Mini Project Report on

CAFÉ MANAGEMENT SYSTEM

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CERTIFICATE OF APPROVAL

This is to certify that the requirements for the WP mini project report entitled "CAFÉ MANAGEMENT" has been successfully completed by the following students:

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Introduction

1.1 INTRODUCTION

The title of the project is café management system

The project will help to handle the information accurately and can add and manage data in the system

Using the computerize method the user can handle sales information effectively rather than manual system

This project is basically made by keeping in mind the importance of time management and highlights the value of your time.

Our team also realizes the value of your time thereby we made a very intuitive, easy to use as well as very appealing to the eye, database managed café management system which stores your data securely in SQL format.

Our future goal for this project is to fix raised issues as well as create even more faster system with online synchronization

We will also strive to create better theme to make this project more suitable for users' personal comfort

Chapter 2

Objective

2.1 Problem Definition

● The reason to create this GUI was to generate a systematic database of the customers' information in a cafe

● It is very helpful in managing countless orders in a cafe

● It becomes easy for user to enter, maintain and retrieve customer information

2.2 System Requirements: -

Here are the minimum hardware and software requirements:

● Software Requirements:

Front End/Language Python

OS: Windows 7 or above

Software: MYSQL, PyCharm

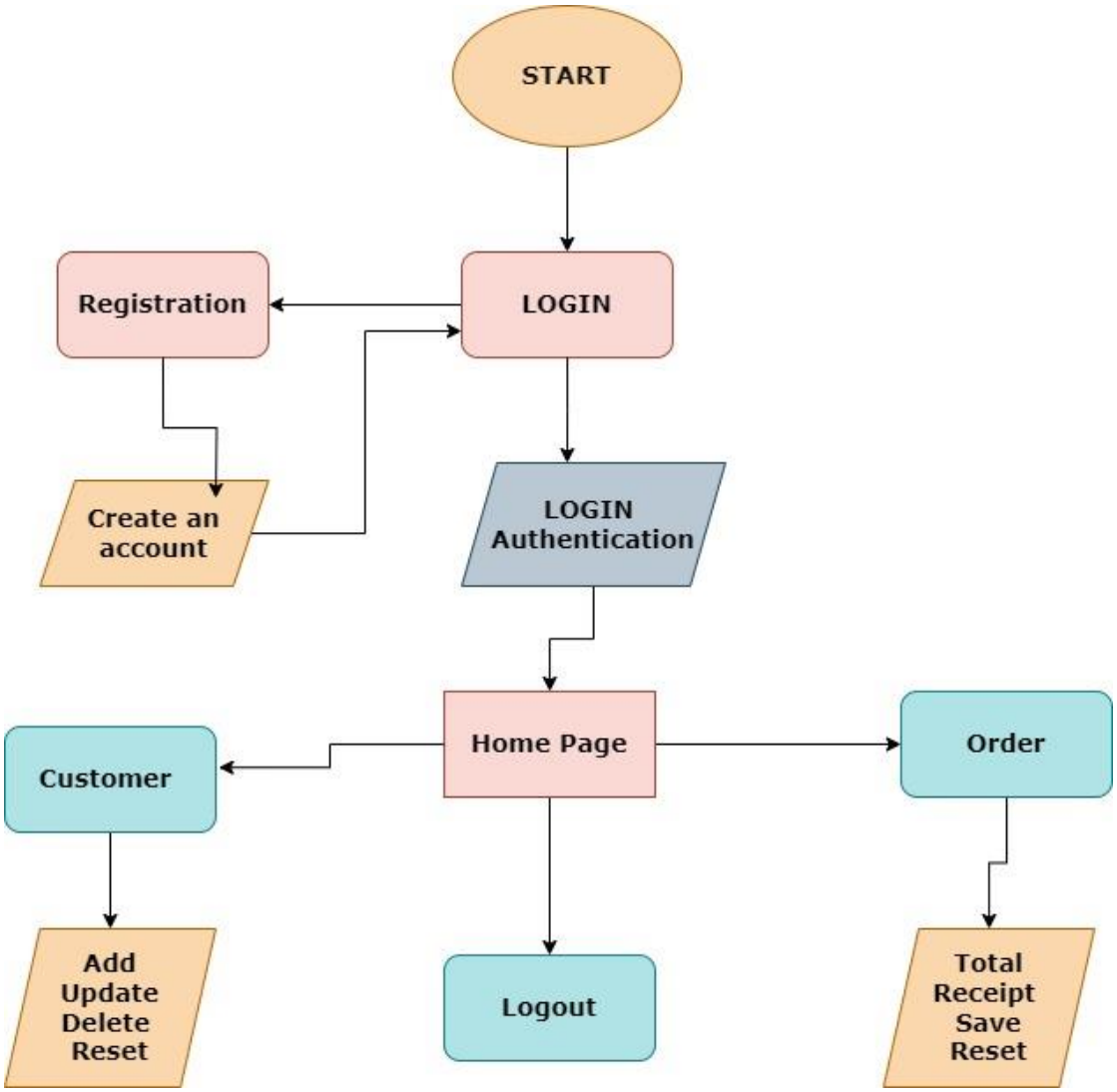
Browser: Google Chrome or any supported browser.

● Hardware Requirements: Ram: 2 GB minimum, 4 GB recommended
Processor: Intel Pentium 4 or higher

Chapter 3

Methodology

3.1 FLOW OF MODEL



PYTHON: Python is a general-purpose, versatile, and powerful programming language. It’s a great first language because Python code is concise and easy to read. Whatever you want to do, python can do it. From web development to machine learning to data science, Python is the language for you.

Python is dynamically typed and garbage-collected. It supports multiple programming paradigms, including structured (particularly procedural), object-oriented and functional programming. It is often described as a "batteries included" language due to its comprehensive standard library.

MYSQL: It is an open-source relational database management system, "SQL", the acronym for Structured Query Language. A relational database organizes data into one or more data tables in which data may be related to each other; these relations help structure the data.

SQL is a language that programmers use to create, modify and extract data from the relational database, as well as control user access to the database.

RDBMS like MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups. MySQL is free and open-source software under the terms of the GNU General Public License, and is also available under a variety of proprietary licenses.

Chapter 4

Implementation

4.1 System Overview

Café management system is a GUI based system that is able to serve any kind of user. Our main aim is to help people to manage their tasks and keep track of tasks and remind them.

- First the user will see a login page where he has to register first and then login through user Id.

- Then he will be directed the main page where he will see three buttons that are customer, order, logout

- In customer window the user will be able to enter the customer details.

- In order window the user will be able to place the customer's order and then provide them the bill

- In logout window on entering, it the user will be directed towards the login page again.

- Modules used:
  1. Tkinter: The reason to use tkinter for creating GUI is that it is the fastest and easiest way. Creating a GUI using tkinter is rather an easy task. We had use various function from tkinter module like font, style, messagebox.

  2. Time: The Python time module provides many ways of representing time in code, such as objects, numbers, and strings. It also provides

functionality other than representing time, like waiting during code execution and measuring the efficiency of your code.

3. Random: Python Random module is an in-built module of Python that is used to generate random numbers in Python. These are pseudo random numbers means they are not truly random. This module can be used to perform random actions such as generating random numbers, printing random value for a list or string, etc.

4. Pil: Python Imaging Library (PIL) is the de facto image processing package for Python language. It incorporates lightweight image processing tools that aids in editing, creating and saving images.

5.MYSQL connector: Python MySQL Connector is a Python driver that helps to integrate Python and MySQL. This Python MySQL library allows the conversion between Python and MySQL data types. MySQL Connector API is implemented using pure Python and does not require any third-party library.

4.2 Project Working with Snapshots

4.2.1 Registration Page

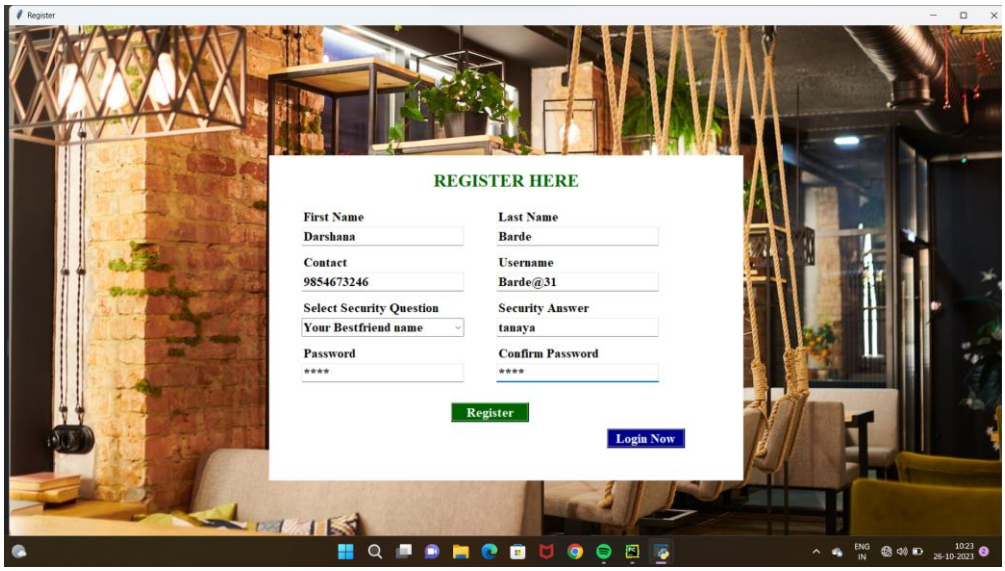
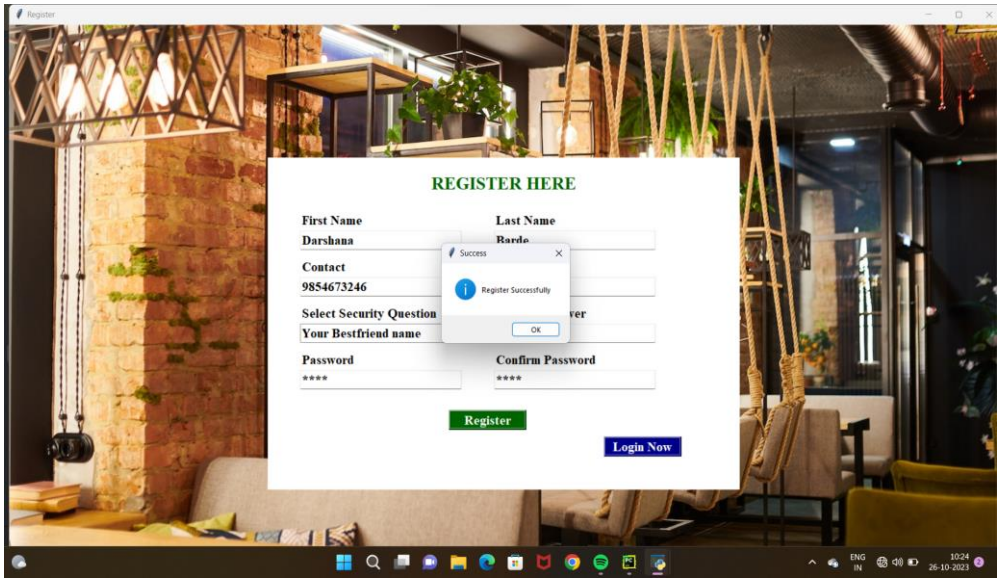


Fig 4.4.1



Fid 4.2.2

4.2.2 Main Page

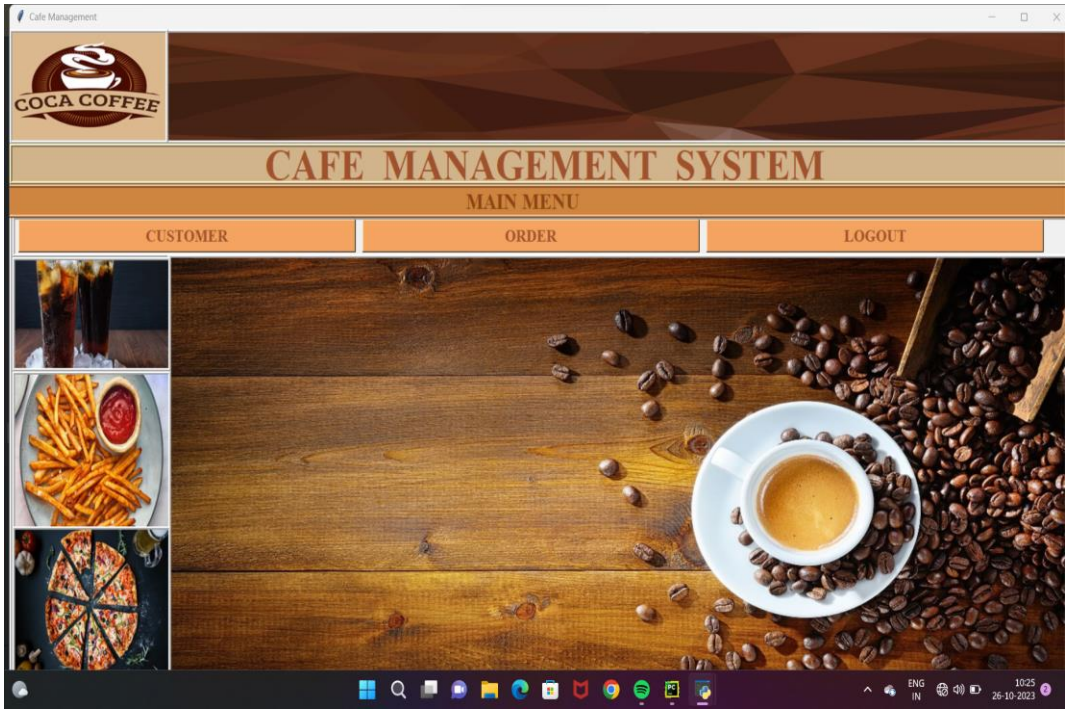


Fig 4.2.3

4.2.3 Customer Details Window

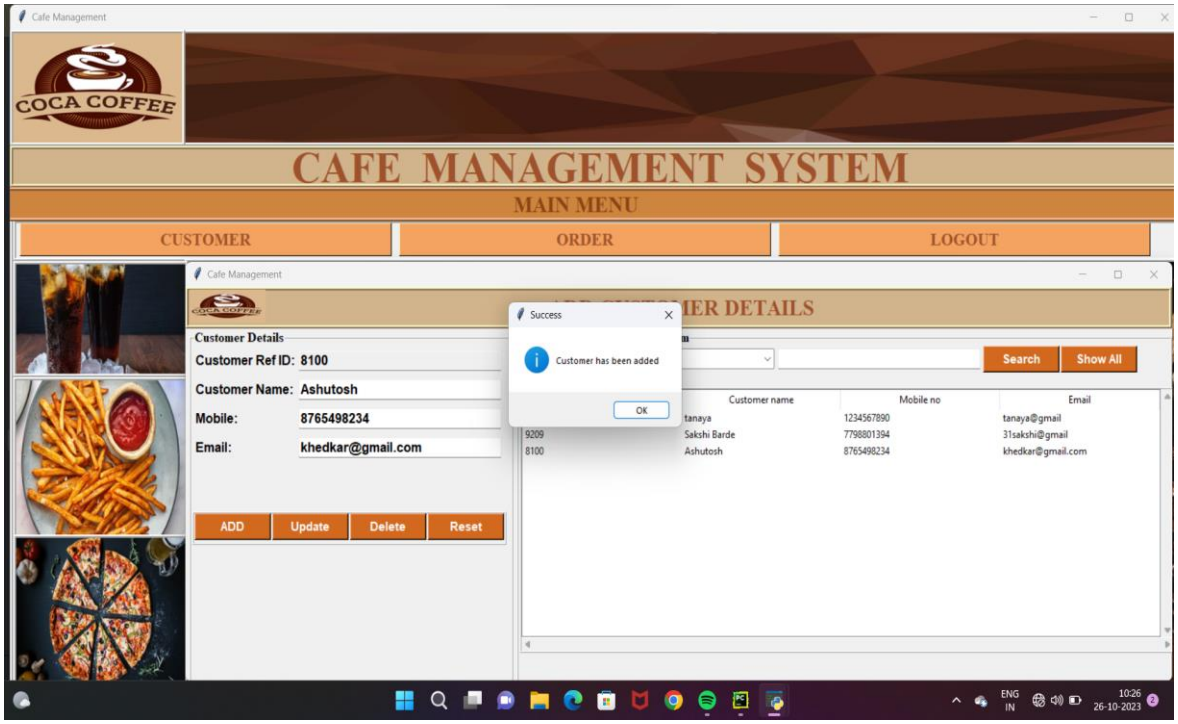


Fig. 4.2.4

4.2.4 Customer's Order Window

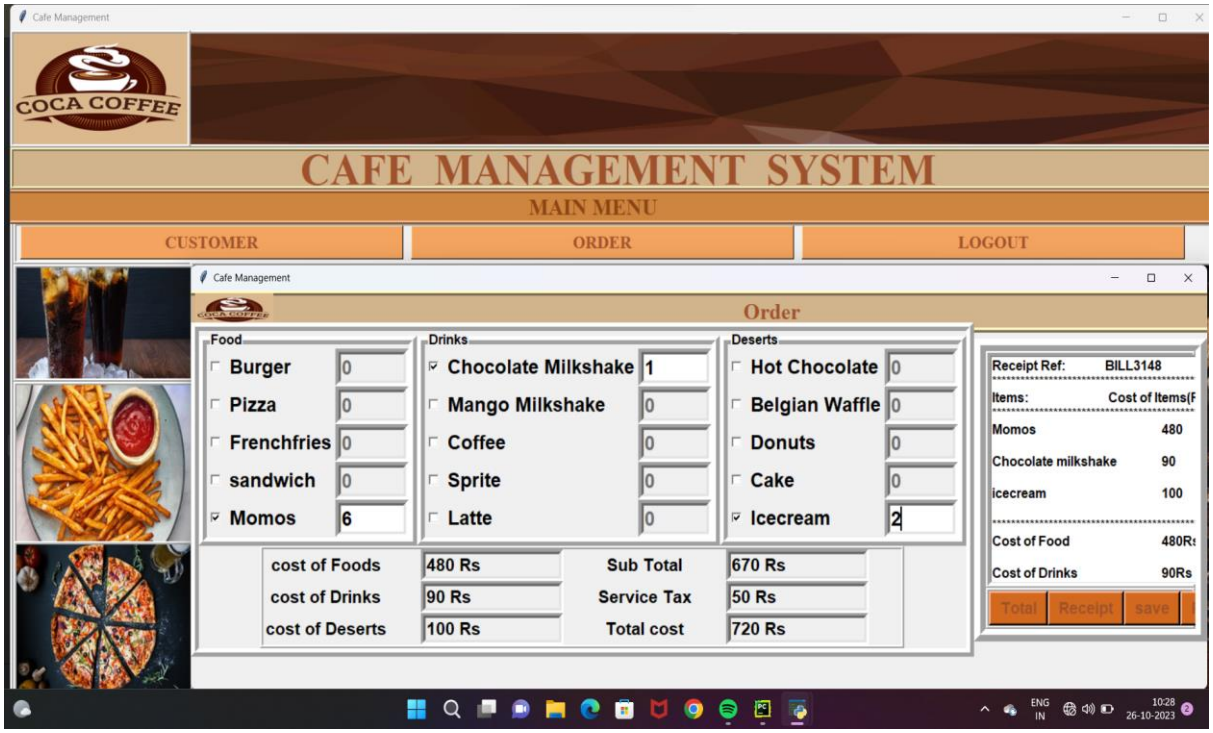


Fig. 4.2.5

Chapter 5

Conclusion

5.1Project Outcome

- In this Project we made a GUI for a café management system with the help of python(tkinter) and made a user-friendly GUI and learned about various modules in python language.

- Café management system1 helps to manage the work for any user.

5.2 Future Scope

- For future work the following features are to be added.
- The management system can be taken online.
- Adding multiple databases which can be accessed from any location in real time.