Project Title: Food Delivery App for IIITG

Category: Web Application

PURPOSE

The purpose of developing this “Online Food Delivery system” is to allow the students to go through the menu and popular dishes available at the food stalls present in the institute, place their orders and get them delivered according to their convenience.

SCOPE

It will enable college students to order food online and get it delivered, thus reducing long queues of customers at the counter and also reducing the workload of the employees at the food stalls (like canteen, Nescafe) available at the institute. This is restricted to the college stalls only. These food stalls will be able to update their menu and rates also. It will also display the popular dishes of the food stalls based on the previous order history. Improved and efficient services are provided to the customers by the inclusion of the internet in the business. As a business point of view it gives you an edge over other competitors.

INTRODUCTION

Introduction contain the following sub categories:

Existing System

The present system is a manual system or a semi-automated system. In the existing system, food stalls are based on pen-paper records of the orders placed, cash payment and long queues of the students at the counter. This results in crowded canteens where ordering food and having it becomes time consuming.

Disadvantages of the existing system

- ➢ Students need to physically go to the stalls to place their orders.
- ➢ Stalls can be crowded at times due to which students face long queues to place orders.
- ➢ Crowded food stalls can be tedious for the employees to manage.
- ➢ Students need to wait at the food stalls while the food gets prepared.
- ➢ Crowded food stalls are not in accordance with the current COVID protocols.

Proposed System

The online food ordering system aims to give the students a better experience as compared to the existing system because of various privileges it provides. The system after careful analysis has been identified to be presented with the following modules:

- ❖ **Food stall registration:**
  Food stalls are registered on the portal over which they can display their food menu and other related information.

- **Authentication:**
  At the time of registration of the food stalls, Username and Password will be generated which will be used further to login to the portal.
- **Easy access to students:**
  Students get easy access to the available food stalls and their menu.
- **Popular dishes:**
  Based on the previous order history, popular dishes of the stalls will be displayed to the students which will be helpful for them.
- **Online ordering system:**
  Students can order their food online without any need of physical visit to the food stalls.
- **Track order:**
  After placing an order, students can track its delivery.
- **Pre-Order:**
  Students can schedule the time of delivery and also add extra comments (customization).
- **Payment Gateway:**
  An instant, secure and convenient online payment gateway will be time-efficient for the students.

Advantages for Students
Advantages for the students are explained below:

- **Online:**
  Students no longer need to physically go to the stalls to order food and have it. It can be done online using this web application sitting inside your room.
- **Convenience:**
  Students can order food anytime according to their convenience.
- **Time Saving:**
  The process of ordering food no longer remains time consuming.
- **Stalls & food options:**
  Students can easily go through the food stalls available at the institute and browse the available food options there.
- **Easy Payment:**
  Cashless payment through the payment gateway will be helpful for the students.

Advantages for Food Stall Employees
Advantages for the food stall employees are explained below:

- **Efficient order management:**
  It would help the employees at the food stalls to efficiently manage and process the orders in a systematic way.
- **Easy market:**
  Reach of the food stalls across the students increases in a significant way.

- **Easy Payment:**
  Cashless payment through the payment gateway will reduce the workload of the employees at the food stalls. They no longer need to maintain pen-paper records of the bills and cash payment options.

FUNCTIONAL REQUIREMENTS

Functional requirements of our system are explained below:

- **Registration:**
  Application provides a link for the Users/Client Registration.
- **Log In:**
  Administrator and Client can log in by entering username and password and manage their work on a website.
- **Save information:**
  Client enters all its necessary information by filling a personal info form and system save that information.
- **Change requirements:**
  Customers can change any of their information any time.
- **Food Menu:**
  Admin can insert, update and delete the food items from the menu list
- **Show Food Menu:**
  There is a list of all types of food the company is dealing with the available themes.
- **Modify the Menu:**
  The stalls admin can add or remove the different dishes .
- **Record Order Details:**
  Customer can select food items from menu and can add the desired food items to The cart. Customer can place the order and gets the confirmation against that Order in the form of order no
- **Show Order Status:**
  Customer can check the status of his/her placed order.
- **View Orders:**
  Admin can view the placed order and delivered orders
- **Payment:**
  For customers there are many type of secure billing will be prepaid as debit or credit card.

NON FUNCTIONAL REQUIREMENTS

- **Portability:**
  The system shall be able to use the app in different platforms like different versions of OS/Mobiles. Hence, responsive.
- **User friendly:**
  System can be easily used by the customer.
- **Efficient:**
  In case of clashes of order, it places order in the queue on the basis of order time.

- **Safety:**
  Data in the database of the system should not be lost or damaged.
- **Privacy:**
  Personal data of the system should not be disclosed to anyone.
- **Security:**
  Secure access of confidential data(customer information).

SOFTWARE TOOLS

Database Server: MongoDB
Client: Any web browser
Development Tools: VSCode
Programming Language: JavaScript

DEPLOYMENT

Operating System Server: Windows 10, Linux, UNIX

HARDWARE SPECIFICATION

Processor: Intel Core i5
RAM: 4GB
Hard Disk: 500 GB