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A Project Report on

Online Food Ordering System

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This project report has been submitted in fulfilment of the requirements for the Degree of Bachelor of Technology in software Engineering.

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Rajiv Gandhi University of Knowledge Technologies IIIT, R. K. Valley, YSR Kadapa (Dis) -516330



CERTIFICATE

This is to certify that report entitled "Online Food Ordering System" Submitted by N. Suresh (R170185), P. Jaya Sreenivas(R171005) in partial fulfilment of the requirements of the award of bachelor of technology in computer science engineering is a bona fide work carried by them under the supervision and guidance.

The report has been not submitted previously in part or full to this or any other university or institute for the award of any degree or diploma.

GUIDE

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Mr. K. Vinod Kumar Assistant Professor Mr. N. Satyanandram HOD OF CSE

Submitted for the practical examination held on	
-------------------------------------------------	--

Internal Examiner

External Examiner

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DECLARATION

We hereby declare that this report entitled "Online Food Ordering System"
Submitted by us under the guidance and supervision of Mr. K. Vinod Kumar, is a bonafide
work. We also declare that it has not been of Submitted previously in part or in full to this
University or other institution for the award of any degree or diploma.

Date: - 02-05-2023 N. Suresh (R170185)

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ABSTRACT

The Online food ordering system sets up a food menu online and customers can easily place the order as per they like. Also with a food menu, online customers can easily track the status of the orders. The management maintains customers database, and restaurant data. The system displays all the available restaurants with their menus on the client side with their respective photos. In addition, system list out all the available restaurants description with their opening hours and locations. It has a number of features that will allow the users to interact in a way that other online food ordering store interacts with their customers.

The system is built using the PHP framework and uses a MySQL database to store and manage data. The front-end of the system is designed to be user-friendly and intuitive, with a modern and responsive interface that works well on both desktop and mobile devices. Users can browse menus, search for specific dishes or restaurants, and add items to their cart. The system also includes a shopping cart feature that allows the users to review their orders and make any changes before submitting them.

Our proposed system is an online food ordering system that enables ease for the customers. It overcomes the disadvantages of the traditional queueing system. Our proposed system is a medium to order online food hassle free from restaurants. This system improves the method of taking the order from customer. The online food ordering system sets up a food menu online and customers can easily place the order as per their wish. Also with a food menu, customers can easily track the orders. The payment can be made online or pay-on-delivery system.

- An admin panel is a must for an online food ordering system project where it allows control of the whole system.
- Admin has the access to the system, maintain the entire database of information.
- It has a number of features that will allow the users to interact in a way that other online food ordering system store interacts with their customers.

INTRODUCTION

This online ordering system project focuses mainly on dealing with customers food order lists as user can browse available food items and add them to the cart for checkout procedure. Also, the system displays all the available restaurants with their menus on the client-side with their respective photos. In addition, the system lists out all the available restaurant's descriptions with their opening hours and locations.

This project is divided into two categories: Admin Panel and Client-Side. In an overview of this website, the user can simply select food items, and add them to their respective cart. Under the customers cart section, the system displays the total amount and allows the user to proceed towards checkout. For purchase checkout, he/she can also change the shipping details too.

The system aims to provide an efficient and effective way of managing restaurant-related tasks such as order management, inventory control, menu management, and billing. The system enables restaurant owners to focus on the quality of food and customer experience rather than the management of tedious administrative tasks. It has a number of features that will allow the users to interact in a way that other online order food ordering store interacts with their customers. This system as well as the web application concept is all clear, it's the same as real life scenarios and well implemented on it.

Overall, the system provides an easy-to-use interface for restaurant owners, managers, and staff to manage operations efficiently, improve customer service, and increase profitability.

Here are the components that make this project useful:

- **User Management:** The system provides user registration and login functionality to maintain user-specific data and order history.
- **Menu Management**: The system provides functionality to manage menus such as adding new items, updating the menu, and removing menu items.
- **Order Management:** The system allows user to add items to their cart and place orders. The system maintains order history for each user.

PURPOSE

The purpose of this project is to provide an online food ordering and delivery system that simplifies the process of ordering food for customers and managing orders for the restaurant. It aims to eliminate the need for customers to physically visit a restaurant and place an order, and instead, allow them to order food online and have it delivered to their doorstep.

The project provides various features such as interactive menu, user registration, order tracing, and payment integration, making the entire process efficient and convenient for both the customers and the restaurant. By providing an online platform for ordering and delivery, this project aims to streamline the process of food ordering, reduce waiting times, and improve overall customer satisfaction.

OVERALL DESCRIPTION

The overall description for this project is it allows customers to place orders online and helps restaurant staff manage the orders, menu items, and delivery etc. The customer can browse the menu items, place orders, pay online. The system also allows customers to track their orders and get updates on the status of their order. The staff can manage the menu items, update the availability of items, and receive and process orders.

The system also allows the staff to manage delivery and pickup options, and generate reports for analysis and decision making. Overall, the project aims to streamline the ordering and management process for both customers and restaurant staff, leading to increased efficiency and customer satisfaction.

1. Admin Panel:

- Login and authentication: The admin panel provides a secure login system for authorized users, allowing them to access and manage various features of the application.
- Manage users: The admin panel allows the administrator to manage user accounts, such as creating new user accounts, updating existing user profiles, and deleting user accounts if necessary
- Manage orders: The admin panel provides a comprehensive view of all orders placed by customers, allowing administrators to track the status of each order and manage them accordingly.

- Manage menu items: The admin panel allows the administrator to manage the menu items displayed on the website, including adding new items, editing existing ones, and removing items that are no longer available.
- View and manage reports: The admin panel provides various reports related to the orders, sales, and customer information, which can be used to analyze business performance and make informed decisions.

Overall, the admin panel plays a critical role in managing various aspects of the application and ensuring that the website functions smoothly and efficiently.

2. Customer Panel:

- Register and Login: Customers can create an account on the website by registering with their personal details, and then login using their user name and password.
- Browse and Search: Customers can browse and search for products bases on various categories such as type menu item, or restaurant.
- Place Order: Customers can place orders by selecting the items they want to order, adding them to their cart, and then proceeding to checkout.
- View Order History: Customers can view their past orders and their current order status.
- Payment: Customers can make payment for their order through various payment options like online payment or cash on delivery.
- Contact Support: Customer can support through email or phone in case they have issues with their orders or need any help.

EXISTING SYSTEM

The existing system of online ordering system is to visit the restaurant physically or place orders over the phone, which could be time-consuming and inconvenient. The restaurant staff had to manually manage the orders, track inventory, and keep records, which could be led to errors and inefficiencies. Customers can only place of they are aware of the restaurant location or number.

It creates an inconvenient for customers because customers have to wait on hold during peak hours either in queue or phone calls. Orders can be inaccurately noted down by restaurant staff leading to incorrect deliveries. Customers have no way to track their order status or delivery time. With the implementation of this online food ordering system, customers can easily browse the menu, place orders, and make payments online, while the restaurant staff can manage the orders, track inventory, and generate reports through the admin panel. The existing system is not user friendly and difficulty to generate reports.

DRAWBACKS OF EXISTING SYSTEM

- **Limited reach:** Customers can only place orders if they are aware of the restaurant's phone number of location.
- **Inconvenient for customers:** Customers have to wait on hold during peak hours to place their orders through phone calls or its take more time-consuming.
- **Possibility of errors:** Orders can be misheard or inaccurately noted down by restaurant staff leading to incorrect deliveries.
- Lack of transparency: Customers have no way to track their order status or delivery time.
- **Limited payment options:** Customers can pay in cash or through a card at the restaurant.
- **Not User Friendly:** The Existing system is not user friendly because the retrieval of data is very slow and data is not maintained efficiently.
- **Difficulty in report generating:** We require more calculations to generate the report so it is generated at the end of the session.

PROPOSED SYSTEM

The proposed system for the online food ordering system aims to overcome the drawbacks of the existing system and improve the overall user experience. The following are some key points of the proposed system:

- **Menu Management:** The proposed system will have an advanced menu management system that will allow the admin to update and manage the menu items easily. The system will also allow customers to customize their orders according to their preferences.
- **Order Tracking:** The proposed system will allow customers to track their orders in real-time. Customers will receive notifications about the status of their orders, which will keep them informed about the estimated delivery time.
- **User-Friendly Interface:** The proposed system will have a user-friendly that will be easy to use for customers. The website will have a simple design and easy navigation that will enable users to find the required information quickly.
- **Mobile Responsive:** The proposed system will be mobile responsive, allowing customers to access the website from any device, including smartphones and tablets. This will enhance the accessibility and convenience of the system.
- **Secure Payment Gateway:** The proposed system will incorporate a secure payment gateway, which will enable customers to make online payments for their orders without any security concerns.

- Improved menu and Search functionality: The proposed system would offer an improved menu and search functionality that will allow customers to easily find and order their desired food items.
- **Customer Feedback:** The proposed system will allow customers to provide feedback about their orders, which will help the admin to improve the quality of services provided.
- **Order Management:** The system displays all the orders list under the orders section where the admin can handle them with ease.
- **Invoice Receipts:** The system generates an invoice for every order so it makes easy to generate the reports.
- **Food Ordering System:** The system will helps to add favourites items to cart so it reduce the time instead of search again, easily get ordered.
- Admin can take action by selecting any and changing their current status to processing, delivered, or rejected.
- The system also calculates the total number of orders from various food items and total sales from the available restaurants.

SYSTEM REQUIREMENTS

SOFTWARE COMPONENTS

- Windows 7 or above
- SQL Server 2008
- Wamp server
- Technologies: HTML, CSS, JavaScript, PHP, MySQL, Bootstrap

Hardware Components:

- Processor Core i5
- Hard Disk 512 GB
- RAM 4GB
- Internet Connection: 1.1GHz

TOOLS AND TECHNOLOGIES USED

1. HTML: (Hyper Text Markup Language)

HTML refers to the Hyper Text Markup Language. HTML is used to create webpages. It uses many tags to make a webpage. So, it is a tag-based language. The tags of HTML are surrounded by angular bracket. It can be using wide range of colors, objects and layouts. Very useful for beginners in web designing field.

Advantages of HTML:

- 1) First advantage is widely used.
- 2) Every browser supports HTML language.
- 3) Easy to learn and use.
- 4) It is by default in every window so you don't need to purchase extra software.

2. CSS

CSS is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document. One of the favoured features is its ability to allow the sorting of document content written in markup languages (like HTML) from document presentation written in CSS.

3. JavaScript

JavaScript is high-level, interpreted, dynamically typed, or untyped programming language initially implemented within web browsers. It enables client-side scripts to interact with the users, control the browser, communicates asynchronously, and alter the web pages Document Object Model (DOM).

4. PHP

PHP is a server-side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire ecommerce sites. It is integrated with a number od popular databases, including MySQL, PostgreSQL, Oracle, Microsoft SQL Server. It was the first server-side language that could be embedded into HTML, making it is easier to add functionality to web pages needing to call external files for data.

5. MySQL

MySQL is a relational database management system based on SQL -Structured Query Language. The application is used for a wide range of purposes, including

data warehousing, e-commerce, and logging applications. The most common use for MySQL however, is for the purpose of a web database. It is open-source database software, which is supported by Oracle Company. It is fast, scalable, and easy to use database management system in comparison with Microsoft SQL server and Oracle Database. It is commonly used in conjunction with PHP scripts for creating powerful and dynamic server-side or web-based enterprise applications.

6. Bootstrap

Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing a responsive and mobile friendly website. Bootstrap is a free, open-source, front-end development frame work for the creation of websites and web apps. Designed to enable responsive development of mobile-first websites, Bootstrap provides a collection of syntax for template designs.

As a framework, Bootstrap includes the basic for responsive web development, so developers only need to insert the code into a pre-defined grid system. The bootstrap framework is a built-on HTML, CSS and JavaScript. Web developers using Bootstrap can build websites much faster without spending time worrying about basic commands and functions.

7. Wamp Server

Wamp Server is a windows web development environment. It allows you to create web applications with Apache2, PHP and a MySQL database. WampServer automatically installs everything you need to intuitively develop web applications. You will be able to tune your server without even touching its setting files. It is a collection web development tools that you can use to install an Apache server with PHP and MySQL database.

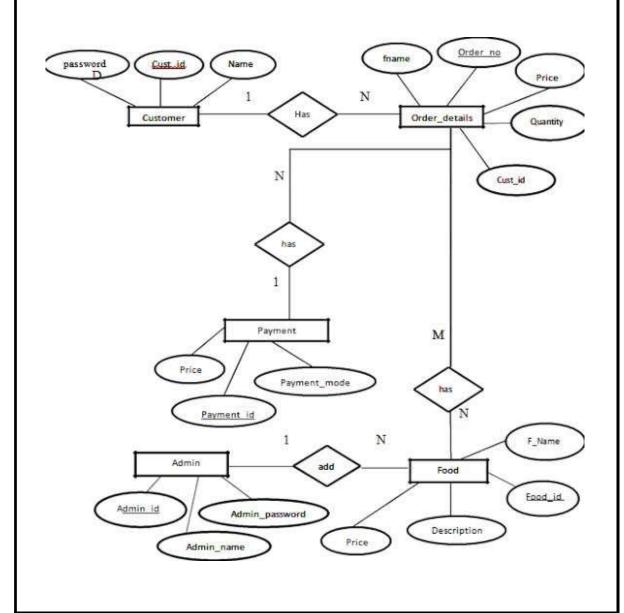
8. phpMyAdmin

phpMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the web. phpMyAdmin supports a wide range of operations on MySQL and MariaDB. Frequently used operations (managing databases, tables, columns, relations, indexes, users, permissions, etc) can be performed via the user interface, while you still have the ability to directly execute any SQL statement.

WORKING MODEL

1) E-R DIAGRAM

The Entity-Relationship (ER) model was originally proposed by Peter in 1976 as a way to unify the network and relational database views. Simply stated the ER model is a conceptual data model that views the real world as entities and relationships. A basic component of the model is the ER diagram which is used to visually represents data objects. Since Chen wrote the model has been extended and today it is commonly used for database design for the database designer.

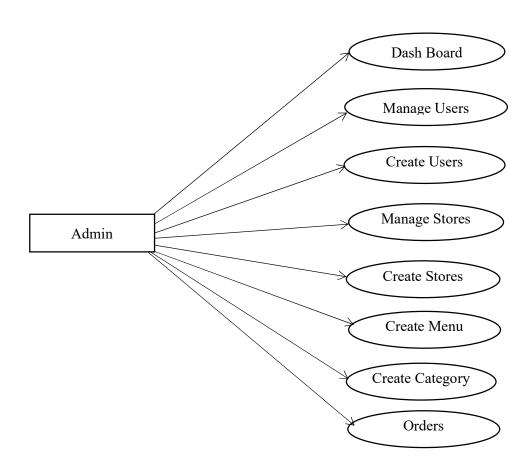


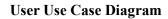
2) USE CASE DIAGRAM:

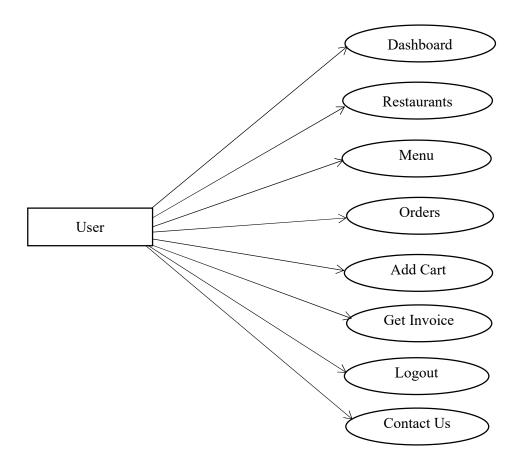
Use case diagrams model behaviour within a system and helps the developers understand of what the user requires. Use case diagram can be useful for getting a overall view of the system and clarifying who can do and more importantly what they can't do. Use case diagram consists of use cases and actors and shows the interaction between the use case and actors.

- The purpose is to show the interactions between the use case and actor.
- To represent the system requirements from user's perspective.
- An actor cloud be the end-user of the system or an external system.

Admin Use Case Diagram:



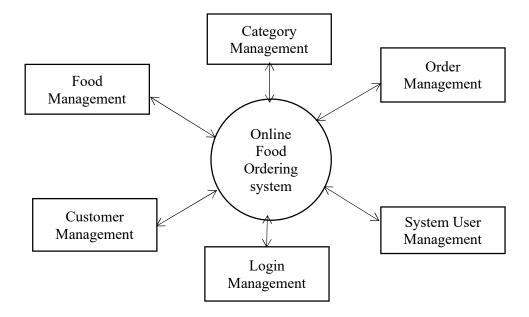




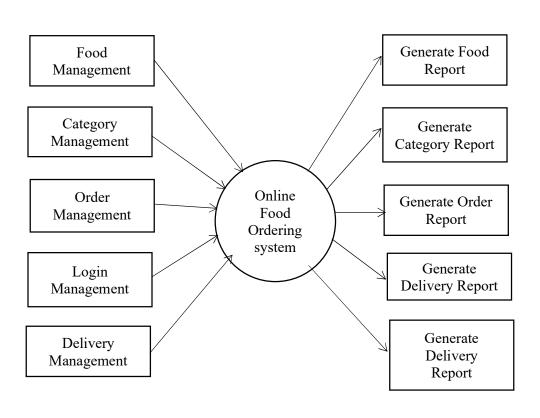
3) DATA FLOW DIAGRAM

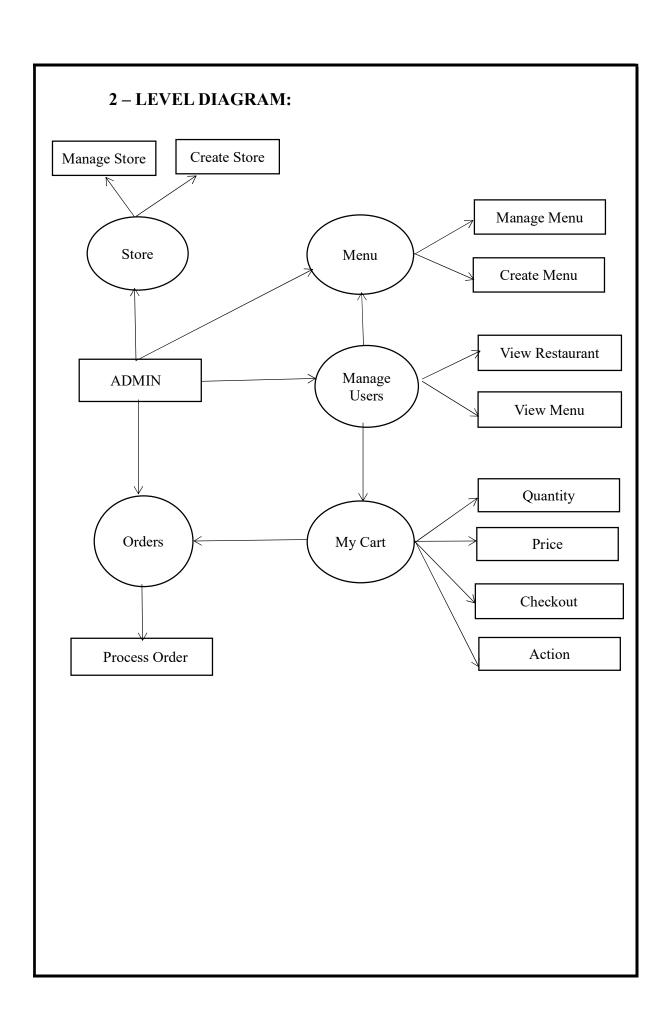
A data flow diagram maps out the flow of information for any process or system. It uses defined symbols like rectangles, circles and arrows, plus short labels, to show data inputs, outputs, storage points, and the routes between each destination. Data flow charts can range from simple, even hand-drawn process overviews, to indepth, multi-level DFDs that dig progressively deeper into how the data is handled.

0-LEVEL DFD:



1- LEVEL DFD:





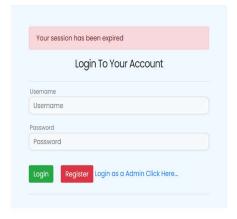
SOURCE CODE

```
admin.php
<?php
defined('BASEPATH') OR exit ('No direct script access allowed');
class Home extends CI Controller {
   public function __construct(){
       parent::__construct();
       $admin = $this->session->userdata('admin');
       if(empty($admin)) {
            $this->session->set_flashdata('msg', 'Your session has been
expired');
            redirect(base_url().'admin/login/index');
       $this->load->model('Admin model');
       $this->load->model('Store_model');
       $this->load->model('Menu model');
       $this->load->model('User model');
       $this->load->model('Order_model');
       $this->load->model('Category_model');
    }
   public function index() {
       $data['countStore'] = $this->Store_model->countStore();
       $data['countDish'] = $this->Menu model->countDish();
       $data['countUser'] = $this->User_model->countUser();
       $data['countOrders'] = $this->Order_model->countOrders();
       $data['countCategory'] = $this->Category_model->countCategory();
       $data['countPendingOrders'] = $this->Order_model->countPend-
ingOrders();
       $data['countDeliveredOrders'] = $this->Order_model->countDeliv-
eredOrders();
        $data['countRejectedOrders'] = $this->Order model->coun-
tRejectedOrders();
       $resReport = $this->Admin_model->getResReport();
       $data['resReport'] = $resReport;
       $dishReport = $this->Admin model->dishReport();
       $data['dishReport'] = $dishReport;
       $this->load->view('admin/partials/header');
       $this->load->view('admin/dashboard', $data);
       $this->load->view('admin/partials/footer');
}}
```

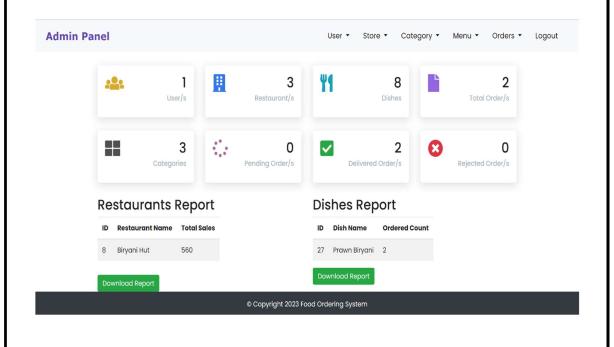
```
User.php
<?php
defined('BASEPATH') OR exit ('No direct script access allowed');
class User extends CI Controller {
   public function construct(){
       parent::__construct();
       $admin = $this->session->userdata('admin');
       if(empty($admin)) {
            $this->session->set_flashdata('msg', 'Your session has been
expired');
           redirect(base_url().'admin/login/index');
       }
    }
   public function index() {
       $this->load->model('User model');
       $users = $this->User_model->getUsers();
       $data['users'] = $users;
       $this->load->view('admin/partials/header');
       $this->load->view('admin/user/list', $data);
       $this->load->view('admin/partials/footer');
    }
   public function create_user() {
       $this->load->model('User_model');
       $this->load->library('form_validation');
       $this->form_validation->set_error_delimiters('
feedback">','');
       $this->form validation->set rules('username', 'Username', 'trim|re-
quired');
       $this->form validation->set rules('firstname', 'First
Name','trim|required');
       $this->form_validation->set_rules('lastname', 'Last
Name','trim|required');
       $this->form validation->set rules('email', 'Email', 'trim|re-
quired');
       $this->form validation->set rules('password', 'Password', 'trim|re-
quired');
       $this->form_validation->set_rules('phone', 'Phone', 'trim|re-
quired');
        $this->form_validation->set_rules('address', 'Address', 'trim|re-
quired');
}}
```

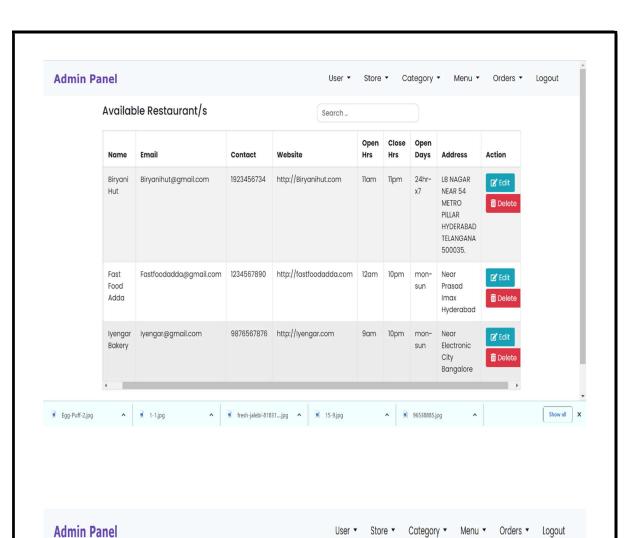
OUTPUT

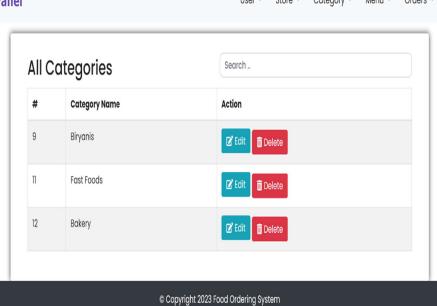
1) Login Page

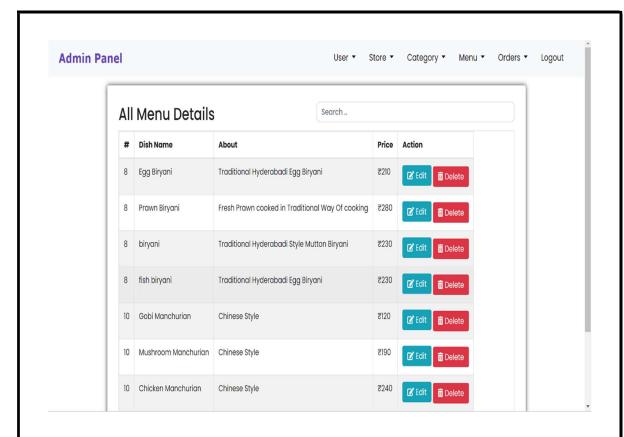


2) Admin Page

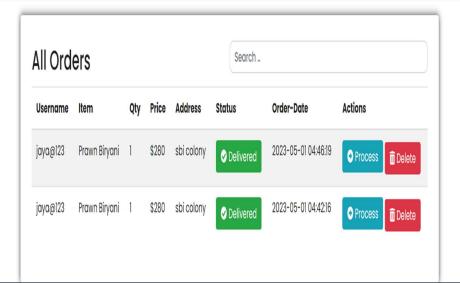






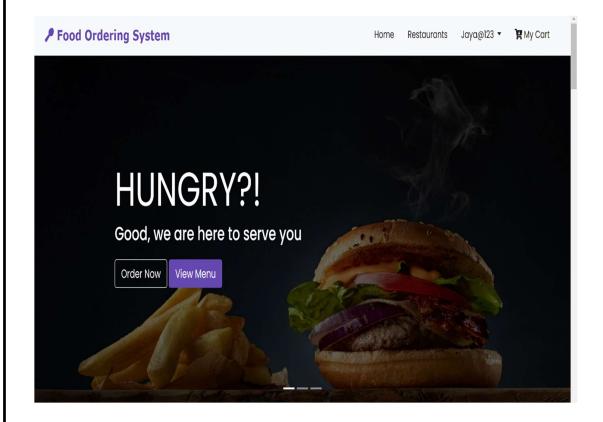






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User Page





Home Restaurants Jaya@123 ▼ 📜 My Cart

Restaurants



Biryani Hut

Biryanis Restaurant LB NAGAR NEAR 54 METRO PILLAR HYDERABAD TELANGANA 500035.



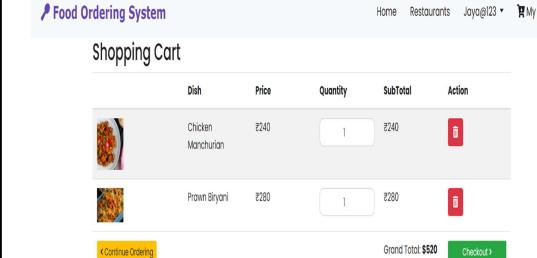
Fast Food Adda

Fast Foods Restaurant Near Prasad Imax Hyderabad



Iyengar Bakery

Bakery Restaurant Near Electronic City Bangalore

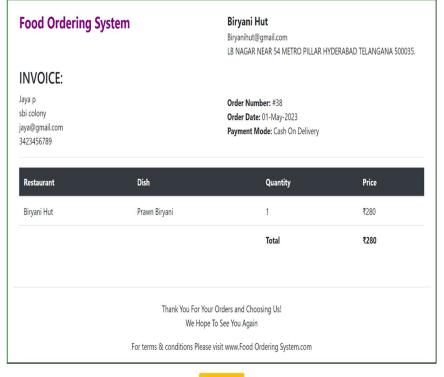


My Cart

Home

Restaurants Jaya@123 ▼

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◆ Back to Orders

FUNCTIONAL TESTING

Table 1: - Login Page Test Case Report

S.no	Action	Test Case Description	Expected Output	Actual Output	Final output
1	Run on WampServer	Running the project in Local Host	Login page	Login page	Pass
2	Login	Enter valid user name and valid password	It will be display to login page	Login Page Displayed	Pass
3	Register	To Register a new user	It will navigate to register page	Register page is displayed	Pass
4	Admin	To Login as a Admin	It will be redirected to Admin	Admin page is displayed	Pass
5	Reset	To reset the username and password	It should remove the username and password	As Expected, it is passed	Pass

Table 2: - User page Test Case Report

S.no	Action	Test Case Description	Expected Output	Actual Output	Final output
1	Run on WampServer	Running the project in Local Host	Home page	Home page	Pass
2	Home	Redirect to Home	Home page will be displayed	Home Page Displayed	Pass
3	My Cart	The Food items can be added to Cart	Items will be added to Cart	Items added to Cart	Pass
4	Restaurants	To view the list of Restaurants	Restaurants page will be opened	Restaurants	Pass

Table 3: - Admin Page Test Case Report

S. No	Test case	Test case	Expected	Actual	Final
	name	description	output	output	output
1	Dash Board	To view the overall report	It will display all the report details	Overall report is displayed	Pass
2	Create User	Adding User	User will be added	New user is added	Pass
3	Manage User	To display the total number of users	It will display the available users	Available users are displayed	Pass
4	Manage Store	To display available Restaurants	Available Restaurants will be added	Restaurants are displayed	Pass
5	Create Store	To Create a new Restaurant	Restaurant will be created	New Restaurant is added	Pass
6	Manage Category	To view the all categories	It will display the all categories	All categories is displayed	Pass
7	Create Category	To create the new category	New category will be displayed	New category is displayed	Pass
8	Menu	To view the Menu Details	It will display the all menus	Menus are displayed	Pass
9	Create Menu	To create a new item	It will create a new item in menu	Menu is added	Pass
10	Orders	To view the order status	Orders will be displayed	Orders is displayed	Pass

CONCLUSION

- 1) The proposed online food ordering system is an efficient and convenient solution for the customers to order food from their favourite restaurants.
- 2) The system provides a user-friendly interface for the customers to easily browse the menu and place orders, as well as for the restaurant owners to manage their menus and orders.
- 3) The system also provides an efficient way for the restaurant owners to manage their orders, menus, and inventory, reducing the manual efforts required for these tasks.
- 4) The proposed online food ordering system has the potential way to revolutionize the way food is ordered and delivered.
- 5) The system can have real time order tracking and customer feedback that enhance the customer experience.

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- 4) https://squareup.com/au/en/townsquare/what-is-an-online-food-ordering-system
- 5) https://www.w3schools.com/php/

----THANK YOU----