

Online Canteen Management System

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ABSTRACT

The "Online Canteen Management System " is a cutting-edge digital platform designed to modernize and streamline food service operations within educational institutions. It caters to the diverse needs of both students and staff by offering a user-friendly interface for convenient online food ordering. By reducing the need for on-site queuing, it enhances efficiency and social distancing, especially during peak hours.

This system provides canteen administrators with the tools to efficiently manage their menus in real-time, ensuring that students and staff have access to up-to-date offerings, special promotions, and dietary options. Moreover, it facilitates accurate inventory management, helping to avoid food shortages and reduce wastage, as well as analyzing consumption patterns to optimize procurement. Additionally, the system generates crucial data on customer behavior, ordering trends, and menu item popularity. This data-driven insight allows institutions to make informed decisions regarding menu planning and targeted marketing strategies.

Lastly, robust role-based access control ensures the security of the system, allowing authorized personnel to manage menus, orders, and payments effectively. In summary, the Online Canteen Management System offers an all-encompassing solution to enhance the dining experience on college campuses, promoting convenience, safety, and operational efficiency for students and staff alike.

INTRODUCTION:

In an era defined by digital innovation and the quest for efficiency, the management of campus canteens within educational institutions has evolved significantly. The "Online Canteen Management System for College Students and Staff" represents a significant stride forward in this evolution. This system is a web-based application that aims to revolutionize the way students and staff interact with their college or university's food services.

Traditionally, college canteens have been associated with long queues, limited menu options, and the

often cumbersome process of making payments. This system was developed in response to these challenges, seeking to create a seamless and user-centric experience for all stakeholders involved. By harnessing the power of the internet and cutting-edge software, it offers a range of features that promise to redefine the campus dining experience.

At its core, this system empowers students and staff to place food orders online, thereby reducing waiting times and the need for physical queuing. It also offers canteen administrators a suite of tools to manage menus in real-time, ensuring that the offerings remain current and diverse. Inventory management capabilities further contribute to efficient procurement and reduced food wastage.

The integration of secure payment gateways not only simplifies transactions but also enhances financial transparency. Moreover, users can contribute to the system's continuous improvement by providing feedback and ratings on the food and service quality.

RESEARCH METHODOLOGY:

EXISTING SYSTEM:

- ☐ Manual Ordering: Students and staff must physically visit the canteen, stand in line, and place their orders in person, which often leads to long waiting times, especially during peak hours.
- ☐ Paper Menus: Canteen menus are usually displayed on printed boards, and any changes or updates to the menu are communicated via physical signage. This can lead to delays in menu information updates and can be less environmentally friendly.
- ☐ Cash Payments: Payments are primarily made in cash, which can be inconvenient and poses challenges related to financial transparency.

PROPOSED SYSTEM:

- ☐ Online Ordering: The proposed system allows students and staff to place food orders online through a user-friendly web interface, reducing the need for physical queuing and enhancing convenience.

☐ Real-Time Menu Updates: Canteen administrators can easily update menus in real-time, ensuring that students and staff have access to the most current offerings, including special promotions and dietary options.

☐ Inventory Management: The system provides tools for efficient inventory management, helping canteen staff monitor stock levels, prevent shortages, and reduce food wastage.

SYSTEM REQUIREMENT:

Hardware Specification:

- ☐ System : Pentium Dual Core.
- ☐ Hard Disk : 120 GB.
- ☐ Monitor : 15''LED
- ☐ Input Devices : Keyboard, Mouse
- ☐ Ram : 1 GB

Software Specification

- ☐ Operating system : Windows 7.
- ☐ Coding Language :HTML,CSS,JS
- ☐ Tool : Visual Studio 2008
- ☐ Database : SQL SERVER 2005

MODULE DESCRIPTION:**Front End:**

HTML : Hypertext Markup Language (HTML) is the standard markup language for creating web pages and applications. Each page contains a series of connections to other pages called hyperlinks. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. HTML elements are delineated by tags, written using angle

brackets.

CSS: Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. CSS is designed primarily to enable the separation of presentation and content, including aspects such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the

BACK END:

The back end refers to parts of a computer application or a program's code that allow it to operate and that cannot be accessed by a user. Most data and operating syntax are stored and accessed in the back end of a computer system. Typically the code is comprised of one or more programming languages

MODULE IMPLEMENTATION:**ADMIN'S LOGIN PAGE:**

```
<!DOCTYPE html>
<html lang="en" >
<?php    include("../connection/connect.php");
error_reporting(E_ALL); session_start();
```

```
$message = "";
$success = "";
if(isset($_POST['submit'])){
$username = $_POST['username'];
$password = $_POST['password'];
if(!empty($_POST["submit"])){
$loginqury = "SELECT * FROM admin WHERE username='$username' &&
password='".md5($password)."'";
$result=mysqli_query($db, $loginqury);
$row=mysqli_fetch_array($result);
if(is_array($row)){
$_SESSION["adm_id"] = $row['adm_id'];
$success = "Login successfull,Redirecting...";
header("refresh:2;url=dashboard.php"); } else{
$message = "Invalid Username or Password!";
}}}
if(isset($_POST['submit1']) ){
if(empty($_POST['cr_user']) ||
empty($_POST['cr_email'])||
empty($_POST['cr_pass']) ||
empty($_POST['cr_cpass']) ||
empty($_POST['code'])){
$message = "All required* fields must be filled";}else{
$check_username= mysqli_query($db, "SELECT username FROM admin where username =
".$_POST['cr_user']."' ");
$check_email = mysqli_query($db, "SELECT email FROM admin where email =
".$_POST['cr_email']."' ");
$check_code = mysqli_query($db, "SELECT adm_id FROM admin where code =
".$_POST['code']."' ");
if($_POST['cr_pass'] != $_POST['cr_cpass']){
$message = "Password does not match";
}
elseif (!filter_var($_POST['cr_email'], FILTER_VALIDATE_EMAIL)){
```

```

$message = "Invalid email address.. Please type a valid email!";
}
elseif(mysqli_num_rows($check_username) > 0){
$message = 'Username already exists!'; } elseif(mysqli_num_rows($check_email) > 0) {
$message = 'Email Already exists!'; }
if(mysqli_num_rows($check_code) > 0) {
$message = "Unique Code Already Redeem!"; }else {
$result = mysqli_query($db, "SELECT id FROM admin_codes WHERE codes = " .
$_POST['code'] . "");
if (mysqli_num_rows($result) == 0) {
$message = "Invalid code!";
} else {
$sql = "INSERT INTO admin (U,password,email,code) VALUES (" .
$_POST['cr_user'] . "," . md5($_POST['cr_pass']) . "," . $_POST['cr_email'] . "," .
$_POST['code'] . ")"; mysqli_query($db,
$sql);
$success = "Account Created successfully!";
header("refresh:2");
}}}}
?>
<head>
<meta charset="UTF-8">
<link rel="icon" type="image/png" sizes="16x16" href="images/manager1.png">
<title>Food Roast Adm-Login</title>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/meyer-
reset/2.0/reset.min.css">
<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Roboto:400,100,300,500,700,900"
prefetch'
href='https://fonts.googleapis.com/css?family=Montserrat:400,700'>
<link rel="stylesheet prefetch" href="https://maxcdn.bootstrapcdn.com/font-
awesome/4.3.0/css/font-awesome.min.css">
<link rel="stylesheet" href="css/login1.css">
</head><body>

```

```
<div class="container">
<div class="info">
<a      class="navbar-brand"      href="login.php">       </a><br
</div></div>

<div class="form">

<h5      style="color:yellow;filter:drop-shadow(1px      1px      3px      red);font-family:      cursive;font-
weight:bold;font-size:25px;">Admin<span      style="color:white;font-weight:bold;      font-      family:
cursive;font-size:25px;"> login page</span></h5>
<br><div class="thumbnail"></div>

<form class="register-form" action="index.php" method="post">
<input type="text" placeholder="Username" name="cr_user"/>
<input type="text" placeholder="Email address" name="cr_email"/>
<input type="password" placeholder="Password" name="cr_pass"/>
<input type="password" placeholder="Confirm password" name="cr_cpass"/>
<input type="password" placeholder="Unique-Code" name="code"/>
<input type="submit" name="submit1" value="Create" />
<p class="message">Already registered? <a href="#">Sign In</a></p><br>
</form>

<span      style="color:white;font-weight:bold;font-family:cursive;filter:drop-shadow(1px      1px      5px
rgb(255, 9, 9));"><?php echo $message; ?></span><br>
<span      style="color:white;font-weight:bold;font-family:cursive;filter:drop-shadow(1px      1px      5px
rgb(124, 255, 1));"><?php echo $success; ?></span><br>
<form class="login-form" action="index.php" method="post"><br>
<input type="text" placeholder="username" name="username"/>
<input type="password" placeholder="password" name="password"/>
<input type="submit" name="submit" value="Login" />
<div      class="link      forget-pass      text-left"><a      href="../../../forgotPassword/forgot-password-
admin.php">Forgot password?</a></div>
<br><p class="message">Not registered? <a href="#">Create an account</a></p>
</form></div>

<script src='http://cdnjs.cloudflare.com/ajax/libs/jquery/2.1.3/jquery.min.js'></script>
<script src='js/index.js'></script>
```

</body></html>

USER'S LOGIN PAGE:

```
<!DOCTYPE html>
<html lang="en" >
<?php    include("connection/connect.php");
error_reporting(0);
session_start();

if (isset($_POST['submit'])) {
$rollnumber = $_POST['rollnumber'];
$password = $_POST['password'];

if (!empty($_POST["submit"])) {
$loginquery = "SELECT * FROM users WHERE rollnumber='$rollnumber' && password='" .
md5($password) . "'";
$result = mysqli_query($db, $loginquery);
$row = mysqli_fetch_array($result);

if (is_array($row)) {
$_SESSION["user_id"] = $row['u_id'];
$success = "Login successfull, Redirecting...";
header("refresh:1;url=index.php");
} else {
$checkQuery = "SELECT * FROM users WHERE rollnumber='$rollnumber'";
$checkResult = mysqli_query($db, $checkQuery);
$checkRow = mysqli_fetch_array($checkResult);

if (is_array($checkRow)) {
$message = "Invalid password!";
} else {
$message = "It looks like you're not yet a member! Click on <span style=' color: #ffd000;filter:drop-
shadow(1px 1px 1px rgb(255, 0, 0));>Create an account</span> tosignup.";
?>

<head>
<meta charset="UTF-8">
<link rel="icon" type="image/png" sizes="16x16" href="images/managerlogin.png">
<title>UserLogin</title>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/meyer-
reset/2.0/reset.min.css">

<link                                rel='stylesheet                                prefetch'
href='https://fonts.googleapis.com/css?family=Roboto:400,100,300,500,700,900|Robot
```

```
oDraft:400,100,300,500,700,900'>
<link rel='stylesheet prefetch' href='https://maxcdn.bootstrapcdn.com/font-
awesome/4.3.0/css/font-awesome.min.css'>
<link rel="stylesheet" href="css/login.css">
</head>
<body>
<div class="container">
<div class="info">
<a class="navbar-brand" href="login.php">  </a>
</div>
<div class="form">
<h5 style="color:yellow;filter:drop-shadow(1px 1px 3px red);font-family: cursive;font-
weight:bold;font-size:25px;">User<span style="color:white;font-weight:bold; font- family:
cursive;font-size:25px;"> login page</span></h5>
<br><div class="thumbnail"></div>
<span style="color:white;font-weight:bold;font-family:cursive;filter:drop-shadow(1px 1px 5px
rgb(255, 9, 9));"><?php echo $message; ?></span><br>
<span style="color:white;font-weight:bold;font-family:cursive;filter:drop-shadow(1px 1px 5px
rgb(124, 255, 1));"><?php echo $success; ?></span><br>
<form class="login-form" action="" method="post"><br>
<input type="text" placeholder="rollnumber" required name="rollnumber"/>
<input type="password" placeholder="Password" required name="password"/>
<input type="submit" id="buttn" name="submit" value="Login" />
<div class="link forget-pass text-left"><a href="forgotPassword/forgot-
password.php">Forgot password?</a></div>

<br><p class="message">Not registered?<a href="registration.php"> Create an
account</a></p>
</form>
</div>
</div>
<script src='http://cdnjs.cloudflare.com/ajax/libs/jquery/2.1.3/jquery.min.js'></script>

</body>

</html>
```

ADMIN'S DASHBOARD:

```
<!DOCTYPE html>
<html lang="en">
<?php include("../connection/connect.php");
error_reporting(E_ALL); session_start();
if(empty($_SESSION["adm_id"]))
{
header('location:index.php');
```

```
}
else
{
?>
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<!-- Tell the browser to be responsive to screen width -->
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="">
<meta name="author" content="">
<!-- Favicon icon -->
<link rel="icon" type="image/png" sizes="16x16" href="images/foodroast_logo.png">
<title>FoodRoast - Admin Dashboard</title>
<!-- Bootstrap Core CSS -->
<link href="css/lib/bootstrap/bootstrap.min.css" rel="stylesheet">
<!-- Custom CSS -->
<link href="css/helper.css" rel="stylesheet">
<link href="css/style1.css" rel="stylesheet">
<!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries
-->
<!-- WARNING: Respond.js doesn't work if you view the page via file:** -->
<!--[if lt IE 9]>
<script src="https:**oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>
<script src="https:**oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>
<![endif]-->
</head>

<body class="fix-header">
<!-- Preloader - style you can find in spinners.css -->
<div class="preloader">
<svg class="circular" viewBox="25 25 50 50">

<circle class="path" cx="50" cy="50" r="20" fill="none" stroke-width="2" stroke-
miterlimit="10" /> </svg>
</div>
<!-- Main wrapper -->
<div id="main-wrapper">
<!-- header header -->
<div class="header">
<nav class="navbar top-navbar navbar-expand-md navbar-light">
<!-- Logo -->
<div class="navbar-header">
<a class="navbar-brand" href="index.php">
<!-- Logo icon -->
<b></b>
```

[illegible]

```
<div class="dropdown-menu dropdown-menu-right animated zoomIn">
<ul class="dropdown-user">
<li><a href="logout.php"><i class="fa fa-power-off"></i> LogOut</a></li>
<!-- End header header -->
<!-- Left Sidebar -->
<div class="left-sidebar">
<!-- Sidebar scroll-->
<div class="scroll-sidebar">
<!-- Sidebar navigation-->
<nav class="sidebar-nav">
<ul id="sidebarnav">
<li class="nav-devider"></li>
<li class="nav-label">Admin Panel</li>
<li> <a class="has-arrow " href="#" aria-expanded="false"><i class="fa fa-tachometer"></i><span
class="hide-menu">Home</span></a>
<ul aria-expanded="false" class="collapse">
<li><a href="dashboard.php">Dashboard</a></li>

</ul>
</li>

<li class="nav-label">LOG</li>
<li> <a class="has-arrow " href="#" aria-expanded="false"><i class="fa fa-hourglass"></i><span
class="hide-menu">Status</span></a>
<ul aria-expanded="false" class="collapse">
<li><a href="status.php">Today's Order</a></li>
</ul>

</ul>
</li>
<li> <a class="has-arrow " href="#" aria-expanded="false"><i class="fa fa-archive f-s-20 color-
warning"></i><span class="hide-menu">Restaurants</span></a>
<ul aria-expanded="false" class="collapse">
<li><a href="allrestaunt.php">All Restaurants</a></li>
<li><a href="add_category.php">Add Category</a></li>
<li><a href="add_restraunt.php">Add Restaurant</a></li>

</ul>
</li>
<li> <a class="has-arrow " href="#" aria-expanded="false"><i class="fa fa-cutlery" aria-
hidden="true"></i><span class="hide-menu">Menu</span></a>
<ul aria-expanded="false" class="collapse">
<li><a href="all_menu.php">All Menues</a></li>
<li><a href="add_menu.php">Add Menu</a></li>

</ul>
</li>
```

```
</li>
<li> <a class="has-arrow " href="#" aria-expanded="false"><i class="fa fa-shopping- cart" aria-
hidden="true"></i><span class="hide-menu">Orders</span></a>
<ul aria-expanded="false" class="collapse">
<li><a href="all_orders.php">All Orders</a></li>

</ul>
</li>

</ul>
</nav>
<!-- End Sidebar navigation -->
</div>
<!-- End Sidebar scroll-->
</div>
<!-- End Left Sidebar -->
<!-- Page wrapper -->
<div class="page-wrapper" style="height:100%;">
<!-- Bread crumb -->
<div class="row page-titles">
<div class="col-md-5 align-self-center">
<h3 class="text-primary">Dashboard</h3> </div>

</div>
<!-- End Bread crumb -->

<!-- Container fluid -->
<div class="container-fluid">
<!-- Start Page Content -->
<div class="row">

<div class="col-md-3">
<div class="card p-30">
<div class="media">
<div class="media-left meida media-middle">
<span><i class="fa fa-archive f-s-40 color-primary"></i></span>
</div>
<div class="media-body media-text-right">
<h2><?php $sql="select * from restaurant";
$result=mysqli_query($db,$sql);
$rws=mysqli_num_rows($result);

echo $rws;?></h2>
<p class="m-b-0">Restaurants</p>

<div class="col-md-3">
<div class="card p-30">
```

```
<div class="media">
<div class="media-left meida media-middle">
<span><i class="fa fa-cutlery f-s-40 color-info" aria-hidden="true"></i></span>
</div>
<div class="media-body media-text-right">
<h2><?php $sql="select * from dishes";
$result=mysqli_query($db,$sql);
$rws=mysqli_num_rows($result);

echo $rws;?></h2>
<p class="m-b-0">Dishes</p>
<div class="col-md-3">
<div class="card p-30">
<div class="media">
<div class="media-left meida media-middle">
<span><i class="fa fa-user f-s-40 color-danger"></i></span>
</div>
<div class="media-body media-text-right">
<h2><?php $sql="select * from users";
$result=mysqli_query($db,$sql);
$rws=mysqli_num_rows($result);

echo $rws;?></h2>

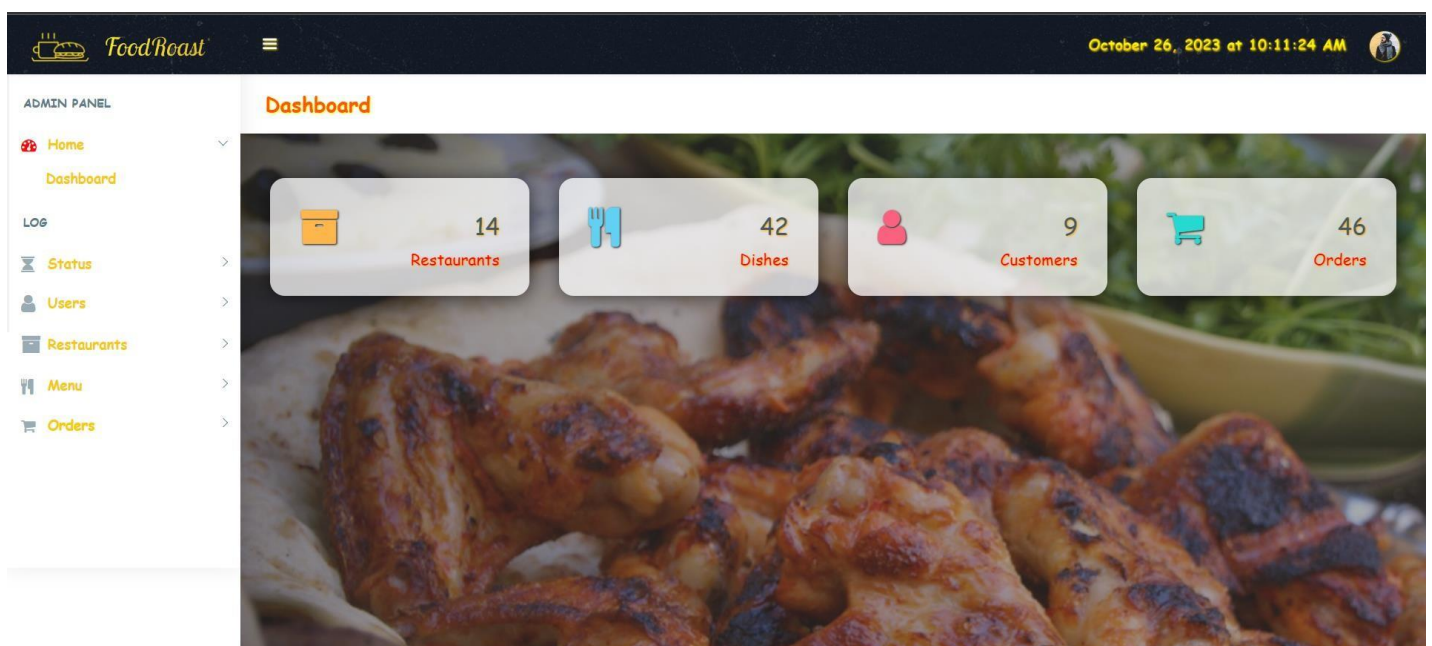
<p class="m-b-0">Customers</p>
<div class="col-md-3">
<div class="card p-30">
<div class="media">
<div class="media-left meida media-middle">
<span><i class="fa fa-shopping-cart f-s-40 color-success" aria-
hidden="true"></i></span>
</div>
<div class="media-body media-text-right">
<h2><?php $sql="select * from users_orders";
$result=mysqli_query($db,$sql);
$rws=mysqli_num_rows($result);
</div>
<!-- End PAge Content -->
</div>
<!-- End Container fluid -->
<!-- footer -->
<footer class="footer"> © Copyright 2023-2024 by Dhiva. All Rights
Reserved..</footer>
<!-- End footer -->
</div>
<!-- End Page wrapper -->
```

```
</div>
<!-- End Wrapper -->
<!-- All JQuery -->
<script src="js/lib/jquery/jquery.min.js"></script>
<!-- Bootstrap tether Core JavaScript -->
<script src="js/lib/bootstrap/js/popper.min.js"></script>
<script src="js/lib/bootstrap/js/bootstrap.min.js"></script>
<!-- slimscrollbar scrollbar JavaScript -->
<script src="js/jquery.slimscroll.js"></script>
<!--Menu sidebar -->
<script src="js/sidebarmenu.js"></script>
<!--stickey kit -->
<script src="js/lib/sticky-kit-master/dist/sticky-kit.min.js"></script>
<!--Custom JavaScript -->
<script src="js/custom.min.js"></script>

</body>
</html>
<?php
}
?>
```

EXECUTION:

ADMIN HOME PAGE:



FoodRoast								
October 26, 2023 at 10:14:13 AM								
ADMIN PANEL								
Home	>							
LOG	>							
Status	>							
Users	>							
Restaurants	>							
Menu	>							
Orders	>							
All Orders	>							

OrderID	RollNumber	Dishes	Quantity	Price	Status	OrderDate	PickupTime	Action
44	20it003	Chicken Chettinad Curry	1	₹ 350.00	Pending	August 11, 2023 ~ 10:36:36 AM	11:17 AM	 
48	20it001	Winter Chicken	1	₹ 250.00	On the Way!	August 13, 2023 ~ 11:41:51 AM	11:21 AM	 
56	20it007	Caprese stuffed chicken	1	₹ 100.00	Pending	August 11, 2023 ~ 10:36:36 AM	09:28 AM	 
59	20it007	Schezwan Fried Rice	1	₹ 200.00	Pending	August 11, 2023 ~ 10:36:36 AM	09:40 AM	 
70	20it007	Caprese stuffed chicken	1	₹ 100.00	Pending	August 11, 2023 ~ 10:36:36 AM	02:43 AM	 
71	20it007	Caprese	1	₹	Pending	August 11,	12:35 PM	 

USER'S PAGE


Home Dishes Welcome, dhiva

Choose it and Enjoy your meals!

1. Choose your Tasty Dish

2. Place Order with Pick Up Time

3. Pick up Food

[Order your dishes](#)



FoodRoast
we serve for you

HomeCategoryYour OrdersLogOut



FastFood

[View Menu](#)



ChatItems

[View Menu](#)



Breakfast

[View Menu](#)

Popular tags

PizzaSandwich

BarbequeFish

DesertSalad



FoodRoast
we serve for you

HomeCategoryYour OrdersLogOut

Your Shopping Cart

Total Amount

₹0

Free Shipping

Cannot proceed to checkout without adding items.

Your Menu



French Fries
French fries, are one of the most popular side dishes in the world. They find accompaniment in dips, mayonnaise, ketchup, and even vinegar.

₹150.00

1

[Add to cart](#)



French Toast
French toast is a dish made of sliced bread soaked in beaten eggs and typically milk, then pan fried. Alternative names and variants include "eggy bread"

₹200.00

1

[Add to cart](#)



Winter Chicken
chicken fried with beautiful, ripe, cherry tomatoes in a creamy sauce is guaranteed to hit the spot. Add a dollop of pesto for an extra layer of nutty flavours

₹250.00

1

[Add to cart](#)

Popular tags

BiryaniChilli chicken

Fried RiceKebab

NoodlesCurry

ParottaFish fry

DealsCoupons


Home Category Your Orders LogOut

Cart Summary

NOTE:[Click on the dish name, if u want to add your own recipe]

Items	⇒French Fries x 1
Cart Subtotal	₹150
Pickup Time	--:-- --:--
Total	₹150

☒ Cash on delivery
 Pay digitally with SMS Pay Link. Cash may not be accepted in COVID restricted areas.

☐ Credit Card

Order now

ADMIN'S PAGE:


October 26, 2023 at 12:24:17 PM

ADMIN PANEL

- Home
- Dashboard
- LOG
- Status
- Users
- Categories
- Menu
- Orders

Dashboard



5

Categories



42

Dishes



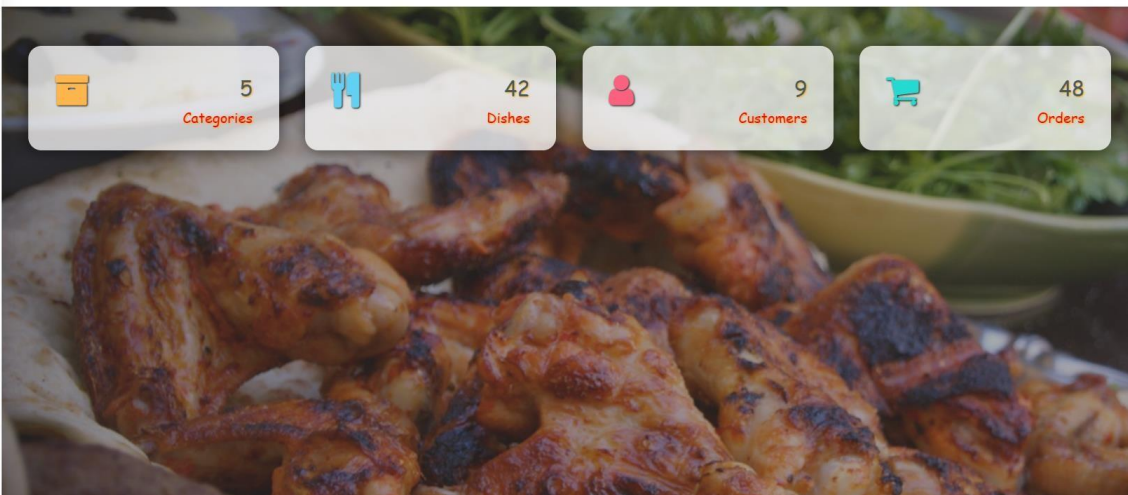
9

Customers



48

Orders



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FoodReast								
October 26, 2023 at 12:27:37 PM								
ADMIN PANEL								
Home								
LOG								
Status								
Users								
Categories								
Menu								
Orders								
All Orders								
All User Orders								
Show 10 entries								
Search:								
OrderID	RollNumber	Dishes	Quantity	Price	Status	OrderDate	PickupTime	Action
44	20it003	Chicken Chettinad Curry	1	₹ 350.00	Pending	August 11, 2023 ~ 10:36:36 AM	11:17 AM	
48	20it001	Winter Chicken	1	₹ 250.00	On the Way!	August 13, 2023 ~ 11:41:51 AM	11:21 AM	
56	20it007	Caprese stuffed chicken	1	₹ 100.00	Pending	August 11, 2023 ~ 10:36:36 AM	09:28 AM	
59	20it007	Schezwan Fried Rice	1	₹ 200.00	Pending	August 11, 2023 ~ 10:36:36 AM	09:40 AM	
70	20it007	Caprese stuffed chicken	1	₹ 100.00	Pending	August 11, 2023 ~ 10:36:36 AM	02:43 AM	
71	20it007	Caprese stuffed chicken	1	₹ 100.00	Pending	August 11, 2023 ~ 10:36:36 AM	12:35 PM	

CONCLUSION:

- ❖ In Conclusion, "Online Canteen Management System" represents a significant leap in streamlining and enhancing the food service experience within educational institutions.
- ❖ By enabling online food ordering, the system reduces the need for physical queuing, which has been a common inconvenience for students and staff.
- ❖ The system's real-time menu updates empower canteen administrators to keep menus current, ensuring that students and staff have access to the latest offerings and promotions.
- ❖ Efficient inventory management tools prevent food shortages and reduce wastage, contributing to cost savings and sustainability.
- ❖ The integration of secure payment gateways allows for cashless transactions, enhancing financial transparency and security.
- ❖ The system's feedback and ratings mechanisms promote continuous improvement in food quality and service.
- ❖ In summary, the "Online Canteen Management System for College Students and Staff" promises to modernize and optimize campus dining, making it more efficient and user-friendly. This system is a testament to the power of technology in improving services and experiences within educational institutions.

FUTURE WORK:

- ☐ Mobile Application Development: Consider developing dedicated mobile applications for iOS and Android platforms, allowing users to place orders and access canteen services through their smartphones.
- ☐ Integration with Student and Staff IDs: Explore the integration of the system with student and staff identification cards for seamless authentication and access to canteen services.
- ☐ AI-Powered Menu Suggestions: Implement artificial intelligence to provide personalized menu suggestions to users based on their past orders and preferences, enhancing the user experience.

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