

A Mini Project Synopsis on
Ziggy-food ordering system

S.E. - I.T Engineering

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Academic Year: 2022-2023

CERTIFICATE

This to certify that the Mini Project report on **ZIGGY-FOOD ORDERING SYSTEM** has been submitted by Sumit Gusain (21104022), Soham Dalvi (21104010), Yuvraj Gage (21104019) and Anurag Gupta (21104109) who are a Bonafide students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfilment of the requirement for the degree in **Information Technology**, during the academic year **2022-2023** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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References: Core Python Programing, www.w3schools.com/python

Acknowledgement

CHAPTER 1

INTRODUCTION

Introducing our new app designed for the modern era of online food ordering. Our app has been developed using two powerful tools - Tkinter and MySQL Connector - to create a seamless and efficient experience for both customers and restaurant owners. With our app, customers can easily register, browse through various restaurant menus, and place their orders online. Customers will get coupon codes which they use during payment. The user-friendly interface created with Tkinter ensures a smooth and easy navigation experience, while the reliable data management capabilities of MySQL Connector ensure that all customer information, order details, and restaurant menus are stored securely and efficiently. For restaurant owners, our app provides a simple and effective way to upload and manage their menus, receive and process orders, and keep track of customer information. Our app is perfect for businesses of all sizes, from small cafes to large restaurant chains, looking to streamline their online ordering process and increase their customer base. Experience the convenience and efficiency of online food ordering with our powerful and flexible app. In addition to its user-friendly interface and efficient data management capabilities, our app offers a range of features designed to enhance the online food ordering experience. Customers can easily filter and sort through restaurant menus based on their preferences, add special instructions for their orders, and track their orders in real-time. The app also supports various payment options, including credit cards, UPI, providing a convenient and secure payment experience. For restaurant owners, our app provides valuable insights into customer behavior, enabling them to make informed decisions about their menu offerings and marketing strategies. Additionally, our app can be customized to match the branding and style of each restaurant, ensuring a consistent and seamless customer experience. With our app, customers can order food from their favorite restaurants anytime, anywhere, and restaurant owners can streamline their online ordering process, increase their revenue, and grow their customer base.

1.1. Purpose:

The purpose of Ziggy is to provide a convenient and efficient way for customers to order food online and for restaurant owners to manage their online ordering process. The app allows customers to browse through menus of various restaurants, place their orders, and track their orders in real-time, for example whether it has been placed, in process, or left for delivery. At the same time, restaurant owners can upload their menus, receive and process orders, and keep track of customer information. The app is designed to streamline the online food ordering process, provide a secure and convenient payment experience, and provide valuable insights into customer behaviour to help restaurants make informed business decisions. The app is perfect for businesses of all sizes looking to enhance their online ordering capabilities and increase their customer base. Also in situations like lockdown people can order food from their home. Customer can also compare the dishes between two or more restaurants.

1.2. Objectives:

- To make local food restaurant easily accessible. Restaurant managers can make their accounts by registering and customers can search for their restaurant or food.
- To reduce load on restaurant for delivery and also to save time of customers to call and go with the procedure to place an order.
- To make one stop solution for food ordering.
- To build a user friendly application.
- To provide contact less delivery. As everything will be online from placing order to payment.
- To save time of the customer and restaurant.
- To help customer to know new restaurants and eatery are available.
- To help restaurants know what are the needs of the customers and what their interest are in
- To increase marketing opportunities, helping small and new restaurants to boost their business and growth.

1.3. Scope:

1. Enhanced customer experience: Customers can enjoy a convenient and hassle-free ordering experience, from browsing menus to making payments, also giving customers coupons which they can apply during payment, all from the comfort of their own homes.
2. Increased efficiency: The app automates many of the time-consuming manual processes involved in food ordering, such as taking orders over the phone and processing payments.
3. Marketing opportunities: The app provides valuable insights into customer behavior, enabling restaurant owners to identify customer preferences and target marketing efforts accordingly.
4. Improved data management: The MySQL Connector allows restaurant owners to store and manage customer information, order details, and restaurant menus securely and efficiently.
5. Flexibility: The app can be customized to match the branding and style of each restaurant, ensuring a consistent and seamless customer experience.
6. Expansion opportunities: The app allows restaurants to reach a wider audience beyond their physical location, increasing the potential for growth and expansion.

CHAPTER 2

Problem Definition

One of the main problems with food ordering systems is the potential for errors in the ordering process. Customers may select the wrong item, specify incorrect customization options, or make mistakes when entering their delivery information or payment details. These errors can lead to delays in order processing, incorrect orders, and unhappy customers. Additionally, food ordering systems may face technical issues such as website crashes, payment processing failures, or difficulties in integrating with a restaurant's existing systems. These problems can result in lost orders and revenue for restaurants, as well as damage to their reputation. Finally, food ordering systems may also face security concerns such as the risk of data breaches or fraud, which can have serious consequences for both customers and restaurants. The customers can trust as these restaurants are real and are being managed by the automation. Also customers have to wait at the restaurant for their order to be made and to collect it , there can also be misplace of the orders.

CHAPTER 3

Proposed System

Features and functionality of our app:

1. **Feature 1 :**

It is possible for people to see the Menu of the eatery - People can look for restaurant and can go through restaurant's menu available on any specific day / time and can order the food. They can also see same dishes which are made by other restaurants and can compare differences between them. Thus giving them choices while placing order.

2. **Feature 2 :**

Customers can use coupons to order - Customer will get coupon on every order which they can apply / encash during payment for next orders. The coupons are set by the restaurant managers only for their dishes. Restaurant manager can add or remove existing coupon codes as per their plans / requirements. These coupons can be used by customer during payment process.

3. **Feature 3 :**

Customer can see the Opening time and closing time of Restaurant - Customer can place their order as per the restaurant's timings. Also they can search for same dishes of the other restaurants. Customer can also look for a specific restaurant's menu.

4. **Feature 4 :**

Customer will have an option for different payment gateways - Customer can pay with different payment methods like UPI / GPay / Net Banking / Debit / Credit Card / Cash on Delivery.

5. **Feature 5 :**

Multiple items can be selected / ordered – Customers can ordered the different items of their or families choices from different restaurants in single order.

CHAPTER 4

Project Outcomes

- User can log in.
- User can search for restaurants.
- User can search through the menu.
- User can choose the food they want to order from that particular menu.
- User can choose the option to order online or cash on delivery.
- Keeping the user engaged by giving coupon to use during payments.
- Users can try new food.
- Uplift the business and marketing of the restaurants.

CHAPTER 5

Software Requirements

Python Libraries Used :

1. Tkinter :

Tkinter is a Python module that provides a simple way to create graphical user interfaces (GUI) for desktop applications. It's a standard module in the Python programming language and allows developers to create windows, dialogs, buttons, text boxes, menus, and many other GUI elements.

2. mysql.connector:

mysql-connector python is a Python library that allows developers to connect to MySQL databases and execute SQL queries. It's an implementation of the Python Database API Specification v2.0 and supports a wide range of MySQL versions.

For Backend:

1. My SQL :

MySQL is a popular open-source relational database management system (RDBMS) that is widely used for building scalable and robust web applications. It's a client-server database system, which means that multiple clients can connect to the MySQL server simultaneously and perform various operations on the database. MySQL is developed by Oracle Corporation and is written in the C and C++ programming languages.

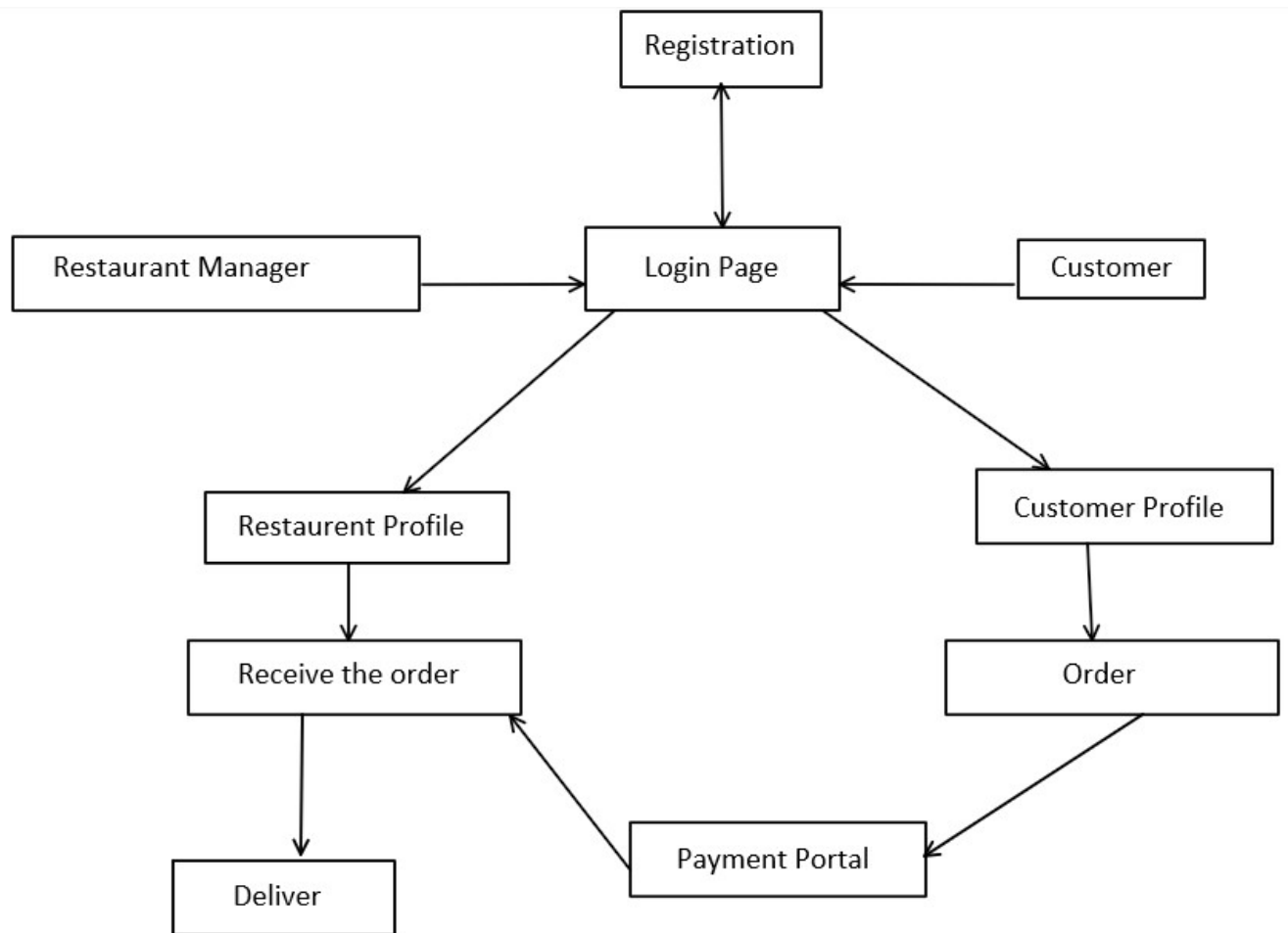
Operating System

Microsoft Windows 10

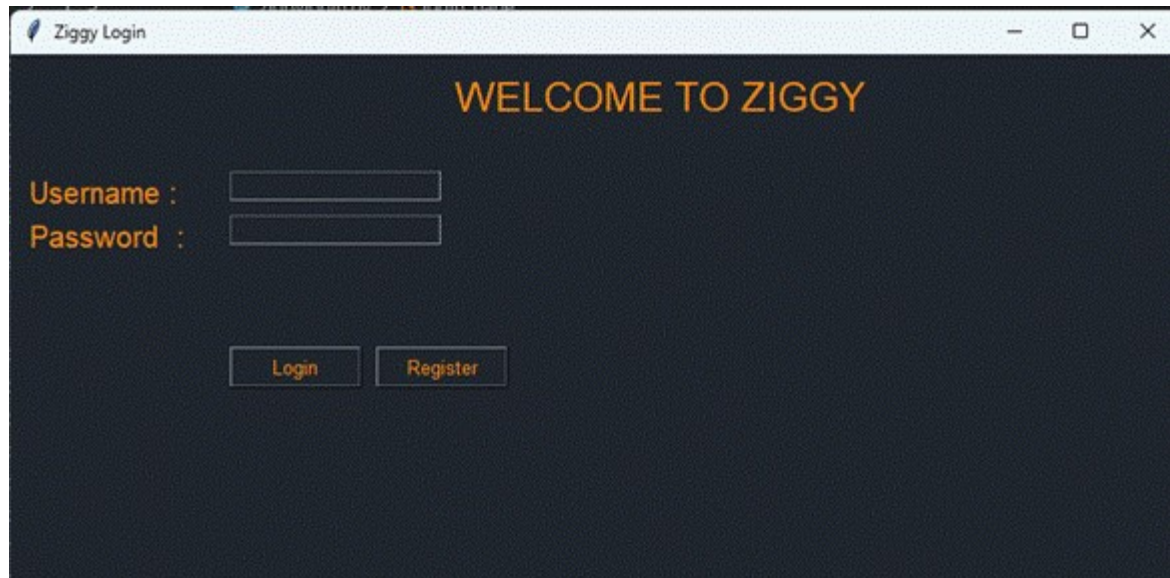
CHAPTER 6

Project Design:

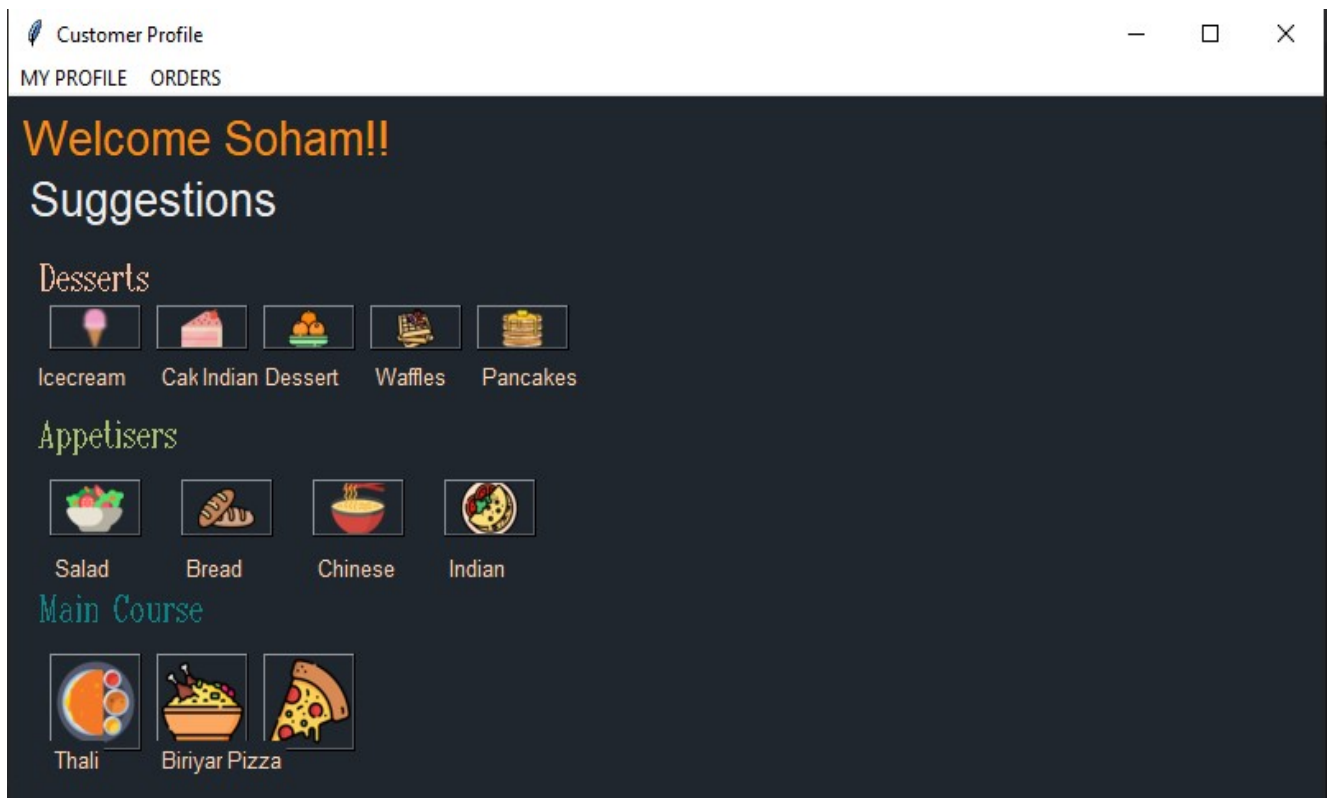
Block Diagram



Login page



Customer Profile



PROJECT SCHEDULING TEMPLATE

Sr. No	Group Member	Time duration	Work to be done
<u>1</u>	Anurag Gupta	1 st week of January	Implementing 1 st module/ functionality used Tkinter module to make GUI, added some function
		2 nd week of January	Testing 1 st module Tested the working of GUI
<u>2</u>	Sumit Singh Gussain	1 st week of February	Implementing 2nd module/ functionality Added some more gui , photos
<u>3</u>	Yuvraj Gage	2 st week of February	Implementing 3rd module/ functionality Connecting the GUI with database
<u>4</u>	Soham Dalvi	By the end of march month	Implementing ,applying logic of working of data in database

Chapter 7

Conclusion:

The app developed with Tkinter and MySQL Connector is a powerful tool for managing online food ordering. By allowing customers to register and browse through the menu of various restaurants, it provides a convenient way to order food online. The app can be used by a wide range of businesses, from small cafes to large restaurant chains, to streamline their online ordering process and increase their customer base. The use of Tkinter allows developers to create a user-friendly graphical interface that can be easily customized to match the look and feel of the restaurant's branding. Meanwhile, the MySQL Connector provides a reliable and efficient way to store and manage data such as customer information, order details, and restaurant menus. Overall, the app developed with Tkinter and MySQL Connector is a powerful and flexible solution for online food ordering that can be tailored to meet the needs of various businesses. Thus Ziggy can overcome some problems which are faced by the restaurant's managers / restaurants and customers. Providing a strong base for restaurants to grow their business and also letting customers know what's new restaurants are available. Providing customers with coupon code which they can use during payment process.

