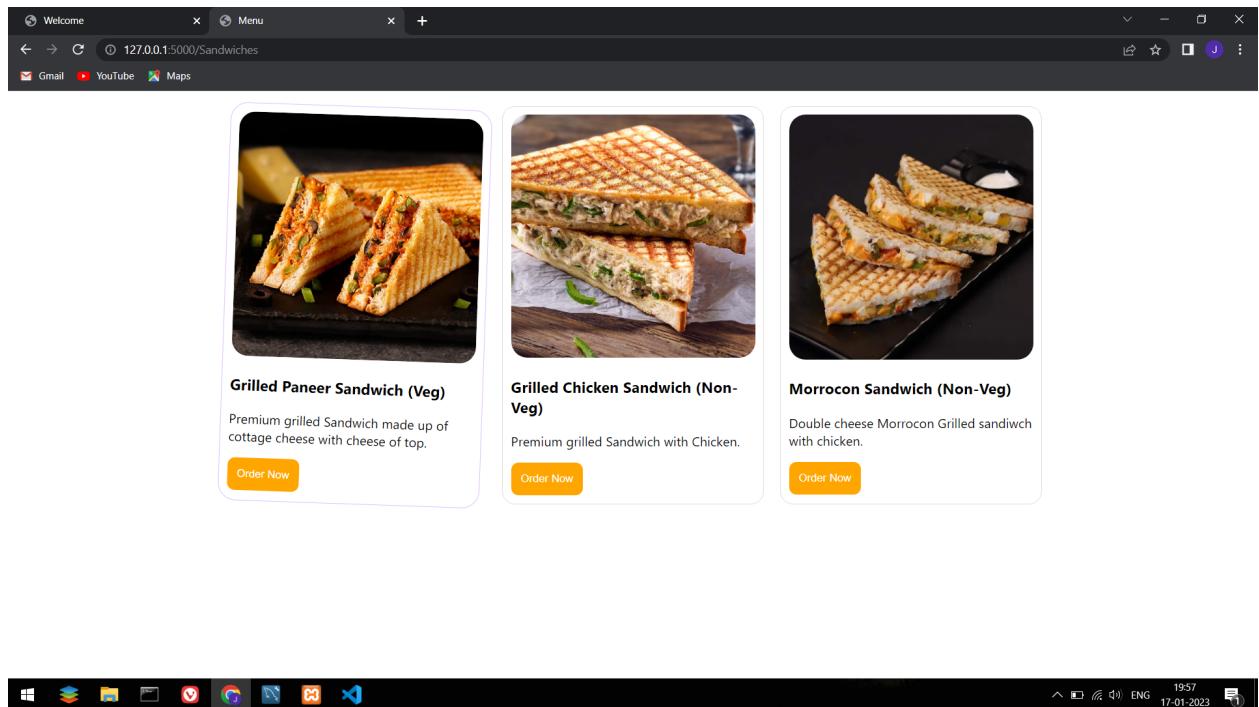


Fig 4.11: Sandwiches Menu

Fig 4.11 shows us the menu for the sandwiches.

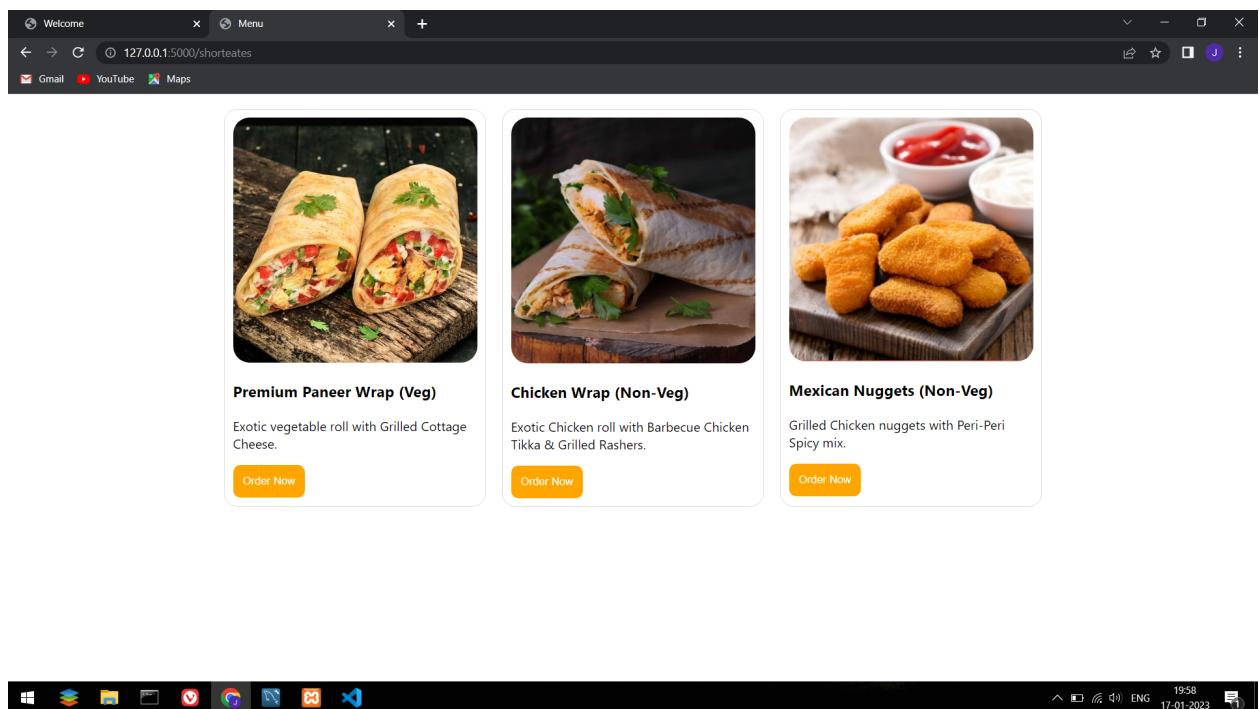


Fig 4.12: Short Eats

Fig 4.13 shows us the menu for the Short Eats.

Cafe Management System

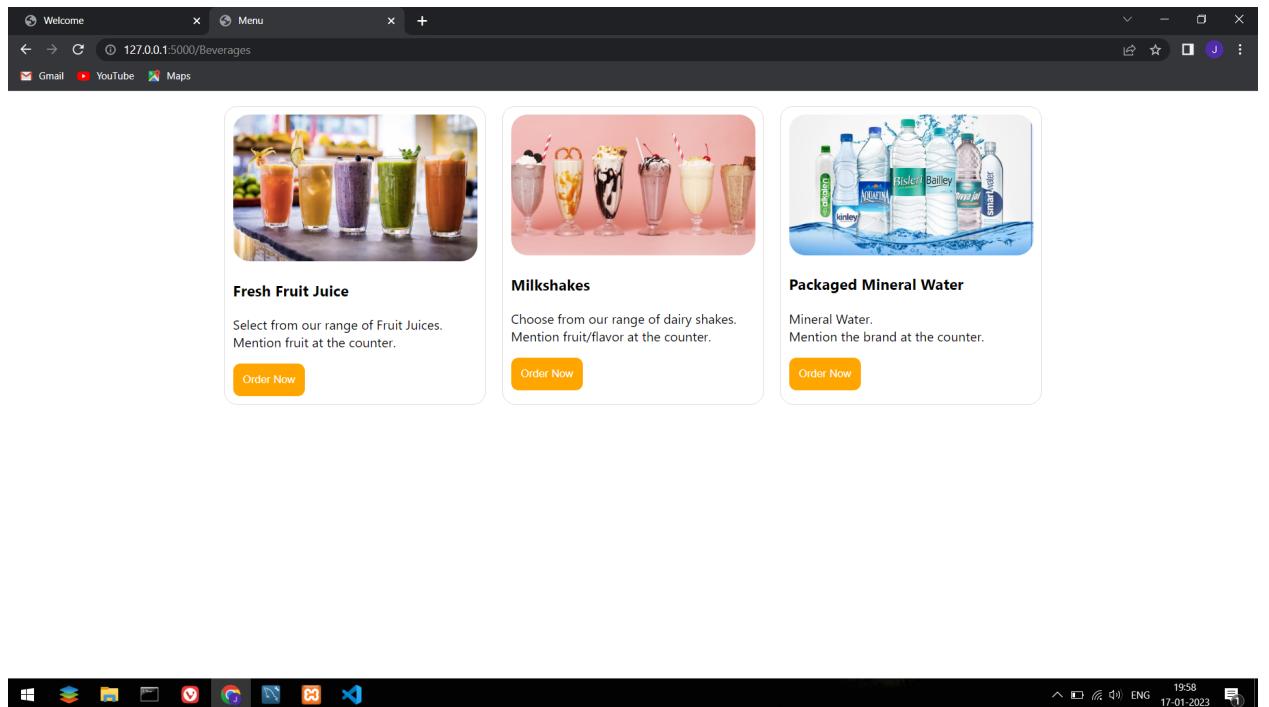


Fig 4.13: Beverages Menu

Fig 4.14 shows us the menu for beverages.

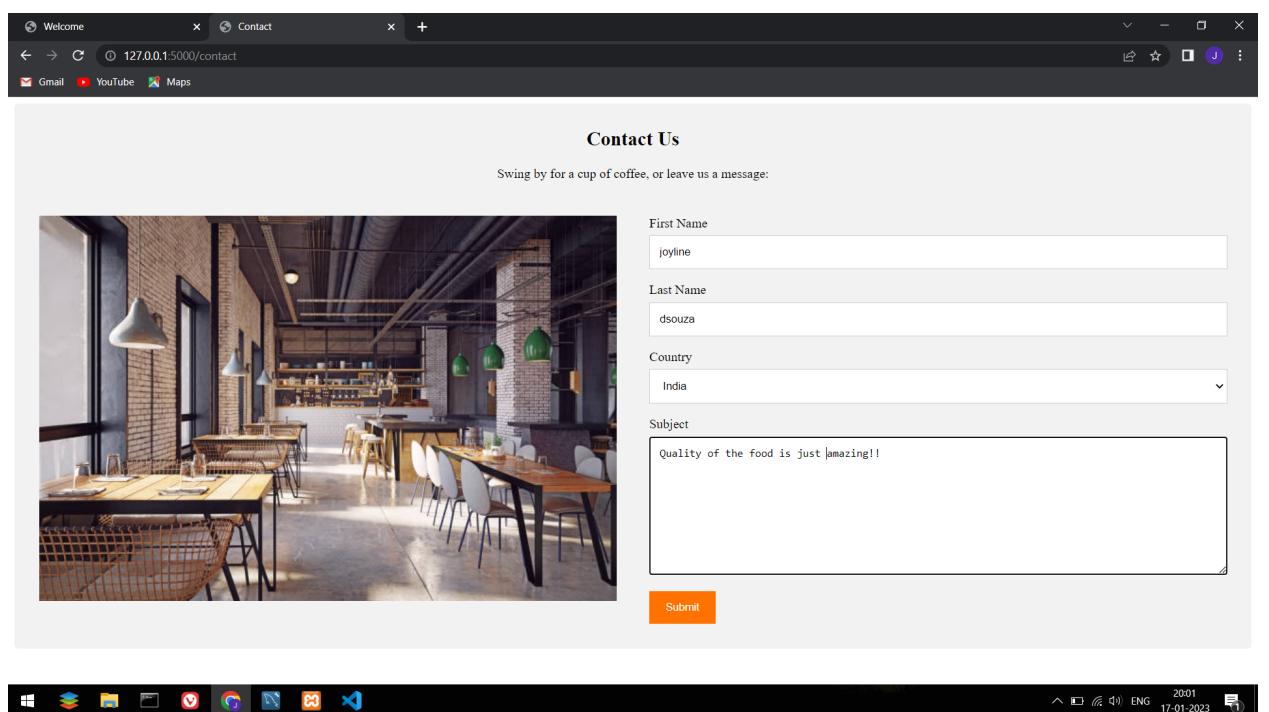


Fig 4.14: Contact Us Page

Fig 4.15 shows us the Contact page for contacting the cafe staff.

CHAPTER 5 - CONCLUSION AND FUTURE WORKS

Cafe Management System which is a food ordering system is a web application where a customer can order food using a kiosk kept at multiple locations in the cafe. Customers can also interact with the website easily without even having to know the system prior to ordering. This kiosk-based food ordering system ensures safety and minimal human interaction.

In the future, features like recent orders can be implemented to reduce interaction timings and suggest users their previous favorites. Table-wise systems can be incorporated to reduce waiting in queues for ordering.

With further extensive developments using embedded systems, we can directly deliver the items to the table which will leave the human interaction needed at almost 0%.

Payment Gateways can be implemented in the future for payments.

REFERENCES

1. www.geeksforgeeks.com
2. www.google.com
3. www.tutorialpoint.com
4. www.mysqltutorial.org
5. www.easytutorials.com