

PROJECT DOCUMENTATION

RESTO – Online Restaurant Management Website

1. Introduction

The **Resto Restaurant Website** is a web-based application developed using **PHP and MySQL**. This system allows restaurants to display their food menu online and provides an **admin panel** to manage food items, images, and customer messages.

The project demonstrates **database connectivity, CRUD operations, image upload, and session-based authentication**, making it suitable for academic submission.

2. Objectives of the Project

- To develop a dynamic restaurant website
 - To display food items with images and prices
 - To allow admin to manage menu items
 - To store customer contact messages
 - To understand PHP–MySQL integration
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3. Scope of the Project

The project is suitable for **small and medium restaurants**.

Future enhancements can include:

- Online food ordering
 - Payment gateway
 - Customer login system
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4. Technology Used

Component	Technology
Frontend	HTML, CSS

Component	Technology
Backend	PHP
Database	MySQL
Server	XAMPP
Tools	VS Code, phpMyAdmin

5. System Modules

5.1 User Module

- View home page
- View food menu with images
- Read about restaurant
- Send message through contact form

5.2 Admin Module

- Secure admin login
 - Add food items with images
 - Edit and delete food items
 - View customer messages
 - Logout functionality
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6. ER Diagram Explanation

The **Entity Relationship Diagram (ERD)** represents the database structure and relationships.

Entities

Admin

- admin_id (Primary Key)
- username
- password

Foods

- food_id (Primary Key)
- name
- description
- price

- image
- category

Contacts

- contact_id (Primary Key)
- name
- email
- message
- created_at

Relationships

- One admin can manage many food items
 - Admin can view customer messages
 - Users can submit contact messages
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7. Data Flow Diagram (DFD)

DFD Level 0 (Context Diagram)

- User interacts with the system to view menu and send messages
- Admin interacts with the system to manage food items and messages

DFD Level 1

- Admin Login Process
 - Food Management Process
 - Menu Display Process
 - Contact Form Process
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8. Database Design

Database Name: `resto_db`

Tables

1. admin
2. foods
3. contacts

9. SQL Code

```
CREATE DATABASE IF NOT EXISTS resto_db;
USE resto_db;

CREATE TABLE admin (
    id INT AUTO_INCREMENT PRIMARY KEY,
    username VARCHAR(50) NOT NULL,
    password VARCHAR(100) NOT NULL
);

CREATE TABLE foods (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    description TEXT,
    price DECIMAL(6,2) NOT NULL,
    image VARCHAR(255),
    category VARCHAR(50)
);

CREATE TABLE contacts (
    id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    email VARCHAR(100) NOT NULL,
    message TEXT NOT NULL,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);

INSERT INTO admin (username, password)
VALUES ('admin', 'admin123');
```

10. Hardware & Software Requirements

Hardware

- Minimum 4 GB RAM
- Intel i3 or higher processor

Software

- Windows OS
 - XAMPP Server
 - Web Browser
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11. Advantages

- Easy to use interface
 - Secure admin authentication
 - Dynamic food management
 - Image upload functionality
 - Time-saving for restaurant owners
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12. Limitations

- No online payment
 - No customer login
 - Single admin support
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13. Future Enhancements

- Online ordering system
 - Payment gateway integration
 - Customer reviews & ratings
 - Email notifications
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14. Conclusion

The **Resto Restaurant Website** successfully fulfills the objective of providing a dynamic and user-friendly restaurant management system.

It effectively demonstrates **PHP–MySQL integration, CRUD operations, image upload, and session management**, making it suitable for academic evaluation.
