Project Report

"Online Restaurant Service System"

CSE482 - Internet and Web Technology
Group Index - 01
Section - 03

BY

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Problem Statement

There are a lot of food delivery services out there which aren't able to meet the needs of a restaurant business. They solve the problem of delivery service, but they can't provide the services of pre-ordering, reservations, and customer service. Also, knowing more about a restaurant service is really important which aren't provided by the regular food delivery services.

This application was designed for the purpose of easing the pre-order, reservations and delivery service.

Introduction

Online restaurant service system which tends to solve the problem of reservations, food delivery systems, and food pre-order. This document contains the application use case, user story, phase wise development outlines and expectations. This document serves the intuitive planning structure to work on the development process with ease and gives the client a narrative thought of our final product.

Background and Product Context

This will be an application for an individual restaurant. The main purpose of this application will be to manage the whole system of a restaurant, such as: Placing Order, Reservation, Pre Order, Check out the menus and offers, etc.

In our country there are many food delivery services like: Foodpanda, Hungrynaki, Pathao, etc. But they work with all the restaurants available in a particular area. But they do not provide all the information of a particular restaurant and they don't have the option for reservations.. But in our case the application will be used for just a single restaurant, where the customers can visit the site to know about the food menus, offers and they can make an early reservation and also before arriving to the restaurant, customers can order food online to save the waiting time so that when they enter into the restaurant the food can be served immediately. This will be a one to one interaction between the restaurant and the customer. As there will be no third party present, the customer won't have to pay for extra fees.

User Story

The web application tends to solve the problem of online reservation, food delivery service, and food pre-order. Some user stories to be followed are shown below :

- The consumer can **reserve** a table by inputting the number of guests and the time.
- The consumer can **order food to deliver** it to their destination.
- The consumer can **pre-order** certain dishes, and enjoy their meal instantly after arrival at the restaurant.
- The consumer can **search** for their desired food item.
- The consumer can **sort** the food items in the order they want.
- The consumer can **filter** out the food items.
- The administrator can **add dishes** which they serve at the restaurant.
- The administrator can **edit or delete the reservation**.

Use Case

For Customer :

Use Case 1	Food Order
Actor	Customer
Basic Flow	Customers can browse the food items, search them by using search option, add them to cart and can order them for home delivery.
Exception	An user can't order food if they aren't registered into the system. The user must be registered and logged in to the system.

Use Case 2	Pre Order
Actor	Customer
Basic Flow	Customers can pre order food before arriving at the restaurant.
Exception	The customer has to pay the amount of the order to make a pre-booking. If the payment fails, it won't take the booking.

Use Case 3	Reservation
Actor	Customer
Basic Flow	Customers can reserve seats for any special occasion before arrival.
Exception	If all the seats are filled up, the customer can't make any reservation and the system will say that, "We are out of seats".

Use Case 4	Feedback
Actor	Customer
Basic Flow	Customers can leave an opinion or a review based on their experience with the service.

Use Case 4	Registration
Actor	Customer
Basic Flow	A customer can register them by putting their Name, Address, Phone Number, Email and Password.
Exception	If the user email already exists in the database, the system will say "user already exists" and will refresh the registration page.

Use Case 5	Login
Actor	Customer
Basic Flow	A customer can login to the system by putting their Email and Password.
Exception	If the user input wrong email and password or if the user doesn't exist, the system will say "Wrong user info", then it will refresh the login page.

For Admin :

Use Case 1	Registration and Login
Actor	Admin
Basic Flow	The admin will be assigned manually in the database. And if an admin login to the system, it will redirect to the admin dashboard.
Exception	If the admin input wrong email and password or if the admin doesn't exist, the system will say "Wrong user info", then it will refresh the login page.

Use Case 2	Add or Remove Food Items
Actor	Admin
Basic Flow	An admin can add, remove or edit the elements of any food item.

Use Case 3	Approve Order Status
Actor	Admin
Basic Flow	An admin can confirm the status of an order by changing it to approved or canceled.

Front-end Plans

A total of 10-page templates are planned to be developed.

1. Home page
2. About
3. Contact us
4. Feedback
5. Food list to order
6. User profile
7. Sign up
8. Sign in - User
9. Sign in - Administrator
10. Adding field to edit

Backend Development

1. Account Creating, Password Recovery :
   a. Sign up form
   b. Login
   c. Forgot password
   d. MySQL database
2. Profile Management :
   a. User Profile
3. Searching Facility :
   a. Dish name search
   b. Food type search

Development Plan

We've made a development plan which is pretty suitable for our experience level. We've planned the project to be completed within 3 weeks (21 days). We will follow a specific design followed by our UI design.

Phase 1 :
We will complete our front-end part, to be exact the UI part within approximately a week. The design will be based on our user interface design.

Deliverables :
At the end of phase 1, the client will get a dynamic front-end part of the website. There won't be much functionality as the back-end part isn't done yet.

Phase 2:
We will work on the database side after the first phase. We will make a database schema and will follow that to create the database.
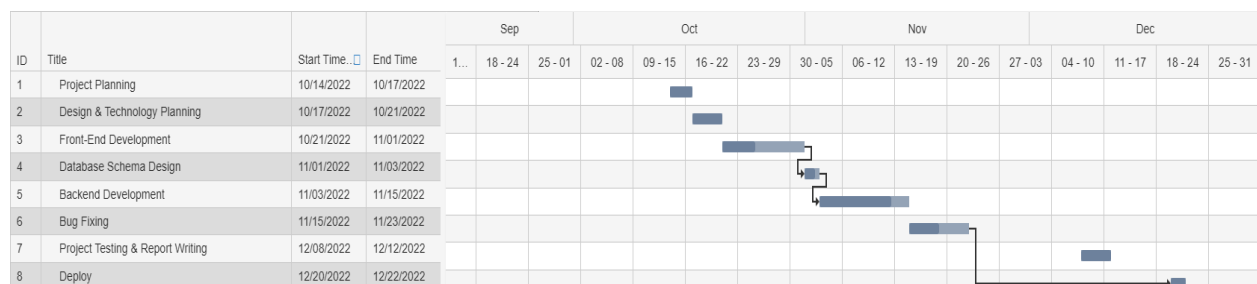
Phase 3:
We will work on the server side after the database creation phase. We will connect the backend backbone to the database. It will work with our front-end part as well.

Deliverables :
At the end of phase 3, the client will get a full-blown restaurant management system web application in which they can interact with the database using the client-side or front-end interface.

Gantt chart

ID	Title	Start Time...	End Time
1	Project Planning	10/14/2022	10/17/2022
2	Design & Technology Planning	10/17/2022	10/21/2022
3	Front-End Development	10/21/2022	11/01/2022
4	Database Schema Design	11/01/2022	11/03/2022
5	Backend Development	11/03/2022	11/15/2022
6	Bug Fixing	11/15/2022	11/23/2022
7	Project Testing & Report Writing	12/08/2022	12/12/2022
8	Deploy	12/20/2022	12/22/2022

Project Schedule

We are planning to complete our project by 20th December. Before that our project will be deliverable according to different checkpoints.

No.	Deliverable	Approximate Date
1.	Front End Design	26/10/2022
2.	Database Design	09/11/2022
3.	Server Side Creation	19/11/2022
4.	Full Website Creation with all functions	08/12/2022

Work Distribution

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Login Page	Order Page
Registration Page	Sorting Function
Home Page	Live Search
About Page	Shopping Cart
Contact Page	Checkout Page

Appendix

Contact Information

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