ONLINE FOOD ORDERING SYSTEM

Project Report

1. Introduction

The Online Food Ordering System is a web-based application developed using Django framework. The system allows users to browse restaurants, view food items, add items to cart, and place orders online.

The main objective of this project is to simplify the food ordering process and provide a user-friendly platform for customers and administrators.

1. Objectives of the Project

To develop a web-based food ordering platform.

To allow users to search restaurants and food items.

To implement cart functionality with quantity management.

To allow users to place orders online.

To provide an admin panel for managing restaurants and food items.

To understand Django MVT architecture.

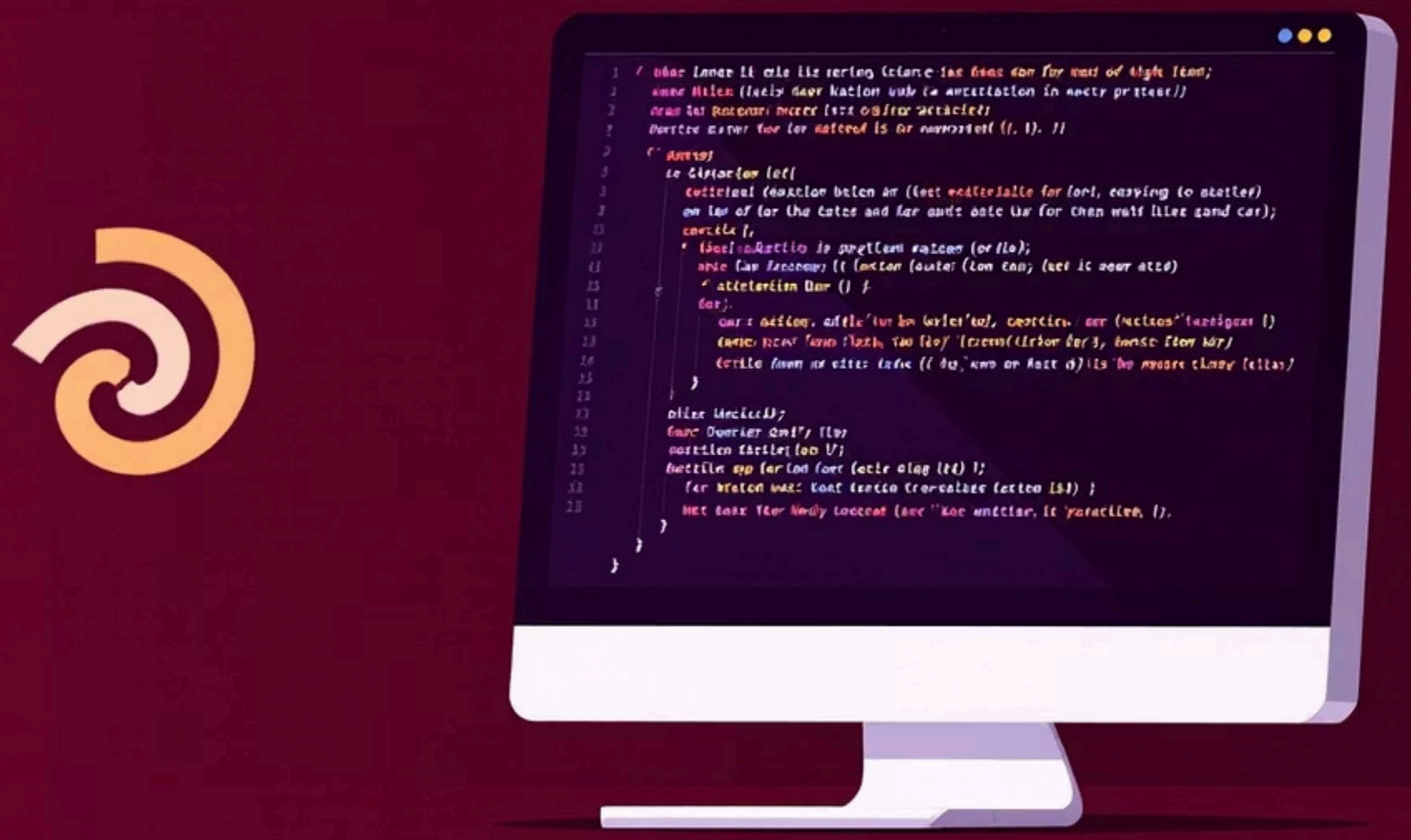
1. Scope of the Project

The project is suitable for:

- Restaurants
- Cafes
- Food delivery startups
- College-level web application development

Future scope includes:

- Online payment gateway integration
- Order tracking system
- Ratings and reviews
- Mobile application version



1. Technologies Used

Core Technologies

Programming Language: Python

Framework: Django

Frontend: HTML, CSS, Bootstrap

Additional Tools

Database: SQLite

Version Control: Git (optional)

1. System Architecture

The system follows Django's MVT architecture:

1

Model

Handles database structure (Restaurant, FoodItem, Cart, Order)

2

View

Handles business logic

3

Template

Handles frontend design

The application interacts with the database through Django ORM.

1. Modules of the System

6.1 User Module

- Register/Login
- Browse restaurants
- Search food items
- Add to cart
- Increase/decrease quantity
- Remove items from cart
- Place order

6.2 Restaurant Module

- Add restaurant (Admin)
- Manage restaurant details

6.3 Food Module

- Add food items (Admin)
- Upload food images
- Assign food to restaurant

6.4 Cart Module

- Add to cart
- Update quantity
- Delete item
- Calculate total price

6.5 Order Module

- Place order
- Store order details
- Manage order status

1. Database Design

The system contains the following tables:

User (Default Django User model)

Restaurant

FoodItem

Cart

Order

Relationships:

- One restaurant can have many food items.
- One user can have multiple cart items.
- One order belongs to one user.

1. Features of the System

Multiple restaurant listing

Dynamic food menu

Search functionality

Food image upload

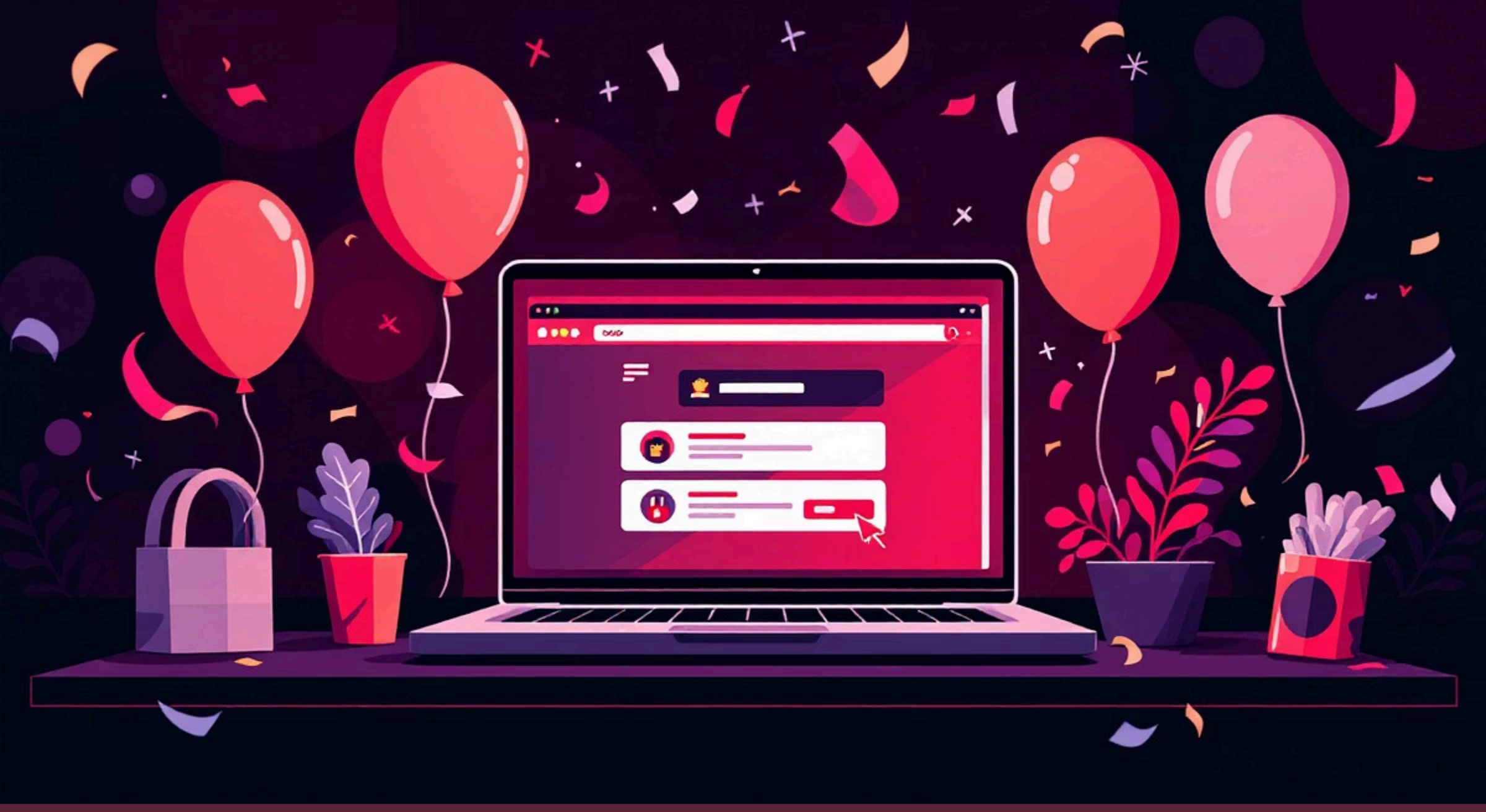
Add to cart functionality

Quantity increase/decrease

Remove from cart

Order placement

Admin panel management



Conclusion

The Online Food Ordering System was successfully developed using Django framework. The project demonstrates understanding of web development concepts, database management, and frontend integration using Bootstrap.

The application is scalable and can be enhanced further by integrating online payment gateways and advanced features.