A Mini Project Report on

Online Food Ordering System

T.E. - I.T Engineering Submitted

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CERTIFICATE

This to certify that the Mini Project report on **Online Food Ordering System** has been submitted by 20104011, 20104007 and 20104040 who are a Bonafede students of **A. P. Shah Institute of Technology, Thane,** as a partial fulfilment of the requirement for the degree in **Information Technology**, during the academic year **2022-23** in the satisfactory manner as per the curriculum laid down by **University of Mumbai**.

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ABSTRACT

An Online Food Ordering System is proposed here which simplifies the food ordering process. The proposed system shows an user interface and update the menu with all available options so that it eases the customer work. Customer can choose more than one item to make an order and can view order details before logging off. The order confirmation is sent to the customer. The order is placed in the queue and updated in the database and returned in real time. This system assists the staff to go through the orders in real time and process it efficiently with minimal errors.

In particular, this Online Food Ordering System project in PHP focuses mainly on managing online food orders. To be more precise, the system helps to keep track of clients, and their orders. Also, the system displays all the available food dishes with their respective restaurants. In addition, the system allows online bookings for the client. Evidently, this project contains a client-side with an admin panel. In an overview of this web application, customers have to register in order to use the services. Here, customers can view food dishes and filter restaurants. In terms of food ordering, he/she can simply add dishes to the cart and checkout. In fact, all these customers' activities take place on the client side which also allows user to view their order list with status. Besides, the customers can delete orders anytime.

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Chapter 1
Introduction

The "Online Food Ordering System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and ,in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. Online Food Ordering System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources.

Online Food ordering system is a process in which one can order various foods and beverages from some local restaurant and hotels through the use of internet, just by sitting at home or any place. And the order is delivered to the told location. The Online Food Order System In PHP is a simple project developed using PHP, JavaScript, and CSS. The project connects different restaurants with customers. The project contains an admin(manager) and the user side. All the management like editing site contents, updating food items, adding restaurants, and checking order status can be managed from the admin side. There can be many managers on the site.

For the user section, the users can go through the homepage, about, and contact pages. In order to order the food items, the user has to create an account and sign in or log in. The food comes with the cost as well. This project makes a convenient way for customers to buy/purchase food online, without having to go to the restaurant. This Online Food Order System is in PHP, JavaScript, and CSS. Talking about the features of this system, it contains the admin(manager) section and the user (customer) section. All the editings, updating, managing order details, food items, and restaurants are from the admin section while customers can only go through the site and give orders if want. 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.

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.

- **Solution Proposed :**

  This system is a bunch of benefits from various points of view. This online application enables the end-users to register to the system online, select the food items of their choice from the menu list, and order food online. Also, the payment can be made through online mode or at the time of home delivery depending upon the customer's choice and convenience.

1.1Purpose

- To automate the existing manual system by the help of computerized equipment's and full-fledged computer software.
- With a food ordering system, you don't have to pay those huge commissions that you would otherwise to third-party aggregators.
- For fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same.
- The required software and hardware are easily available and easy to work with.

1.2 Problem Statement

The People have to be present condition in taken food from Hotel that means People had to compulsion of goes to Hotel.Now the moment the Online food ordering could be called the response of the Internet to the desire for delivery food.It is a growing trend especially in urban areas and on college campuses that allows people to order from restaurants featuring interactive menus, by use of their Internet connection.

There are several ways in which online food ordering from a restaurant may occur. A restaurant can have its own website with easy features for placing an order for pick-up or delivery.Some add a third option of being able to make reservations. Instead of calling for a delivery, people just access the Internet, head to the restaurant site and make their order.

1.3 Objective

- To Provide the searching facilities based on various factors. Such as Food Item, Customer, Order, Confirm Order**.**
- To manage the Payment details online for Order details, Confirm Order details, Food Item.
- To track all the information of Category, Payment, Order ,etc.
- To Manage the information of Category of Food.
- To Show the information and description of the Food Item and Customer.
- Editing, adding and updating of Records is improved which results in proper resource management of Food Item data.

1.4 Scope

- The food ordering process easier for customers as well as for restaurant owners.
- Easy order management
- Less processing time means less waiting time for food orders.
- Live order tracking.
- It is very easy to customize the food order.
- To utilize resources in an efficient manner by increasing their productivity through automation.

Chapter 2
Literature Review

- The online food ordering market has increased in the U.S with 40 percent of U.S adults having ordered their food online once. The online food ordering market includes foods prepared by restaurants, prepared by independent people, and groceries being ordered online and then picked up or delivered.
- By the late 2000s, major pizza chains had created their own mobile applications and started doing 20–30 percent of their business online. With increased smartphone penetration, and the growth of both Uber and the sharing economy, food delivery startups started to receive more attention. In 2010, Snapfinger, who is a multi-restaurant ordering website, had a growth in their mobile food orders by 17 percent in one year.
- In a 2019 market study of restaurant delivery services, the global market for online-ordered prepared food delivery was estimated at $94 billion and is estimated to grow at just over 9 percent a year, reaching $134.5 billion in 2023. The study defined the market as 1"meals ordered online which are directly delivered by the restaurant, no matter if ordered via a platform or a restaurant website online meal orders and deliveries "both carried out by a platform" "online orders that are picked up in the restaurant" by the customer. It does not include phone orders.
- After 2020, COVID-19 significantly boosted online food delivery usage worldwide According to research conducted by the NDP Group, online restaurant ordering is growing 300% faster than dine-in traffic.

Chapter 3

Proposed System

- The aim of proposed system is to develop a system of improved facilities.
- The proposed system can overcome all the limitations of the existing system.
- This system is a bunch of benefits from various point of views. As this online application enables the end users to register to the system online, select the food items of their choice from the menu list, and order food online.
- As soon as the chef prepares the food, the later person forwards the parcels to the delivery persons assigned with the location and customer identity of the customer along with the bill status.
- With this application the work load of the waiter in the hotels are reduced or in some situations the work is abolished.
- One of the various benefits of this is system is that if there is rush or a huge crowd present in the restaurant then in that case sometimes unavailability of tables cut downs the restaurants customer.

3.1 Features and Functionality

Admin Side

- Secure Login/Logout
- Dashboard/List Summary Page
- Manage Food Category
- Manage Food Menu
- Manage Orders
    - Updated Status
    - View Order
    - Delete Order
- Manage Restaurants
- Manage User List
- Manage Account Credentials

Chapter 4

User Side

- Secure Login and Registration
- Explore Menu &View Menu Details
- View Menu Other Image
- Add to Cart
- Update Cart Item Quantity
- Delete Cart Item
- Checkout/Place Order
- List My Order
- View Order
- Manage Account Credentials

Requirement Analysis

Hardware requirements

- **RAM**

  The application requires a device with a minimum of 512MB RAM while running.

- **Processor speed**

  The application requires a device with a minimum processor speed of 1GHz while running.

Software requirements

- **Operating system**

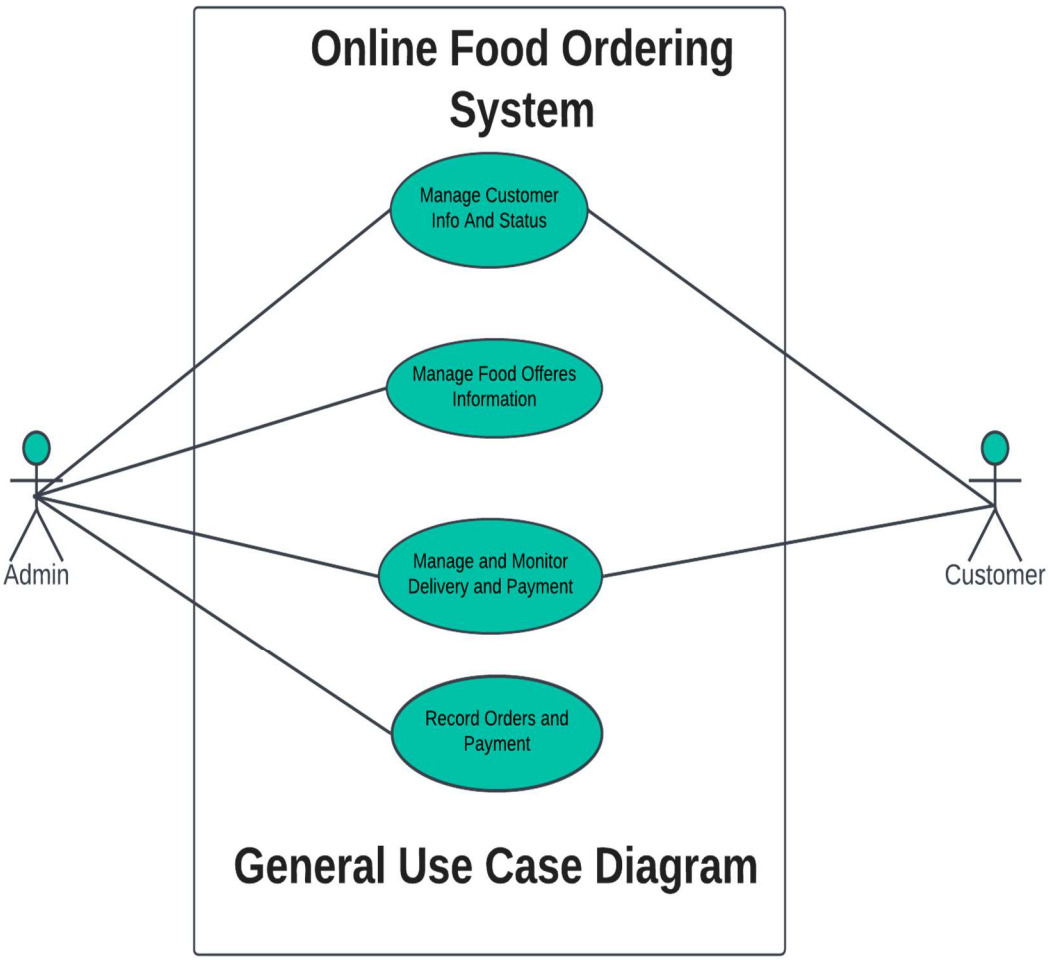
  The application must run on any Operation System.

  Web Browser: IE 10 or above, Mozilla FF 31 and above or Google Chrome.

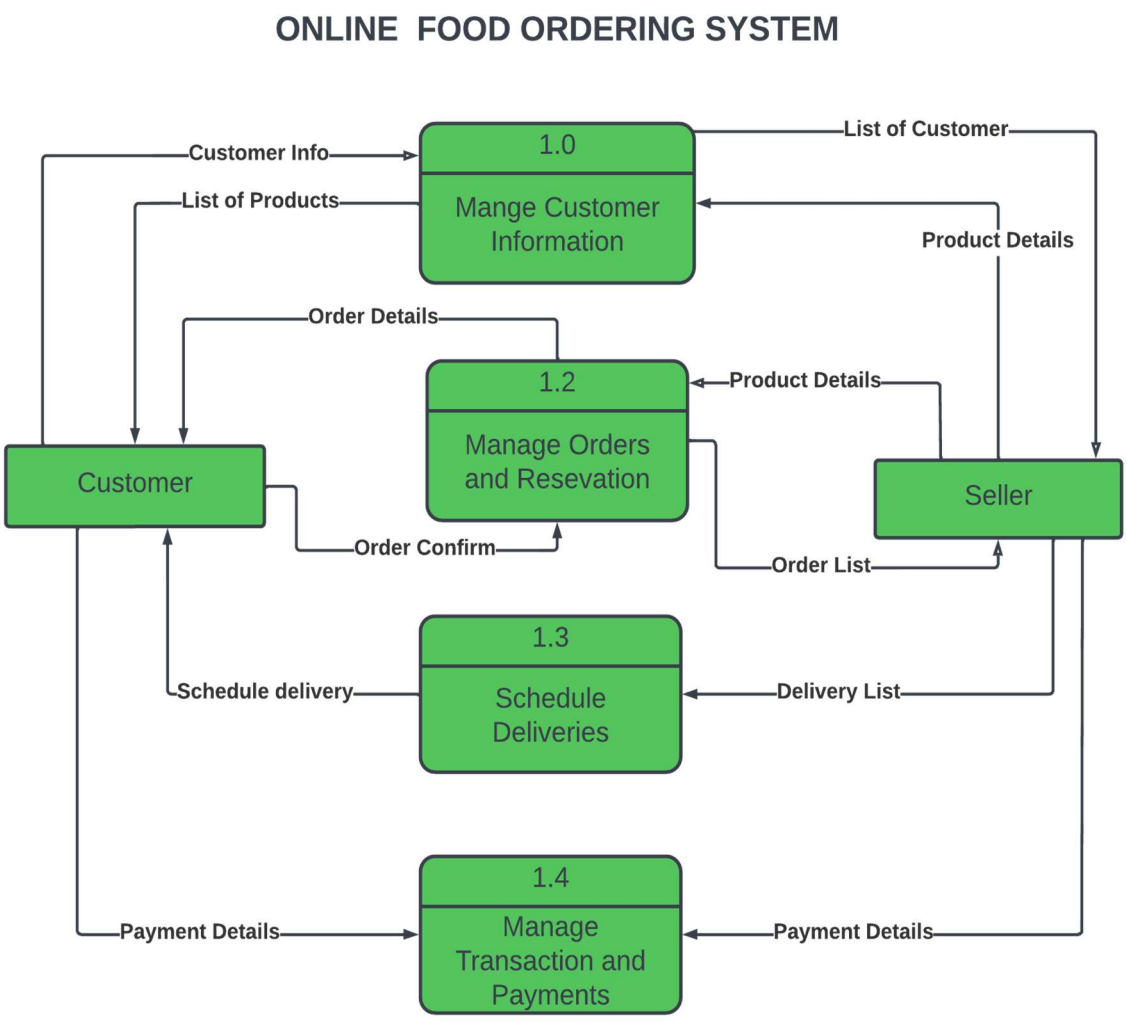
Chapter 5

Project Design

5.1 Use Case Diagram

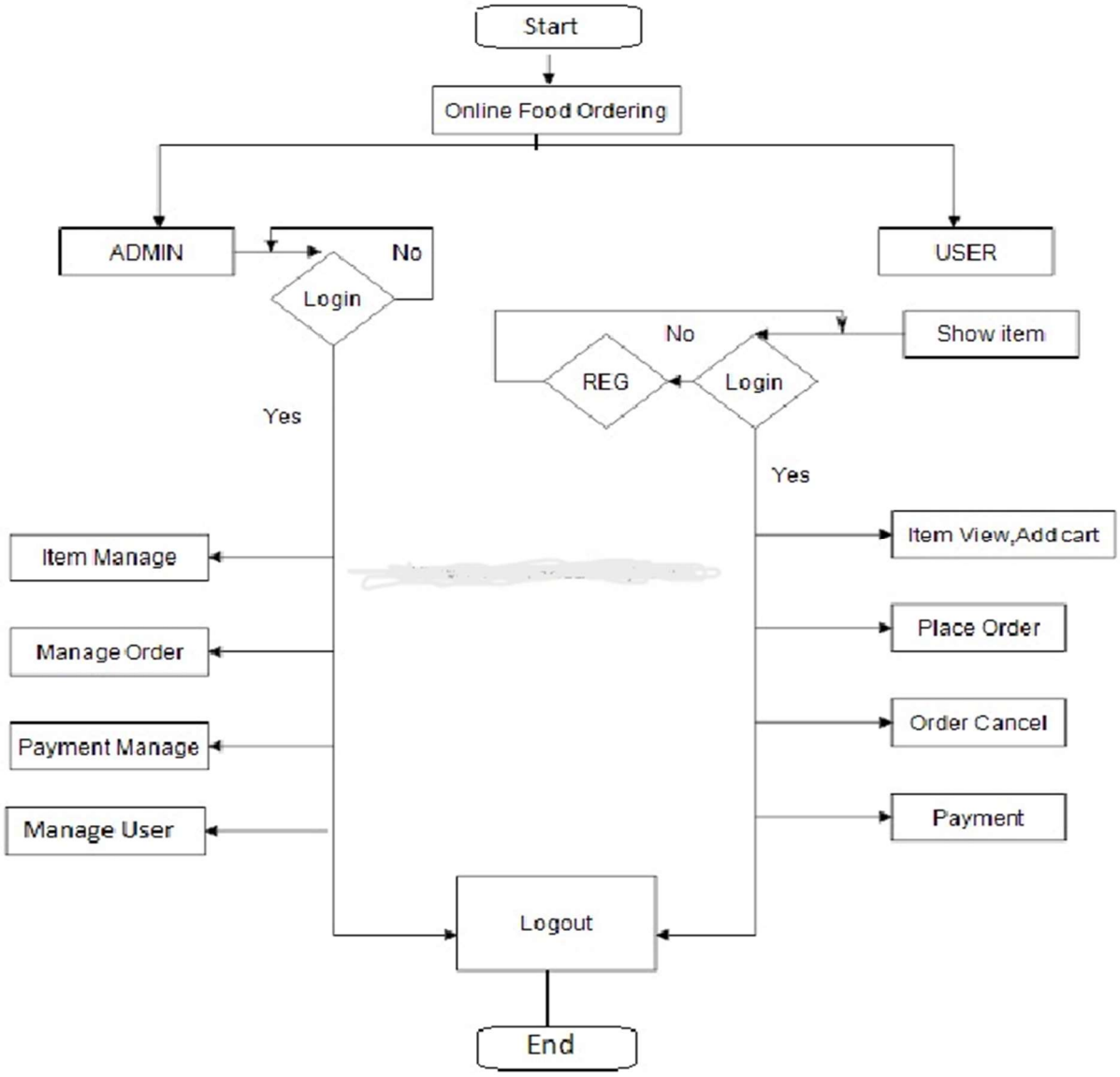


5.2 DFD



DATA FLOW DIAGRAM LEVEL 1

5.3 System Architecture



Chapter 6
Technical Specification

Development: VS Code

VS Code also known as Visual Studio Code is a source code editor made by Microsoft for Windows, Linux, MacOS. It has various features such as Debugging, Syntax highlighting, extension, intelligent code completion.

Frontend: Html, CSS, JavaScript

As a web developer, the three main languages we use to build websites are HTML, CSS, and JavaScript. JavaScript is the programming language, we use HTML to structure the site, and we use CSS to design and layout the web page. These days, CSS has become more than just a design language, though. You can actually implement animations and smooth transitions with just CSS.

OS : Windows

Windows is a graphical operating system developed by Microsoft. It allows users to view and store files, run the software, play games, watch videos, and provides a way to connect to the internet. It was released for both home computing and professional works.

Backend: Php, MySQL

With PHP, you can connect to and manipulate databases. MySQL is the most popular database system used with PHP. PHP combined with MySQL are cross-platform (you can develop in Windows and serve on a Unix platform) .The data in a MySQL database are stored in tables. A table is a collection of related data, and it consists of columns and rows. Databases are useful for storing information categorically.

Chapter 7

Project Scheduling

Sr. No	Group Member	Time Duration	Work Done
1	Aniruddha Sawant		Gathering information about online Food ordering system from multiple platforms & analyzing the implementation of project.
2	Nihaal Varun		Designing the user interface with graphical abstract and linking pages with other also with user experience
3	Abhishek Shinde & Aniruddha Sawant		Designing the database and linking the registration. Getting the api from multiple resources.
4	Abhishek Shinde		Manage and design database in mysql form and connect through backend and frontend transitions.
5	Aniruddha Sawant, Abhishek Shinde, Nihaal varun		Testing and debugging the project manually as well as creating project documentation.

Chapter 8
Implementation

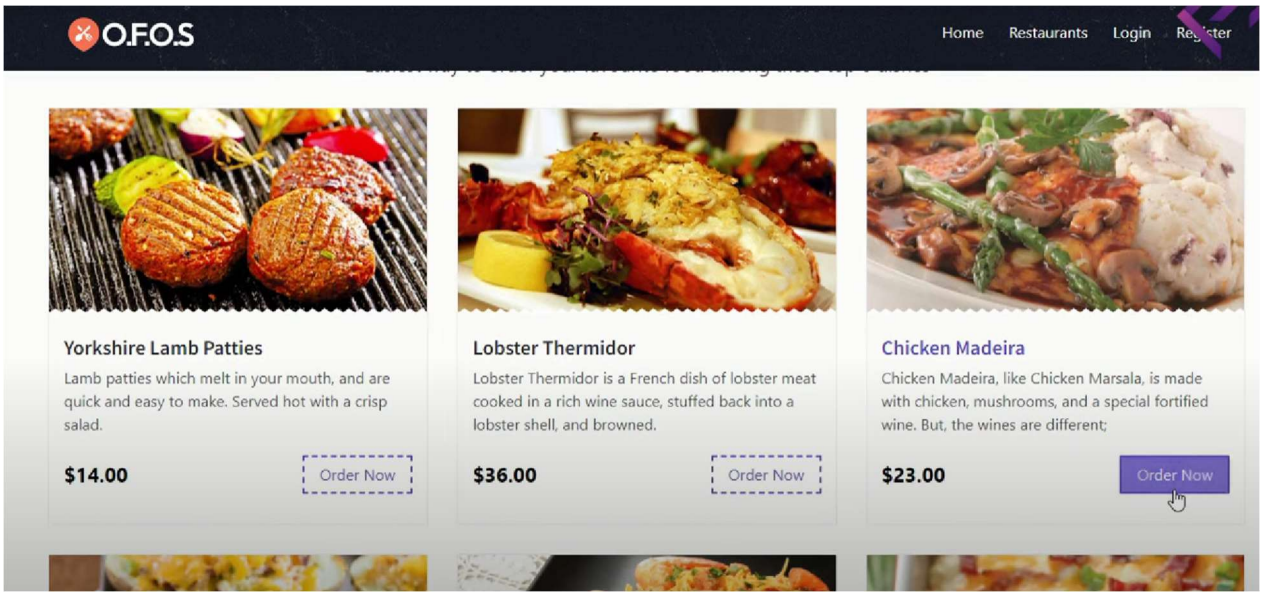
Connect.php: This function contains the database required to connect the database of Food ordering system.

```
<?php

//main connection file for both admin & front end
$servername = "localhost"; //server
$username = "root"; //username
$password = ""; //password
$dbname = "onlinefoodphp";  //database

// Create connection
$db = mysqli_connect($servername, $username, $password, $dbname); // connecting
// Check connection
if (!$db) {       //checking connection to DB
   die("Connection failed: " . mysqli_connect_error());
}

?>
```

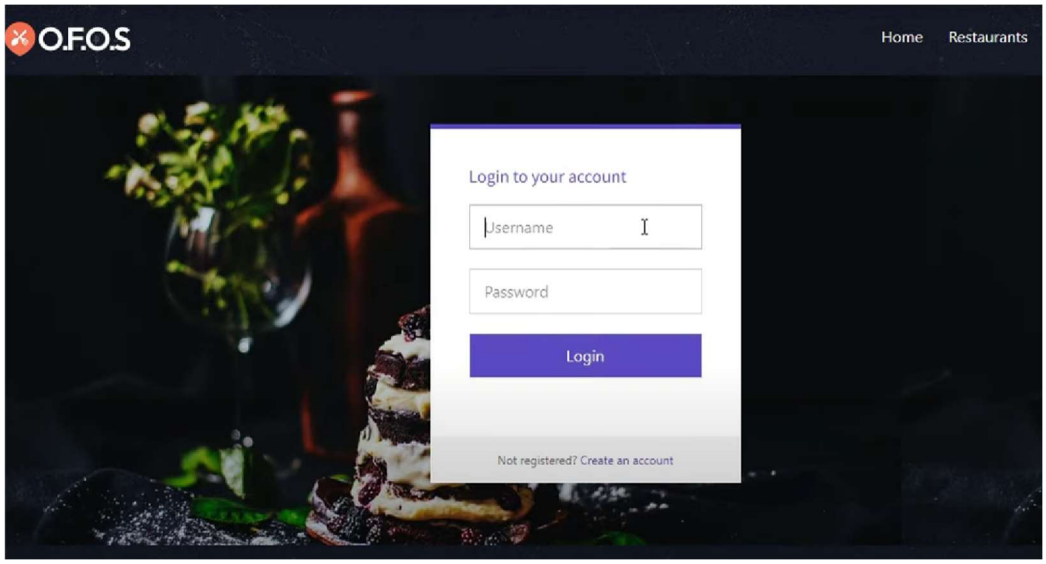
Chapter 9
Result and Discussion

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html & css, usage of responsive templates, designing of android applications, and management of database using mysql. The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project. This project has given us great satisfaction in having designed an application which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modification.

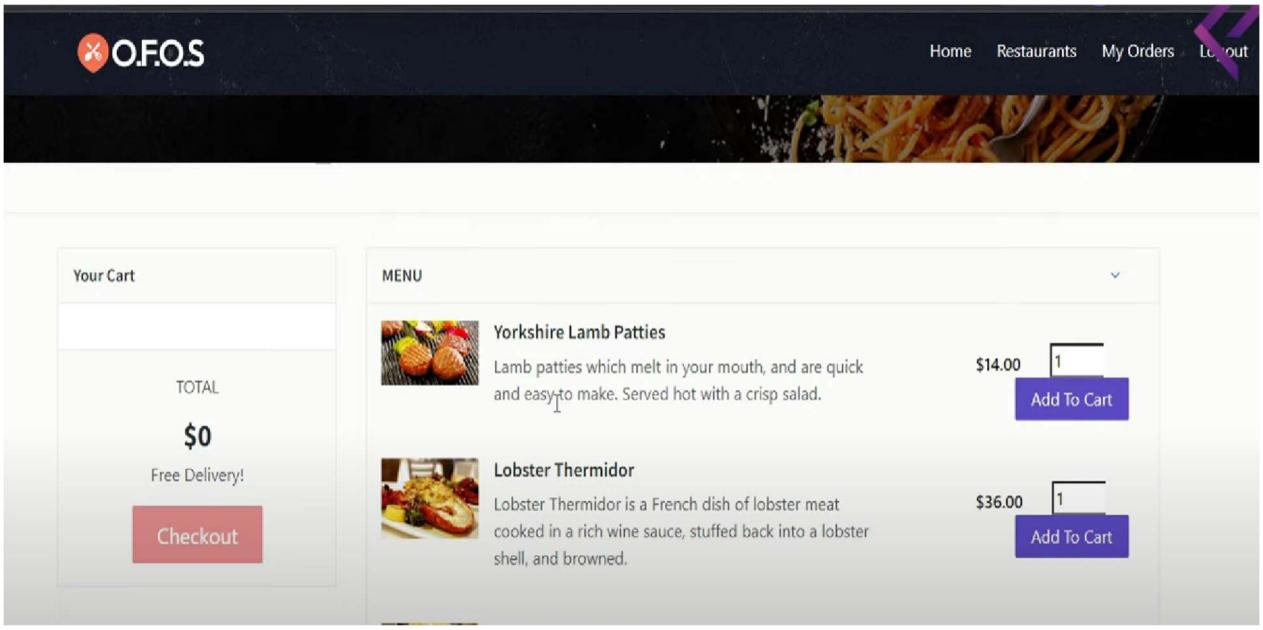
1. User



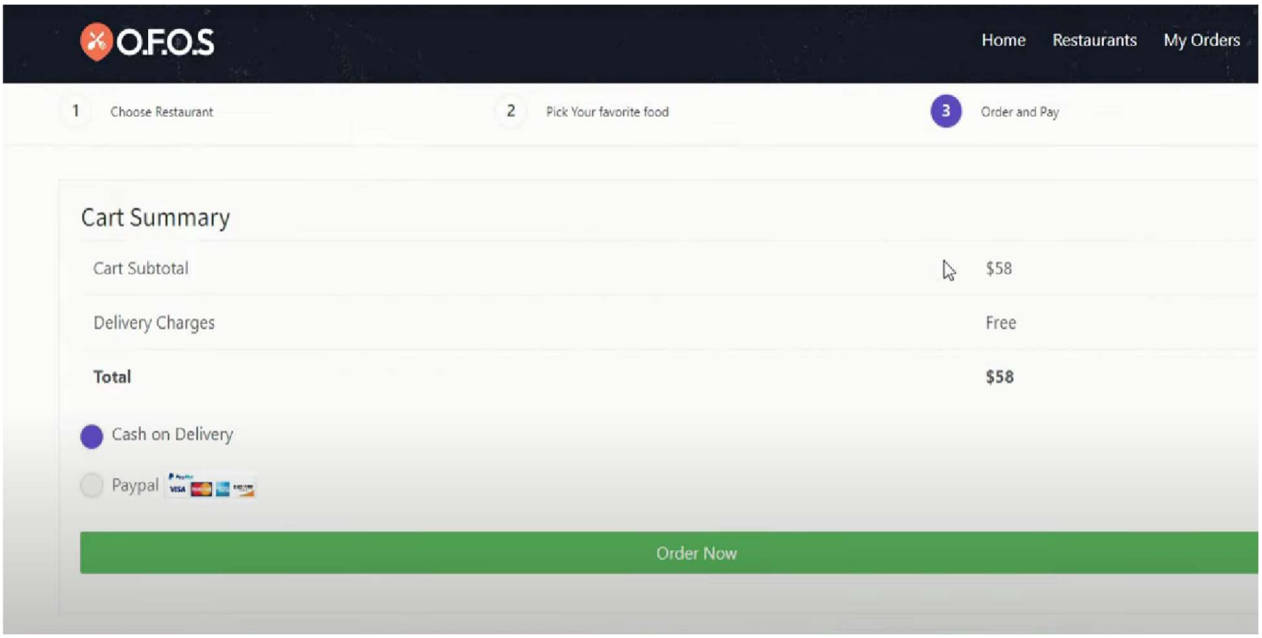
Fig(1.a) Home page with menu & Details



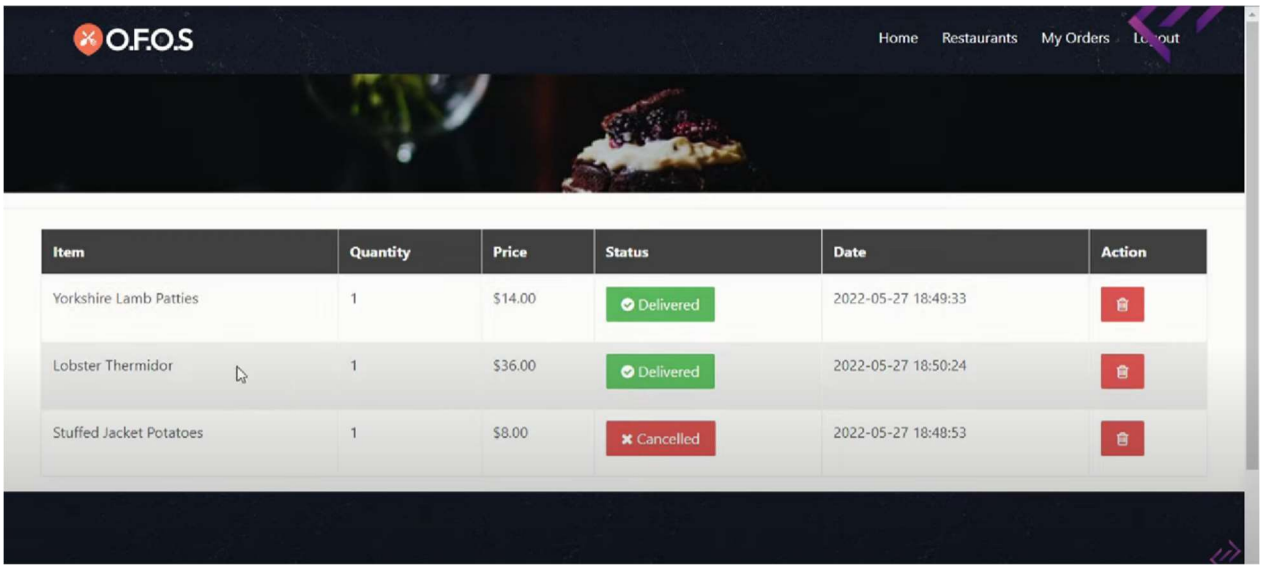
Fig(1.b) Login Page



Fig(1.c) Add to cart & Checkout page

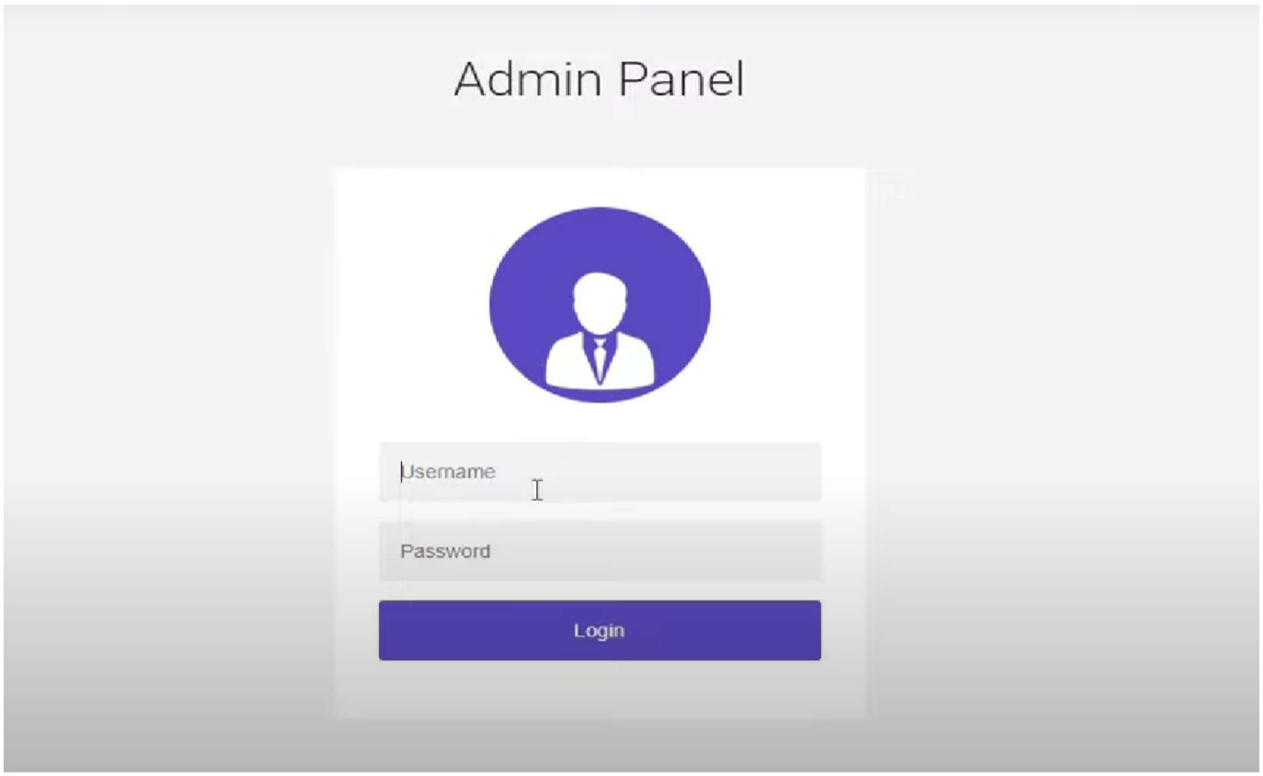


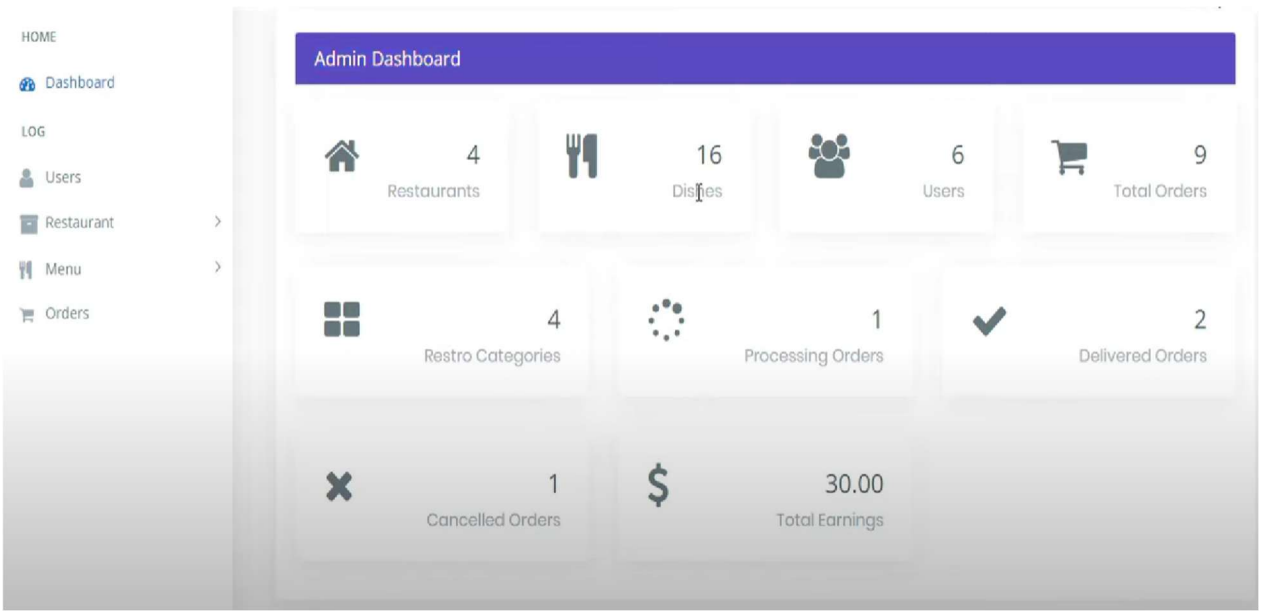
Fig(1.d) Payment Page



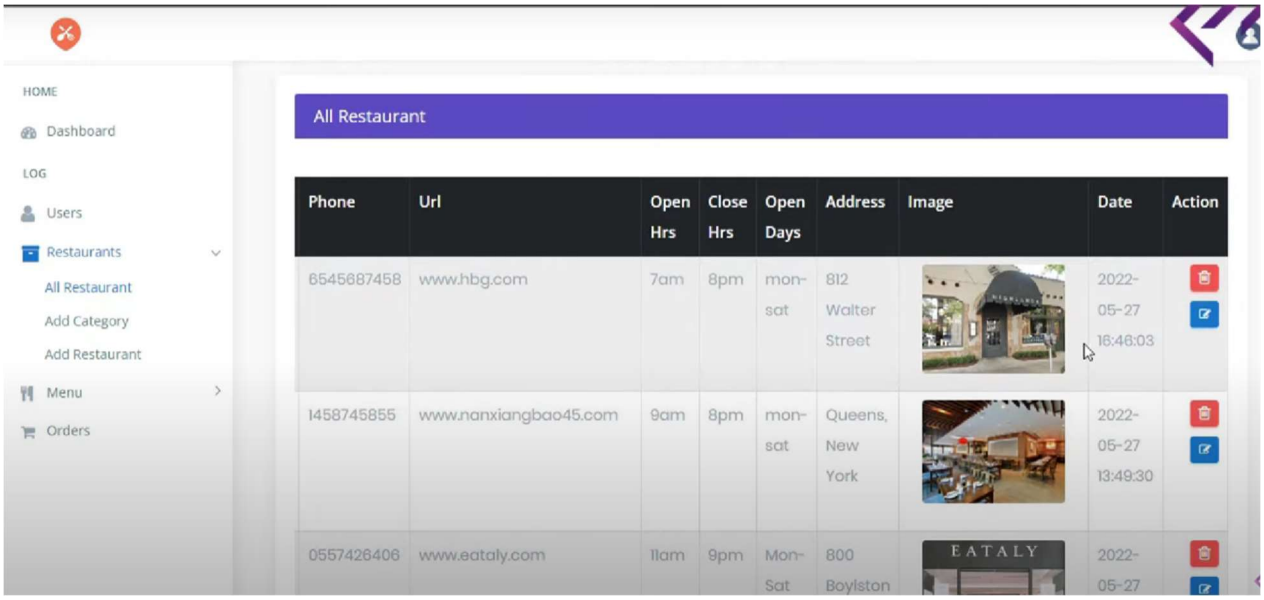
Fig(1.e) Order Status Page

2. Admin

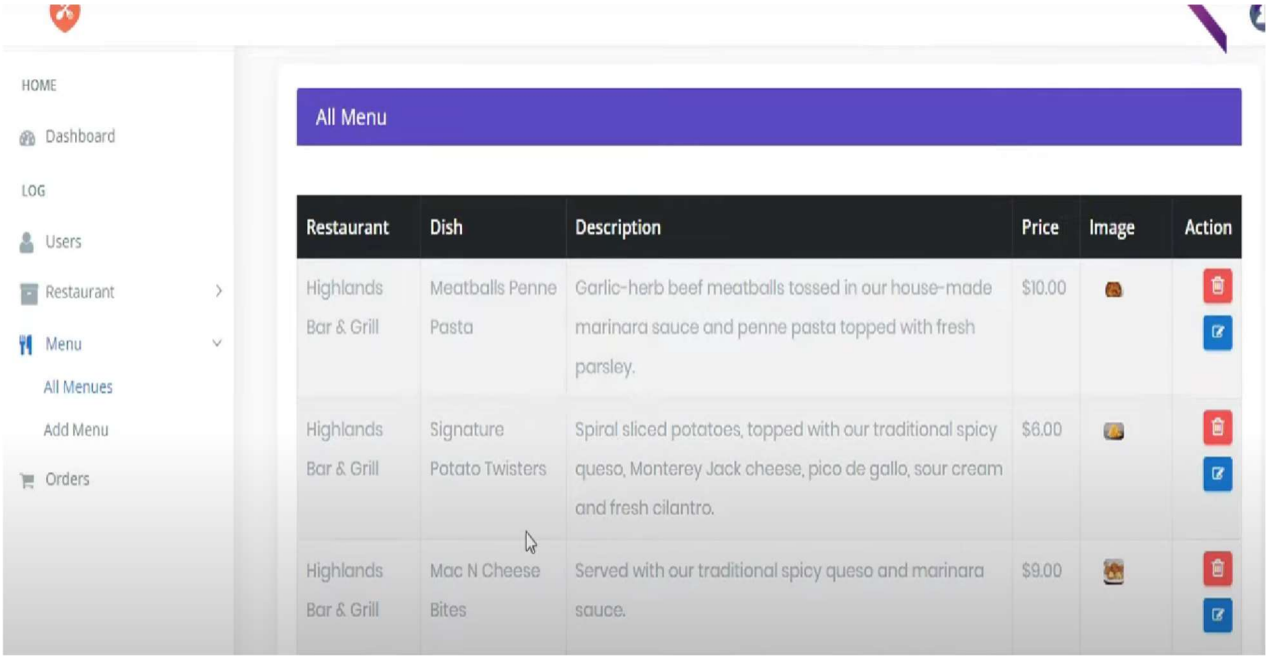




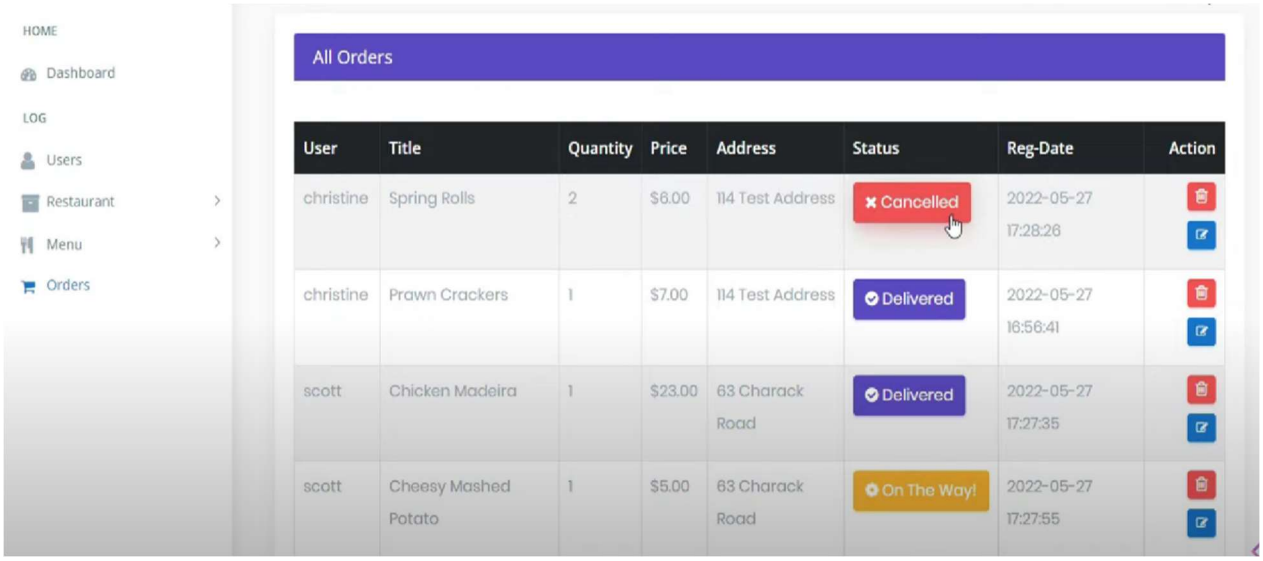
Admin Dashboard



Restaurant Management



Menu Management



Order Management

Chapter 10

Conclusion

An online food ordering system has been planned wherever the purchasers will create associate or orders the food and avoid the hassles of watching for the order to be taken by the waiter. The exploitation of the application, the tip users register online, scan the E-menu card, and choose the food from the e-menu card to order food online. Once the client selects the desired food item the cook is going to be ready to see the results on the screen and begin to process the food. This application nullifies the requirement of a waiter or reduces the employment of the waiter. The advantage is that in a very jammed eating place there will be the probability that the waiters are overladen with orders and that they are unable to fulfil the wants of the client in a very satisfactory manner.

Chapter 11

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