

MINI PROJECT REPORT

on

**"Espresso Kafe Center"**

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UNDER THE GUIDANCE OF

**Prof. Mrinal Khadse**

SUBMITTED IN PARTIAL FULFILLMENT FOR THE DEGREE OF  
BACHELOR OF ENGINEERING

In

Information Technology



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**SIES GRADUATE SCHOOL OF TECHNOLOGY**

**NERUL, NAVI MUMBAI – 400706**

**ACADEMIC YEAR**

**2020– 2021**

## **CERTIFICATE**

This is to certify that this is a bonafide record of Mini Project of the project titled “ **Espresso Kafe Center**” carried out by the following students of second year in **Information Technology**

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The report is submitted in partial fulfillment of the degree course of Bachelor of Engineering in Information Technology, of University of Mumbai during the academic year 2020-21

**Internal Guide**

**Head of Department**

**Principal**

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We have examined this report as per University requirements at SIES Graduate School of Technology, Nerul (E), Navi Mumbai on \_\_\_\_\_.

**Name of External Examiner:** \_\_\_\_\_

**Signature with Date:** \_\_\_\_\_

**Name of Internal Examiner:** \_\_\_\_\_

**Signature with Date:** \_\_\_\_\_

## **ACKNOWLEDGEMENT**

We wish to express our deep sense of gratitude to thank our project guide prof.Ms. Mrinal Khadse for providing timely assistant to our query and guidance. We take this opportunity to thank our HOD. Prof.K.Lakshmisudha and Principal Dr.Atul Kemkar for their valuable guidance and immense support in providing all the necessary facilities.

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### **Project Team**

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## **ABSTRACT**

Espresso Kafe Center is a JavaFX application created for the purpose of being able to choose and order items present in the menu with zero to no user difficulty. It is designed as a one-stop destination for the user to enjoy their snacks with no hassle in the ordering process. Espresso Kafe Center application has a rich, user-friendly Graphical User Interface design developed using JavaFX and PostgreSQL. The data, which is static for a particular user (E.g., Name, id etc.), is stored into PostgreSQL database using FXML.

# **1. INTRODUCTION**

Cafe management system is designed in such a way so that it can accommodate all important requirement for user login and record of their order activities. This cafe database management system is specific to be easily operational for all. Making our website interface user friendly was our foremost priority and wanting to make it pleasing to the eyes and easy to use we took some inputs from the best in the field. Giving customers a huge variety to select from, we have created a very diverse menu catering to everyone's taste still keeping the prices affordable.

## **1.1 Motivation**

Today, Café business is blooming yet a lot of times customer demands are not satisfied. Our project based on Café Management System is a result of our constant efforts as well as taking users' problems in mind. Our main source of motivation were customers who love food yet find ordering it quite difficult. By creating a user friendly platform, we have taken an initiative to save people's valuable time

## **1.2 Problem Statement & Objectives**

Espresso Kafe Center will store all the information related to a user – name, order, cart information. The objective of this project is to build an electronic restaurant management system using all of the skills and techniques from the field ensuring that no common development mistakes are reproduced. Project management is critical to all software engineering projects and keeping to a project plan will be of similar importance. Over the years, technology has tremendously revolutionized the restaurant industry. Much of the innovation has been with point-of-sale (POS) operations. Keeping in mind every minute detail that usually gets unnoticed by a lot of café owners, we have made our application easy to use and platform independent.

## 2. LITERATURE SURVEY

### 2.1 Survey of Existing System

There are many computerised restaurant management systems available but for each system there exist disadvantages or missing features. The most common type of restaurant management system contains a static order entry computer system usually in the shape of a desktop computer with a touchscreen. Typically this common approach is adequate to the restaurants requirements but still requires handwritten orders to be relayed to the order entry computer system.

### 2.2 Limitation Existing System

The current system is **paper based**. Papers are used in restaurants for displaying the traditional menu cards, writing down the orders of customers, storing the records of customers. As traditional menu cards are paper based, any changes that need to be made in the menu will require reprinting of the entire menu card, leading to wastage. For small changes, reprinting the entire menu card is impossible. It is inefficient to access a particular record from the stack of papers. This system is time consuming.

### 3. PROPOSED SYSTEM

Keeping in mind the existing problems, we plan on bringing to the table, a simple, easy to understand and operate web application. We use a cloud based server for storing the database which makes it inexpensive and also secured. Right now, we are only in the initial stage of creating the application and thus this project just consists of

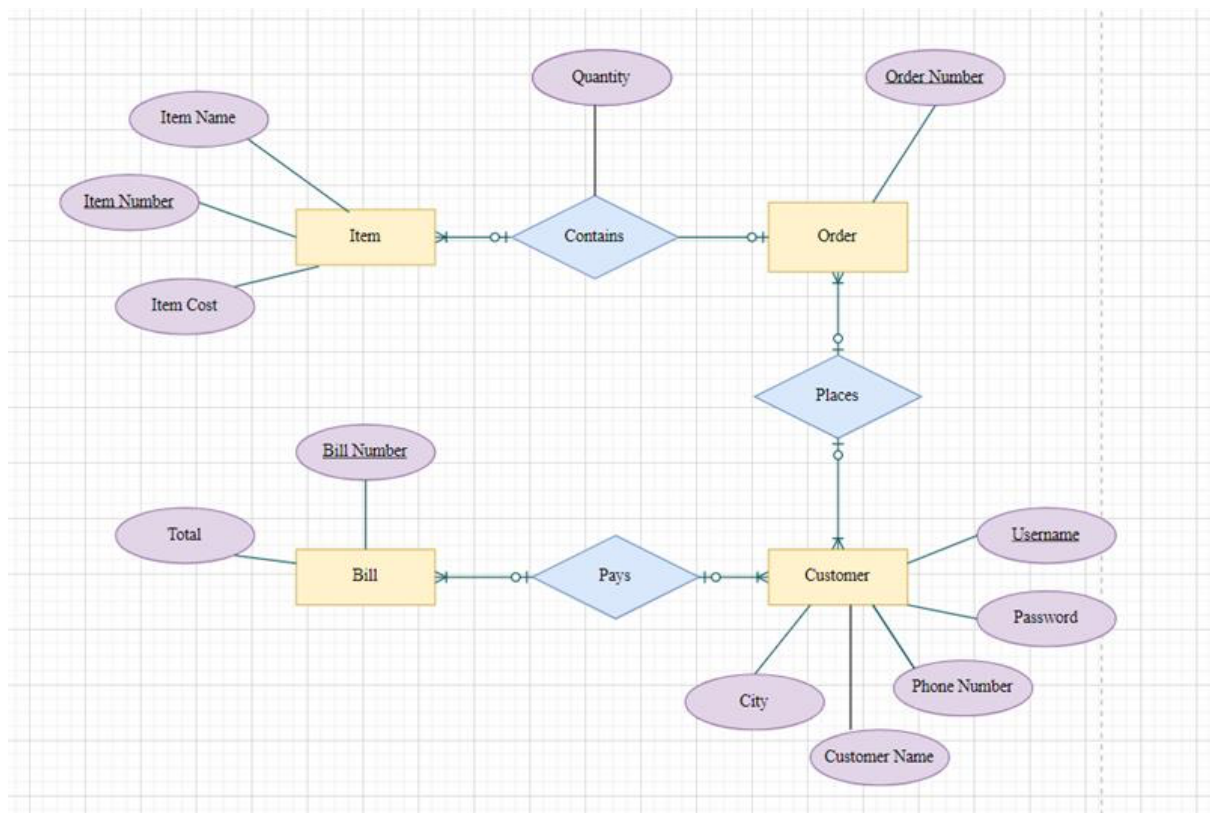
- 1)a login/input page where the user will input their details ,
- 2)a home page consisting of a MENU, CART, ABOUT US tabs,
- 3)a Page where the bill will be generated

#### 3.1 Introduction

This Cafe Management System project is developed by using Java Programming Language. The main aim of this project is to develop an application which covers all the details of a user i.e., Name, billing and cart details and info regarding the order etc. All the record will be stored in PostgreSQL Database.

#### 3.2 Framework

##### 1) ER Diagram





## Relational Model

### Item

<u>Item_no</u>	Item Name	Item Cost
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### Order content

<u>Order_cn</u>	Order no	Item_no	Quantity
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### Order

<u>Order_no</u>	Username
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### CUSTOMER

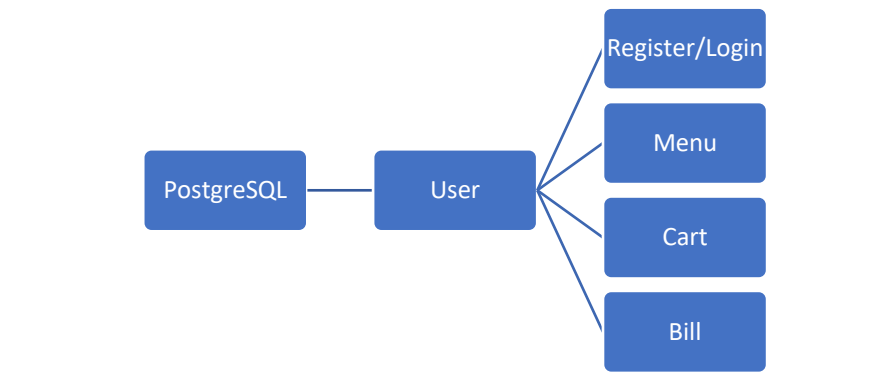
<u>Username</u>	Phone Number	Customer Name	City
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### BILL

<u>Bill Number</u>	Total
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### 3.3 Process Design



### 3.4 Details of hardware and software Hardware:

#### Hardware:

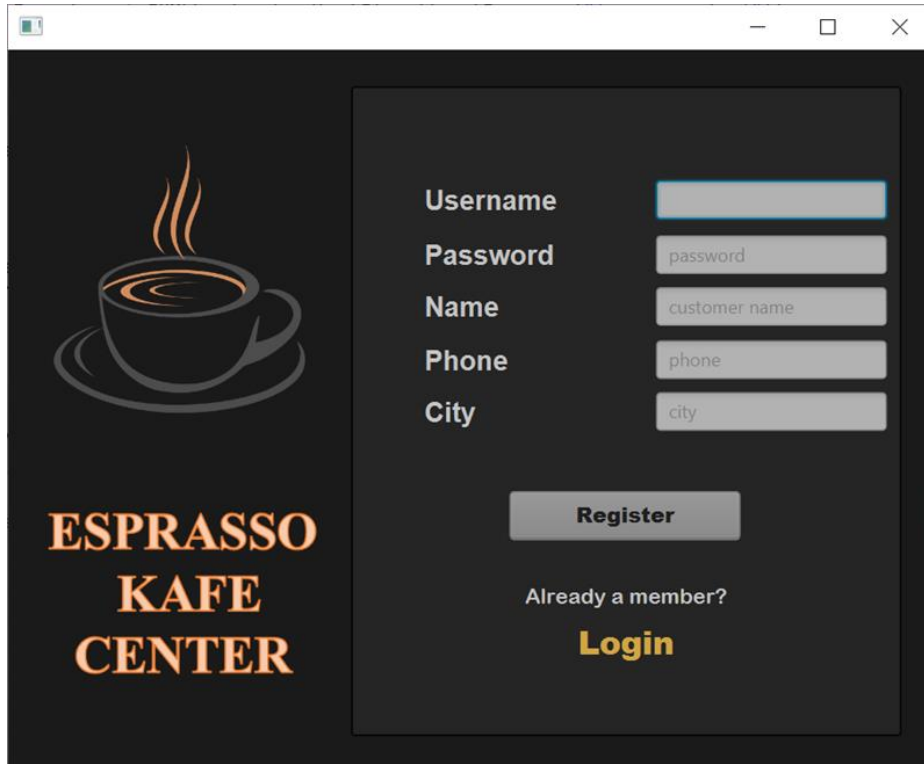
1. Intel Quadcore 1.5 GHZ Processor or above
2. Minimum 4 GB of RAM
3. Standard Keyboard and Serial Mouse

#### Software:

1. JavaFX
2. Scene builder
3. Eclipse IDE
4. PostgreSQL

### 3.5 Results

#### 1) SIGNUP PAGE



ESPRESSO  
KAFE  
CENTER

Username

Password

Name

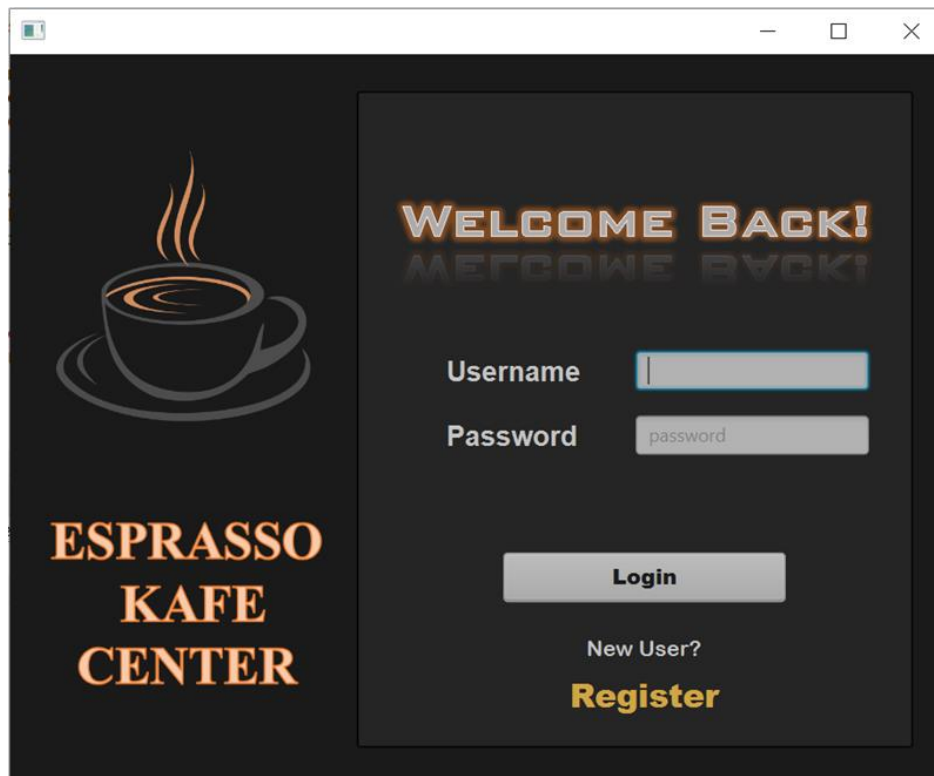
Phone

City

**Register**

Already a member?  
**Login**

#### 2) LOGIN PAGE



ESPRESSO  
KAFE  
CENTER

**WELCOME BACK!**  
MEGCOWE BVCK!

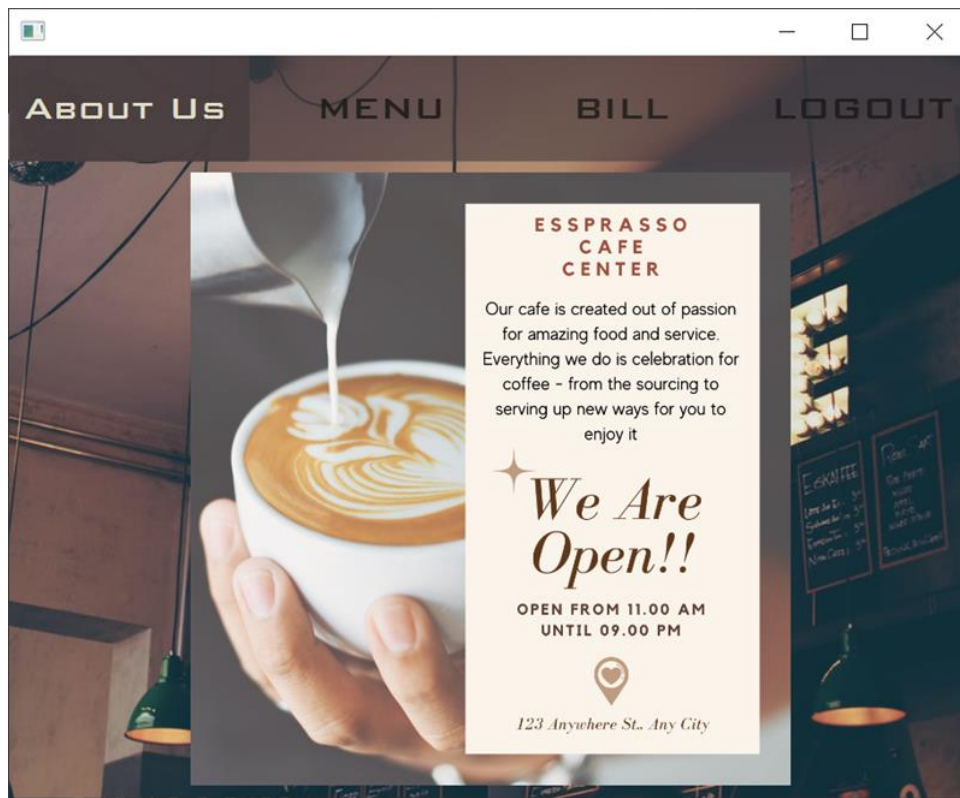
Username

Password

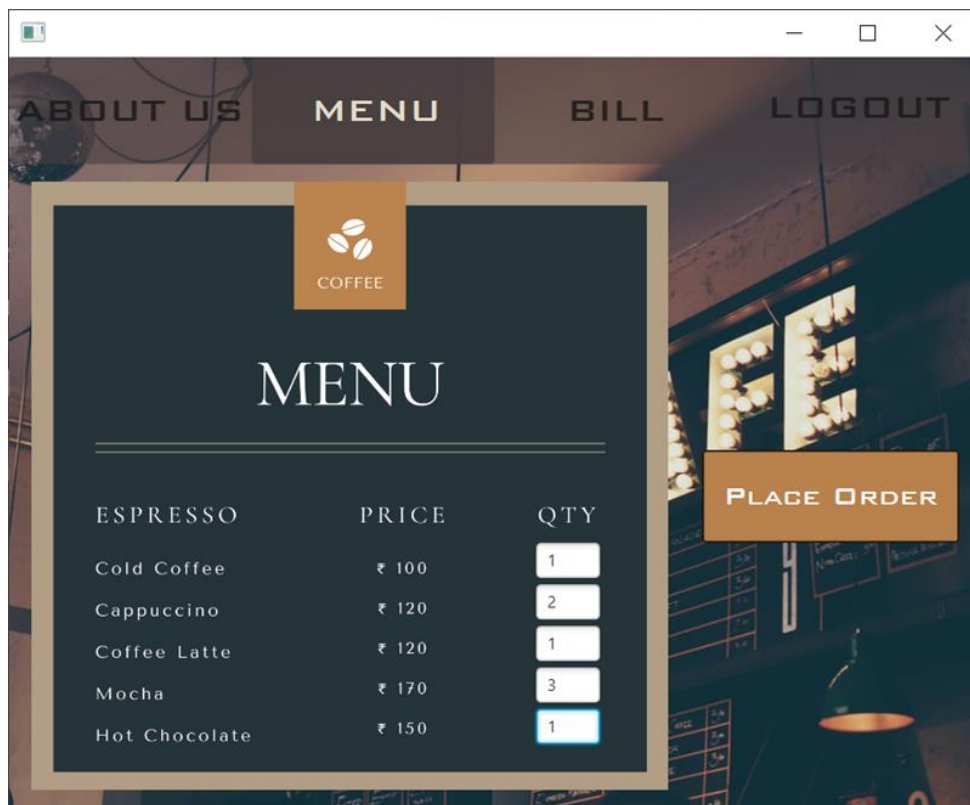
**Login**

New User?  
**Register**

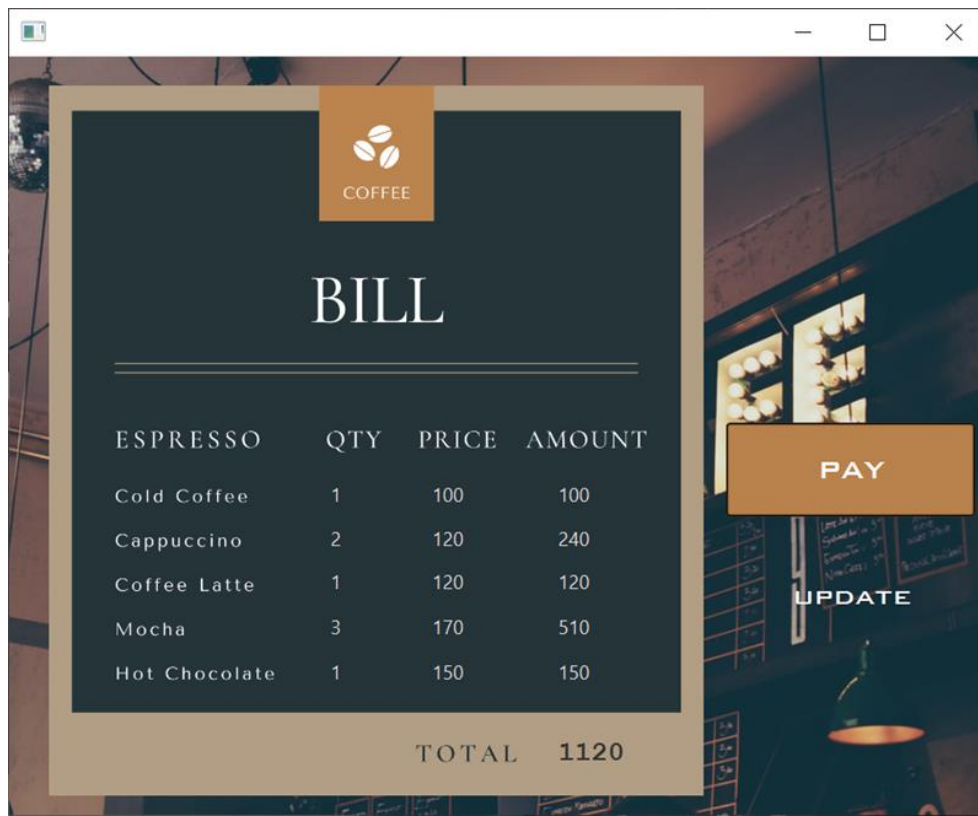
### 3) ABOUT US PAGE



### 4) MENU PAGE



## 5) BILL PAGE



#### **4. Future work**

1. In future, Espresso Kafe Center would be developed to provide a wide variety of fast food items.
2. Rating system would be made available.
3. Steps will be taken to improve the speed and performance of the application.
4. A smart search engine based on tags and filters would be developed.
5. In future, Espresso Kafe Center will be able to suggest the user based on their search history, ratings.
6. A more professional GUI must be developed.

#### **5. Conclusion**

Espresso Kafe Center is a JavaFX application developed as a handy one-stop destination for a user who is interested to enjoy amazing quality coffee items at a reasonable price. It is successful in meeting the application requirements and there is a lot of scope for future development. However, there are few challenges faced and drawbacks in this application, which would be taken care of during the future work.

#### **6. References**

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