A

Synopsis/Project Report

On

Online Food Ordering System

Submitted in partial fulfillment of the requirement for the III semester

Bachelor of Technology

By

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GUIDELINES FOR SYNOPSIS

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STUDENT'S DECLARATION

We, **Pooja Joshi, Mahak Saxena, Sangeeta Chawla,** hereby declare the work, which is being presented in the project, entitled "**Online Food Ordering System"** in partial fulfillment of the requirement for the award of the degree **B.Tech** in the session **2022-2023**, is an authentic record of our own work carried out under the supervision of **"Mr. Ravindra Koranga", Assistant Professor, Department of CSE, Graphic Era Hill University, Bhimtal.**

The matter embodied in this project has not been submitted by us for the award of any other degree.

Date: 30-12-2022 …….

(Full signature of students)

CERTIFICATE

The project report entitled "Online Food Ordering System" being submitted by Pooja Joshi, Mahak Saxena, Sangeeta Chawla to Graphic Era Hill University Bhimtal Campus for the award of bonafide work carried out by them. They have worked under my guidance and supervision and fulfilled the requirement for the submission of report.

(……) **(……)**

Project Guide **(HOD, CSE Dept.)**

INTRODUCTION

Nowadays, digital business platforms are very popular and save us much effort and time in our daily life. E-commerce companies such as Amazon and flipkart could deliver goods to customers very efficiently. On the one hand, customers could select goods and place orders online without visiting the shop, which is usually time-consuming. Besides, they do not need to carry the goods to home. Instead, the shop would deliver the goods and save customers' efforts. On the other hand, using digital business platforms could make it more convenient forshop owners to manage orders, collect and analyze data and provide better service. In the catering industry, the demand of combining the convenience of digital business with their traditional delivery service is increasingly growing. Unlike common e-commerce companies, the restaurants usually could deliver food in less than half an hour and actually saves customers' time when compared to visiting the restaurants.

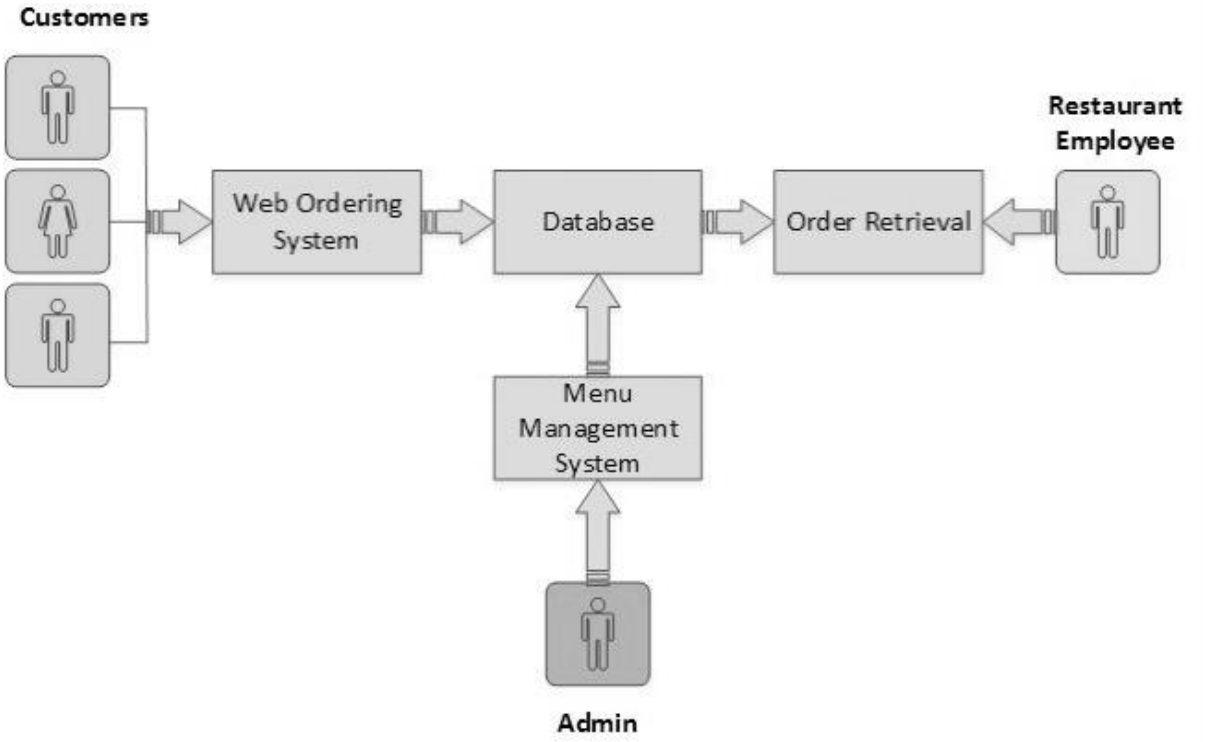
The online food ordering system set up menu online and the customers easily places the orderwith a simple mouse click. Also with a food menu online you can easily track the orders, maintain customer's database and improve your food delivery service. This system allows theuser to select the desired food items from the displayed menu. The user orders the food items.The payment can be made online or pay-on-delivery system. The user's details are maintained confidential because it maintains a separate account for each user. An id and password is provided for each user. Therefore it provides a more secured ordering.

It is known globally that, in today's market, it is extremely difficult to start a new small-scale business and live-through the competition from the well-established and settled owners. In fast paced time of today, when everyone is squeezed for time, the majority of people are finicky when it comes to placing a food order. The customers of today are not only attracted because placing an order online is very convenient but also because they have visibility into the items offered, price and extremely simplified navigation for the order.

Online food ordering system that I am proposing here, greatly simplifies the ordering process for both the customer and the restaurant. System presents an interactive and up-to-date menu with all available

options in an easy to use manner. Customer can choose one or more itemsto place an order which will land in the Cart. Customer can view all the order details in the cart before checking out. At the end, customer gets order confirmation details. Once the orderis placed it is entered in the database and retrieved in pretty much real time. This allows Restaurant Employees to quickly go through the orders as they are received and process all orders efficiently and effectively with minimal delays and confusion.

ONLINE FOOD ORDERING SYSTEM (ER Diagram)



OBJECTIVE

This Project is aimed to provide

- ✓ An order system on multi-platforms for customers to select dishes and place orders
- ✓ A convenient management dashboard for restaurant manager to easily manage the whole system
- ✓ A smart delivering system for helping delivery staff improves the quality of delivery service.

REQUIREMENTS AND CONSTRAINTS

As can be seen in the system model diagramed above, each of the three system components essentially provides a layer of isolation between the end user and the database. The motivation behind this isolation is twofold. Firstly, allowing the end user to interact with the system through a rich interface provide a much more enjoyable user experience, particularly for the non-technical users which will account for the majority of the system's users. In addition, this isolation layer also protects the integrity of the database by preventing users from taking any action outside those which the system is designed to handle. Because of this design pattern, it is essential to enumerate exactly which functions a user will be presented and these functions are outlined below, grouped by component.

Web Ordering System

Users of the web ordering system, namely restaurant customers, must be provided the following functionality:

- Manage their account.
- Navigate the restaurant's menu.
- Select an item from the menu.
- Customize options for a selected item.
- Add an item to their current order.
- Review their current order.
- Remove an item/remove all items from their current order.
- Provide delivery and payment details.
- Place an order.
- Receive confirmation in the form of an order number.

As the goal of the system is to make the process of placing an order as simple as possible for the customer, the functionality provided through the web ordering system is restricted to that

which most pertinent to accomplish the desired task. All of the functions outlined above, withthe exceptions of account creation and management, will be used every time a customer places an order. By not including extraneous functions, I am moving towards my goal of simplifying the ordering process.

Menu Management system

The menu management system will be available only to restaurant employees and will, as thename suggests, allow them to manage the menu that is displayed to users of the web ordering system. The functions afforded by the menu management system provide user with the abilityto, using a graphical interface:

- Add a new/update/delete vendor to/from the menu.
- Add a new/update/delete food category to/from the menu.
- Add a new/update/delete food item to/from the menu.
- Add a new/update/delete option for a given food item.
- Update price for a given food item.
- Update default options for a given food item.
- Update additional information (description, photo, etc.) for a given food item.

It is anticipated that the functionality provided by this component will be one of the first things noted by the restaurant user, as they will have to go through it to configure their menu, etc. before beginning to actually take orders. Once everything is initially configured, however, this component will likely be the least used, as menu updates generally do not occurwith great frequency.

Of the three components, the order retrieval system is functionally the simplest. Like the menu management system, it is designed to be used only by restaurant employees, and provides the following functions:

- Retrieve new orders from the database.
- Display the orders in an easily readable, graphical way.
- Mark an order as having been processed and remove it from the list of active orders.

SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems and using the information to recommend improvements on the system. System analysis is a problem solving activity that requires intensive communication between the system users andsystem developers.

Problem Analysis

As discussed earlier our main problem area focuses on the "Meal reservation/booking system", there are lot of problems in that area which are associated with both the customer and the restaurant staff.

We would like to analyze some of the problems here:

a. Initial problem is that the customer has to get connected over the phone, it would be harder if the restaurant is very popular and busy.
b. As customer won't have the menu list with him, it would be harder for him to remember the entire list (with price as well...!) and come to a decision, i.e. customer is providedwith less time to make decision.
c. The chances of committing mistakes at the restaurant side in providing a menu list for a specific time would be more.

d. There might be some communication problems or sometimes language might be a barrier.

e. As entire booking has to be done manually at the restaurant end, the chances ofoccurrence of mistakes is high as well.

To resister a meal online, the customer has to become a member first then he can access the later part of the site. The option of becoming member was only an attempt to avoid (to some extent) placing the fake bookings.

within the available items he can search for a menu according to his choice i.e. according to price range and category of food and later he can order a meal.

If the customer later wants to cancel the order, he is permitted to do this only within aspecific time period. The customer is also given with the facility to view the status of the order and if the order is ready then he can go and get it.

System Model

The structure of the system can be divided into three main logical components. The first component must provide some form of menu management, what can be ordered by customers. The second component is the web ordering system and provides the functionality for customers to place their order and supply all necessary details. The third and final logical component is the order retrieval system. Used by the restaurant to keep track of all orders which have been placed, this component takes care of retrieving and displaying order information, as well as updating orders which have already been processed.

FEASIBILITY STUDY

Feasibility is defined as the practical extent to which a project can be performed successfully.To evaluate feasibility, a feasibility study is performed, which determines whether the solution considered to accomplish the requirements is practical and workable in the software. Information such as resource availability, cost estimation for software development, benefits of the software to the organization after it is developed and cost to be incurred on itsmaintenance are considered during the feasibility study. The objective of the feasibility study is to establish the reasons for developing the software that is acceptable to users, adaptable to change and conformable to established standards. Various other objectives of feasibility studyare listed below.

- ✓ To analyze whether the software will meet organizational requirements
- ✓ To determine whether the software can be implemented using the current technologyand within the specified budget and schedule
- ✓ To determine whether the software can be integrated with other existing software

Consequently, costs and benefits are described with greater accuracy at this stage. It consists of the following:

- ✓ Statement of the problem: A carefully worded statement of the problem that ledto analysis.

- ✓ Summary of finding and recommendations: A list of the major findings and recommendations of the study. It is ideal for the user who requires quick access to the results of the analysis of the system under study. Conclusion are stated , followed by a list of the recommendation and a justification for them.
- ✓ Details of findings : An outline of the methods and procedures under-taken by the existing system, followed by coverage of the objectives and procedures of the candidate system. Included are also discussions of output reports, file structures, and costs and benefits of the candidate system.
- ✓ Recommendations and conclusions: Specific recommendations regarding the candidate system, including personnel assignments, costs, project schedules, and target dates.

Important Features

- ✓ Accuracy
- ✓ User Friendly
- ✓ Availability
- ✓ Efficiency
- ✓ Reliable
- ✓ Durable

SPECIFICATION REQUIREMENT

Requirement analysis for web applications encompasses three major tasks: formulation, requirements gathering and analysis modeling. During formulation, the basic motivation and goals for the web application are identified, and the categories of users are defined. In the requirements gathering phase, the content and functional requirements are listed and interaction scenarios written from end-user's point-of-view are developed. This intent is to establish a basic understanding of why the web application is built, who will use it, and what problems it will solve for its users.

SOFTWARE REQUIREMENT SPECIFICATION

Language: c programming language

HARDWARE REQUIREMENT SPECIFICATION

Processor	:	Standard processor with a speed of 2.0GHz
RAM	:	2BG
Hard Disk	:	50 GB or more
Monitor	:	Standard color monitor
Keyboard	:	Standard keyboard
Mouse	:	Standard mouse