A

PROJECT PROPOSAL

on

Web Based platform for pre ordering food at various food outlets

for

B.Tech. in Computer Science and Engineering

Submitted to

Department of Computer Science and Engineering,
Annasaheb Dange College of Engineering & Technology,
Ashta, Sangli.
(An Autonomous Institude Affiliated to Shivaji University Kolhapur)

by

Mr. Rohit Gawas

Mr. Shivam Nimbalkar

Mr. Aditya Vyavahare

Mr. Aryan Magdum

Under the Guidance of

Asst. Prof. Vishal Kamble

Academic Year

2021-22

Abstract

A fast food restaurant also known as quick service restaurant (QSR) within the food-service industry is a specific type of restaurant characterized both by its fast food cuisine and byminimal table service. Food served in fast food restaurants is offered from a limited menu,cooked in bulk in advance and kept hot, is finished and packaged for order and is usuallyavailable ready for pickup or to be delivered though seating may also be provided. Thecustomers presently spend an average of 60 minutes per day going to the restaurant, selectingtheir meals and paying. Some restaurants have the provision of customers making a call to therestaurant in advance to order a meal to be ready for them for pick or to be delivered to them.

Some of the customers don't always get the selection they want because the restaurants run outof certain items or because there is no provision of ordering custom meals.This project is aimed at developing a complete online ordering system for use in the foodservice industry which will allow the restaurants to quickly and easily manage an online menuwhich customer can browse and use to place orders with just a few clicks. The customers willhave to choose whether they want the food to be delivered to them or it will be packaged for pick up and the payment method will be upon delivery or pick up. There will be a systemadministrator who will have the right to add and manage user accounts, a manager who will bemanaging product and orders and last but not least a meal deliverer who will be dealingspecifically with pending deliveries. The customer will be in a position to view the products,register and place an order. There will be a confirmation receipt for each and every order made by the customer which can be printed.

The development of this system will be based on CSS and HTML as the programming languages while Mongo db as the database of the system. HTML language is advantageous due to its easy to use and learn validation properties while Mongo db has better advanced features and properties, has good security, is open source and has cross platformoperability.

Contents

1 Introduction

Computers have become part of the life for accessing almost any kind of information. Life in the 21st century is full of technological advancement and in this technological age it is very difficult for any organization to survive without utilizing technology. The World Wide Web contributes greatly to the creation of an ever-increasing global information database. It could also be used as a mechanism to share information within an enterprise.

In today's age of fast food and take -out, many restaurants have chosen to focus on quick preparation, offering a rich dining experience. Unti lvery recently, all of these , but there are manydisadvantages to this system, including the inconvenience of the customer needing to have a physical copy of the menu, lack of a visual confirmation that the order was placed correctly, and the necessity for the restaurant to have an employee answering the phone and taking orders.

What I propose is an online ordering system, which is a technique of ordering foods online applicable in any food delivery industry. The main advantage of my system is that it greatly simplifies the ordering process for both the customer and the restaurant. When the customer visits the ordering webpage, they are presented with an interactive and up-to-date menu, complete with all available options and dynamically adjusting prices based on the selected options. After making a selection, the item is then added to their order, which the customer can review the details of at any time before checking out. This provides instant visual confirmation of what was selected and ensures that items in the order are, in fact, what was intended.

This system also greatly lightens the load on the restaurant's end, as the entire process of taking orders is automated. Once an order is placed on the webpage, it is entered into the database and then retrieved, in pretty much real-time, by a desktop application on the restaurant's end. Within this application, all items in the order are displayed, along with their corresponding options, in a concise and easy to read manner. This allows restaurant employees to quickly go through the orders as they are placed and produce the necessary items with minimal delay and confusion.

1.1 Background and Context

The main advantage of my system is that it greatly simplifies the ordering process for both the customer and the restaurant. When the customer visits the ordering webpage, they are presented with an interactive and up-to-date menu,complete with all available options and dynamically adjusting prices based on the selected options. After making a selection, the item is then added to their order, which the customer canreview the details of at any time before checking out. This provides instant visual confirmationof what was selected and ensures that items in the order are, in fact, what was intended.

1.2 Purpose

To increase efficiency and improve services provided to the customers in the restaurant through better application of technology in daily operations.

2 Literature Survey

Online Food Ordering System is the system where we can order the food item through internet with just one click, which can make our daily life easy and faster.Presently the customers spend an average of 1 hour per day going to the restaurant,selecting their food and paying. Some of the customers don't always get the selection they want because the restaurants run out of certain items or because there is no provision of ordering custom foods.

Previous works:

Through our research we determined that the system that exits in today's date is not so efficient like if we want to order a food then we need to call to a restaurant thanask for the menu and price and soon, that is too long process and not trust worthy tooand there may be lots of confusion which may not build a good relation betweenrestaurant and the

customer. We are not saying that this process is totally wrong oruseless but we can make it better and trust worthy through internet (Online foodordering) system. Where we can see food menus with its actual price, which willavoid a long quotes and confusions of both restaurants and the customers too..

Table 1: Comparison of selected approaches

Paper/year	**Approach Used**	**Limitations**	**Dataset Completion**	**Performance**
[1]/2011	HTML	Internet Connectivity	Own dataset	Accuracy 82.5%

3 Problem Statement

The challenges encountered by the existing system serve as a major drawback to therealization of efficiency and customer satisfaction. The experience of ordering in most fast foodrestaurants is not pleasant for the customers. Customers will have to make long queues before placing their orders especially during peak hours and then the ordering staff will record customer orders. Having placed their order, the customer must then wait near the counter until their order is ready for collection. The other problem in the food service industry is that restaurants are notrealizing the efficiencies that would result from better application of technology in their dailyoperations. Fast food business in a very competitive business and one way to stand out fromcompetitors is through improving the business process where business process automation canassist business improvement. The other problem with the current system is that the customers arenot able to see the ingredients of the meals before they place their order and also they only haveto pay for an order online.

4 Objectives

- To increase efficiency and improve services provided to the customers through better application of technology in daily operations.
- To be able to stand out from competitors in the food service industry
- To enable customers to order custom meals that aren't in the menu
- To enable customers to have a visual confirmation that the order was placedcorrectly
- To enable customers to know food ingredients before ordering
- To reduce restaurant's food wastage
- To ensure correct placement of orders through visual confirmation
- Improve efficiency of restaurant's staff
- Eliminate paper work and increase level of accuracy
- Increase speed of service, sales volume and customer satisfaction
- To increase efficiency by shortening the purchasing time and eliminating paper work like receipts through online transaction
- To be able to stand out from competitors by automating daily operations whichwill give food service providers the opportunity to increase sales
- To reduce restaurants food wastage and increasing efficiency of the restaurants staff by enabling the restaurants staff to know what food items the customers wantin advance.
- To reduce time wasting by eliminating long queues

5 Scope

Online ordering system will be a web based application whose main language of programming will be HTML and CSS. Its main aim is to simplify and improve the efficiency of the ordering process for both customer and restaurant, minimize manual data entry and ensure data accuracyand security during order placement process. Customers will also be able to view product menusand there ingredients and be able to have a visual confirmation that the order was place correctly.

5.1 Limitation of the System

- Requires internet connection and also the user must be computer literate.
- The set back of the system is that the customers targeted are adults with access to computer systems/ Mobile Devices while the minors might have to go physically to the restaurant to purchase the food that they want or order food the food with the help of an adult.
- The other limitation is that the system will only be convenient to people with a small geographical region, basically just around the restaurant i.e. can only help a smallarea

6 Proposed Work

6.1 Methodology

- Development of computerized systems requires analysis of the process to be digitized inorder to enable a correct system, a system that functions as required and to assist the potentialusers of the system understand the general functionality of the system. The analysis specifies thesystem's objectives and constraints to which designers have to comply. The purpose of doing analysis is to transform the system's major inputs into structured specification
- This is a brief structure which depicts the environment in which a software system exists andhelps in communicating about what lies outside the system boundary.

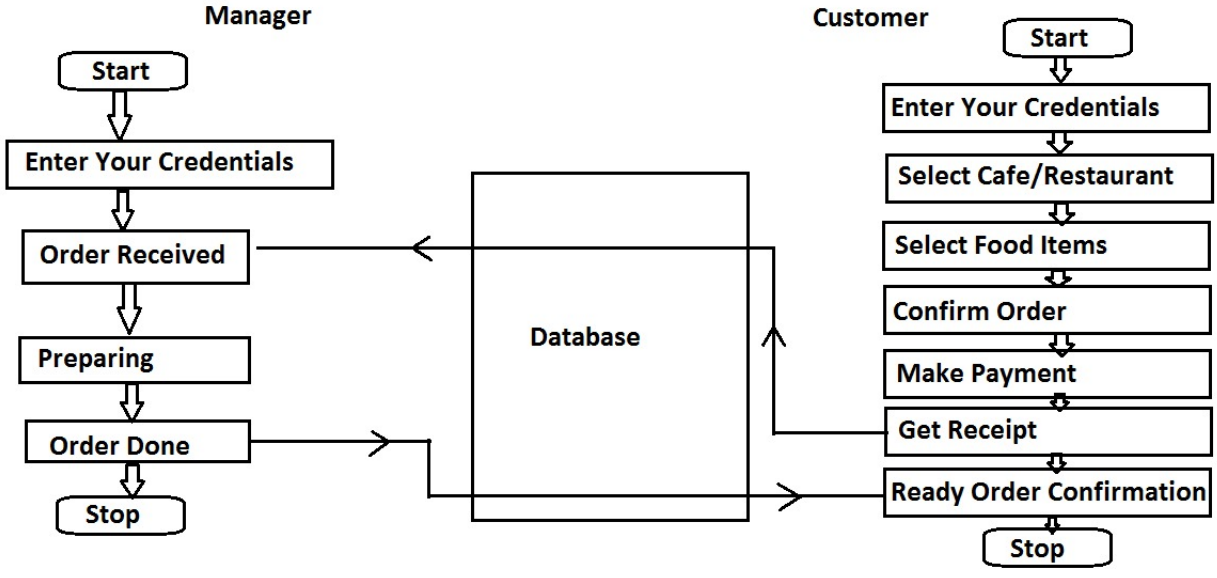

Figure 1: A Block Diagram showing order management

It is a two-dimensional diagram that explains how data is processed and transferred in asystem. The graphical depiction identifies each source of data and how it interacts with other data sources to reach a common output.

Functionalities provided:

- Create usernames and passwords
- View/ edit / delete user accounts

Customer module

Functionalities provided:

- View product's list
- Register
- Place orders

Manager module

Functionalities provided:

- Create product categories and functionalities
- Edit / delete product categories and descriptions

6.2 Software and Hardware requirements and availability

6.2.1 Software Requirement

- Operating system: Windows XP / windows 7
- Technology : HTML, CSS, NodeJS
- Database : MySQL
- Antivirus software
- Backup and Data Recovery software

6.2.2 Hardware requirements

- Processor: Intel dual core or above
- Processor Speed: 1.0GHZ or above
- RAM: 1 GB RAM or above
- Hard Disk: 20 GB hard disk or above
- Printer for printing reports
- Uninterruptible power supply to ensure a constant access of data.
- USB flash disk(At least 2GB)

7 Schedule

Figure 2 shows the project schedule to be used to implement the project.

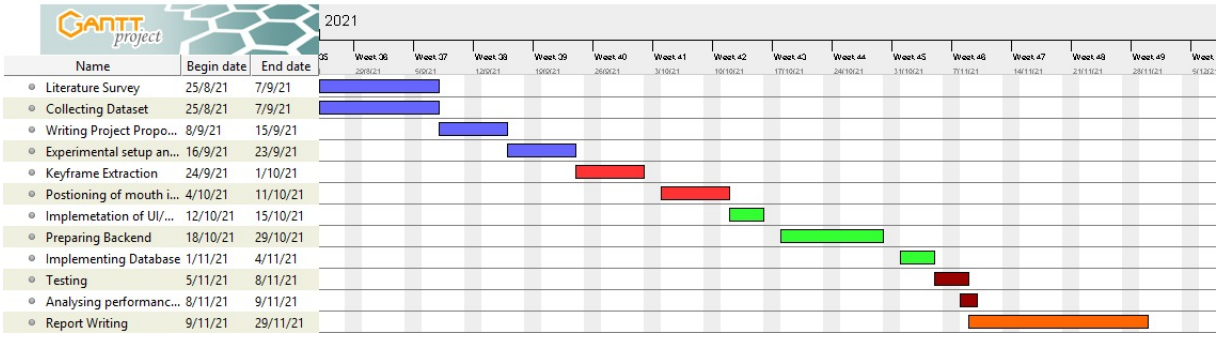

Figure 2: Project Schedule

References

Follow IEEE guidelines and styles to list the references. Refer to the IEEE-Reference-Guide.pdf

1 Silvio Peroni, Francesco Osborne, Angelo Di Iorio, Andrea Giovanni Nuzzolese, "HTML,"

2 Adam Trachtenberg, PHP cook Book, 2003Michael Morrison , Head First PHP and MYSQL, 2008

Group Members

Sr.NO	Name of the Student	Contact No.	Email ID	Signature
1	Rohit Gawas	8839867653	rohitgawas.294@gmail.com	
2	Shivam Nimbalkar	8830854483	shivamnimbalkar3901@gmail.com	
3	Aditya Vyavahare	9561648317	vvaditya23@icloud.com	
4	Aryan Magdum	8308992976	armagdum37@gmail.com	

Date: September 18, 2021

Place: Ashta

Mr. Vishal Kamble
GUIDE

Name of Project Coordinator
Project Coordinator

Dr. Smriti H. Bhandari
HoD, CSE