

# Restaurant Management System

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## Abstract

This Restaurant Management System is a Django-based web application that allows users to explore menu items, submit feedback, and place orders with ease. The platform supports admin-side item and category management, user-side booking, and shopping cart features.

## Major Modules

1. User Authentication (Login/Signup)
2. Menu Browsing and Filtering
3. Feedback Submission with Rating and Image
4. Cart Management (Add to Cart, View Cart)

## Minor Modules

1. About Us Section
2. Table Booking Module
3. Static Pages like Home, Contact

## Tools Used

- Django (Backend Framework)
- HTML, CSS (Frontend Styling)
- Bootstrap (Responsive Design)
- JavaScript (Interactivity and AJAX Requests)

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- SQLite (Database)
- GitHub (Version Control)

## Database Used

SQLite is used as the backend database. Models are defined using Django ORM, including Item, Category, Feedback, Booking, and User models.

## ER Diagram

The ER diagram describes the relationships between models like Item, Category, Feedback, Booking, and User. (ER diagram can be added as an image if needed.)

## Description

The application follows MVC architecture and provides a clean user interface. Admins can add/edit items and categories. Users can browse menu items, add to cart, and submit feedback.

JavaScript is used for:

- Handling 'Add to Cart' interactions.
- Filtering menu items by category.
- Enhancing user experience through dynamic updates.

## Feature Enhancement

- Integrated JavaScript for real-time cart operations.
- Added category-based filtering using data attributes.
- Feedback form supports image uploads and rating.
- Messages system implemented to confirm feedback and actions.

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## Conclusion

The Restaurant Management System successfully demonstrates a full-stack Django application with essential features like authentication, CRUD operations, dynamic frontend interactivity, and user engagement modules like feedback and cart.