**Real-time /Field-based Research Project Report**

**On**

**Online Food Ordering System**

A dissertation submitted to the Jawaharlal Nehru Technological University, Hyderabad in partial fulfillment of the requirement for the award of degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

Submitted

by

**G M Teja (22B81A05W8)**

**K Harshith Rao (22B81A05T5)**

**P Devendhar Sai (22B81A05S8)**

Department of Computer Science and Engineering

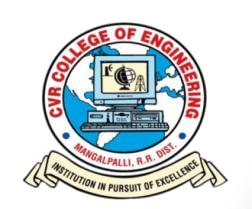
**CVR COLLEGE OF ENGINEERING**

(An UGC Autonomous Institution, Affiliated to JNTUH, Accredited by NBA, and NAAC)

Vastunagar, Mangalpalli (V), Ibrahimpatnam (M),

Ranga Reddy (Dist.) - 501510, Telangana State

**2023-24**

****

**CVR COLLEGE OF ENGINEERING**

*(*An UGC Autonomous Institution, Affiliated to JNTUH,

Accredited by NBA, and NAAC)

Vastunagar, Mangalpalli (V), Ibrahimpatnam (M),

Ranga Reddy (Dist.) - 501510, Telangana State.

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled **“Mentor-Mentee Management System”** is being submitted by **G M Teja (22B81A05W8), K Harshith Rao (22B81A05T5), and P Devendhar Sai (22B81A05S8)** in partial fulfillment of the requirement for the award of the degree of **Bachelor of Technology** in **Computer Science and Engineering,** during the academic year 2023-2024.

**Professor-in-charge projects**

**(Dr. S. Suguna Mallika) Professor and Head, CSE**

**(Dr. A. Vani Vasthala)**

**DECLARATION**

I hereby declare that this project report titled “**ONLINE FOOD ORDERING SYSTEM**” submitted to the Department of Computer Science and Engineering, CVR College of Engineering, is a record of original work done by me. The information and data given in the report is authentic to the best of my knowledge. This project report is not submitted to any other university or institution for the award of any degree or diploma or published at any time before.

**G M Teja (22B81A05W8)**

**K Harshith Rao (22B81A05T5)**

**P Devendhar Sai (22B81A05S8)**

Date: 30-Mar-2024

Place: Hyderabad

**TABLE OF CONTENTS**

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | Page No. |
|  |  | **ABSTRACT** |  |
| 1 |  | **INTRODUCTION** | 6-7 |
|  | 1.1 | Motivation | 6 |
|  | 1.2 | Problem Statement | 6 |
|  | 1.3 | Project Objectives | 7 |
|  | 1.4 | Project Report Organization | 7 |
| 2 |  | **LITERATURE REVIEW** | 8-9 |
|  | 2.1 | Existing Work | 8 |
|  | 2.2 | Limitations of Existing work | 9 |
| 3 |  | **REQUIREMENT ANALYSIS** | 10 |
|  | 3.1 | Software requirements | 10 |
|  | 3.2 | Hardware requirements | 10 |
|  | 3.3 | User requirements | 10 |

**Abstract**

Our project aims to place the order at restaurant through Electronic devices such as mobile. A Food ordering System at restaurant is a process that allows customers to place order through a mobile app. This system makes more convenient for both customers and the restaurant staff. The customer need to scan the QR code placed on the table. The QR code Web link asks the table number and displays Menu or List of items in the restaurant. customer need to select the items which he or she like to place the order. After selecting order, customer needs to click on place order. As customer places order, the restaurant staff receives the order and customer gets the bill in the Mobile. The entire application is written in java language using Gul and Swings in java script and Python. This system improves efficiency and accuracy in taking and preparing orders. There is no need to Wait for the restaurant staff to place the order. This system reduces the staff requirement of the restaurant. Overall this food ordering system enhances the customer by making ordering process faster and more convenient with reducing the chances of errors.

**1. INTRODUCTION**

In today's Increasing population, the demand for restaurant food has increased rapidly. For important occasions people choose to go to restaurant and have food. With increase in customers the restaurant management facing issues in taking orders faster. This project eases the way of taking orders from the customer. The restaurant management can effectively manage orders and save time of the customers.

* 1. **Motivation**

Time-saving: It saves time for both customers and restaurants. Customers can avoid long queues at restaurants or waiting on hold over the phone, while restaurants can streamline their order-taking process, reducing the time spent on manual order entry.

Convenience: Online food ordering systems offer unmatched convenience to customers. With just a few clicks or taps, users can browse through a variety of food items, explore menus, place orders, and have food delivered to their table without the need of waiters.

To help such issues more effectively, we have planned to create the food ordering system through mobile. It provides a platform to help people not to wait for the waiter to place order.

* 1. **Problem Statement**

"In today's fast-paced society, the demand for convenient and efficient food delivery options has increased a lot. However, despite their popularity, these platforms also have their challenges. The proposed study aims to order the food without waiting for the waiter to take customer order. By addressing key issues such as time constraint, customer comfort, cost-effectiveness, and customer service quality, this project aims to provide the effectiveness and sustainability of online food ordering systems in the modern restaurant industry."

* 1. **Project Objective**

The main objective of the project is to save the time of the customer in the restaurant. The customer need not to wait for the waiter to place the order. He/she can place the order through his mobile by scanning the qr code. The restaurant management can also efficiently handle the orders through online Restaurant management can reduce their man power with this project.

* 1. **Project Report Organization**

The project is about creating a website for ordering food online, making it easy for customers to find restaurants, check menus, place orders, and pay securely. The website also helps restaurants manage their menus and process orders smoothly. We use common web technologies like HTML, CSS, JavaScript, Node.js, Express.js, and MySQL for storing data. Features include user registration, order tracking, and special dashboards for restaurants. We test the website to make sure everything works well before launching it. After launching, we continue to fix any issues and improve the website based on userfeedback.

**2. LITERATURE REVIEW**

Studies identify challenges faced by restaurants in implementing online ordering systems, such as when a customer does not have electronic gadget or mobile phone. Customer faces issues such as shy, fear etc to order the food. Sometimes the waiter may behave rudely with the customer.

**Effectiveness of Online Mentoring Systems:**

**Time Saving:** This system provides the customer to order food without wasting time to place the order.User can freely order food without any hesitation or fear .User can himself calculate the bill while ordering and place the order according to customer budget.The restaurant management may not need more number of workers in the restaurant.

* 1. **Existing Works**

Till date this system has not been introduced in any of the restaurant there has been attempts to take order through online but prototype is a bit different. In the existing prototype the manager takes the order from the customer manually and orders the food to the restaurant management through online .This prototype doesn’t give any freedom to the customer to order his wish food.

In our project the user themselves selects the items on his freedom without any hesitation and worry about, what manager or waiter thinks about.

Here the customer doesn’t need to wait for the manager or waiter to place the order

He or she can order the food from his mobile phone. In this project there is no need of mediator like waiter in between the customer and the restaurant management they both

Interact directly .

* 1. **Limitations of Existing Works**

Technical Issues: Online ordering platforms may experience technical glitches, server or connectivity problems, leading to order errors or delays in processing.

Operational Challenges: Integrating online orders with existing restaurant operations can be complex, leading to issues such as miscommunication between kitchen staff and delivery personnel and coordination challenges during peak hours

**3.REQUIREMENT ANALYSIS:**

**3.1 Software Requirements:**

Operating system: Windows 10

Coding language: Java

Backend: Html, CSS,

**3.2 Hardware Requirements:**

* + - The most recent version of Google Chrome, Firefox, Internet Explorer, or Safari.
    - Processor (CPU): A multi-core processor e.g., Intel Core i5 or AMD Ryzen
    - Memory (RAM): Aim for at least 4GB of RAM.

**3.3 User Requirements:**

Placing Orders:

Make it easy for users to choose what they want to order, including browsing menus,

Scanning QR code

Customer need to scan the qr code placed on the table to view the menu of the

restaurant

Delivery Details:

Customer need to enter the table number and customer name to place the order.