

Restaurant Website System



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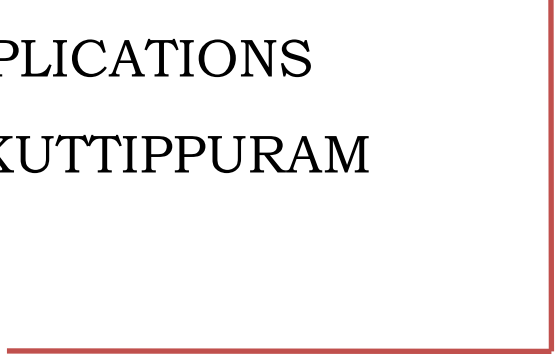


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RESTAURANT WEBSITE SYSTEM

- A web-based platform designed to modernize restaurant services.
- Provides features like online food ordering, table reservations, and menu browsing.
- Includes customer login, feedback system, and daily specials display.
- Helps restaurants showcase dishes, ambiance, and services to attract customers.
- Enhances customer convenience and reduces errors in booking and ordering.

OBJECTIVES

- To enhance customer convenience by reducing reliance on manual methods like phone calls and walk-ins.
- To provide a centralized digital platform that allows customers to browse menus, order food online, and book tables easily.
- To improve operational efficiency for restaurants by digitalizing bookings, orders, and customer feedback.
- To showcase the restaurant's offerings (food, ambiance, specials) through an attractive and structured online interface.
- To build trust and engagement by offering transparency, real-time updates, and a feedback mechanism.

EXISTING SYSTEM

- Customers rely on manual/phone bookings for tables
- Walk-in orders and menu browsing only at the restaurant
- No proper system for today's specials or signature dishes
- High chance of errors in taking orders/reservations
- Time-consuming process for both staff and customers
- No digital feedback/review system from customers
- Records maintained manually, making tracking difficult
- Limited customer engagement and low efficiency

PROPOSED SYSTEM

- Online platform for menu browsing, orders, and reservations
- Customer login/registration via email or phone
- Interactive menu with images, specials, and signature dishes
- Table reservation system with date & time slots
- Customer reviews & ratings to improve services
- Admin dashboard for menu, orders, reservations, and reviews
- Centralized database for accurate, fast, and error-free service
- Enhances customer experience and reduces manual effort

MOTIVATIONS

- Traditional restaurant operations are manual and time-consuming
- Customers face delays in ordering and table booking through phone/walk-in
- Lack of transparency in specials, pricing, and availability
- Errors in manual order/reservation handling reduce customer satisfaction
- No proper system for customer feedback and reviews
- Need for a centralized, digital platform to improve efficiency
- Enhances customer convenience and boosts restaurant's service quality

FUNCTIONALITIES

- User Registration & Login (via email/phone)
- Menu Browsing with categories, images, specials, and signature dishes
- Online Ordering with cart, checkout, and order tracking
- Table Reservation with date & time selection
- Customer Feedback & Reviews submission
- Admin Dashboard for menu, orders, reservations, and reviews
- Reports & Analytics for better decision-making
- Centralized Database for secure and reliable operations

MODULE DESCRIPTION

1. User Module

- User Registration/Login: Customers can create accounts or log in using email/phone.
- Profile Management: Customers can update personal details and preferences.
- Menu Browsing & Search: View food categories, specials, images, and search items.
- Order & Reservation: Place food orders, add items to cart, and book tables.
- Notification System: Receive updates on order status, booking confirmation, or cancellations.
- Transaction History: View past orders, payments, and reservation details.
- Feedback & Rating: Customers can rate dishes and share reviews.

MODULE DESCRIPTION

2. Admin Module

- Admin Login: Secure access for restaurant management.
- Menu Management: Add, update, or delete food items, specials, and categories
- Order Management: View, track, and update order status.
- Reservation Management: Approve, reject, or update table bookings.
- Customer Feedback View: Read customer reviews and ratings to improve service.
- Reports & Analytics: Generate reports on sales, bookings, and feedback.

DEVELOPING ENVIRONMENT

- Operating System: Windows / Linux
- Front-End: HTML, CSS, JavaScript
- Back-End: PHP (Laravel) / Python (Django)
- Database: MySQL / Firebase
- Framework: Bootstrap / Laravel / Django
- IDE / Code Editor: Visual Studio Code, Sublime Text
- Web Server: XAMPP / Apache / Firebase Hosting
- Version Control: Git / GitHub for collaboration

SPRINT BACKLOG

Backlog tem	Status And Completion Date	Original Estimatio n in Hours	Day 1 hrs	Day 2 hrs	Day 3 hrs	Day 4 hrs	Day 5 hrs	Day 6 hrs	Day 7 hrs	Day 8 hrs	Day 9 hrs	Day 10 hrs
SPRINT 1												
Project Setup & DB Creation	20/07/2026	4	0	0	0	0	0	0	0	0	0	0
Admin Login	01/09/2025	3	1	1	1	0	0	0	0	0	0	0
Menu Managemen t	01/09/2025	6	1	1	1	1	1	1	0	0	0	0
Reservation Managemen t	01/09/2025	5	1	1	1	1	1	0	0	0	0	0

SPRINT BACKLOG

Backlog tem	Status And Completion Date	Original Estimatio n in Hours	Day 1 hrs	Day 2 hrs	Day 3 hrs	Day 4 hrs	Day 5 hrs	Day 6 hrs	Day 7 hrs	Day 8 hrs	Day 9 hrs	Day 10 hrs
SPRINT 2												
User Registratio n/Login	15/09/2025	6	1	1	1	1	1	1	0	0	0	0
Profile Manageme nt	15/09/2025	5	1	1	1	1	1	0	0	0	0	0
Menu Browsing & Display	15/09/2025	6	1	1	1	1	1	1	0	0	0	0
Specials & Signature Dishes	15/09/2025	6	1	1	1	1	1	1	0	0	0	0

SPRINT BACKLOG

Backlog tem	Status And Completion Date	Original Estimatio n in Hours	Day 1 hrs	Day 2 hrs	Day 3 hrs	Day 4 hrs	Day 5 hrs	Day 6 hrs	Day 7 hrs	Day 8 hrs	Day 9 hrs	Day 10 hrs
SPRINT 2												
Search & Filter Menu Items	15/09/2025	6	1	1	1	1	1	1	0	0	0	0
Table Booking System	29/09/2025	6	1	1	1	1	1	1	0	0	0	0
Feedback Submission	29/09/2025	4	1	1	1	1	0	0	0	0	0	0

PRODUCT BACKLOG

ID	Name	Priority	Estimate (Hours)	Status
1	User Registration & Login	High	6	Completed
2	Profile Management	High	5	Completed
3	Menu Browsing & Display	High	8	Completed
4	Specials & Signature Dishes	High	6	Completed
5	Search & Filter Menu Items	High	6	Completed

PRODUCT BACKLOG

ID	NAME	PRIORITY <high/medium/low>	ESTIMATE (Hours)	STATUS <Planned/In progress/Completed>
6	Cart and Order Placement	High	7	Completed
7	Table Booking System	High	6	Completed
8	Feedback Submission	Medium	4	Completed
9	Admin Login	High	3	Completed

PRODUCT BACKLOG

ID	NAME	PRIORITY <high/medium/low>	ESTIMATE (Hours)	STATUS <Planned/In progress/Completed>
10	Menu Management (Admin)	High	6	Completed
11	Reservation Management (Admin)	High	5	Completed
12	Report Generation (Admin)	Medium	5	Completed

USER STORY

User Story ID	As a type of User	I want to	So that I can
1	ADMIN	Login	Access the system securely with correct username and password
2	ADMIN	Manage Menu	Add, edit, or delete food items, categories, and prices
3	ADMIN	Manage Reservations	Approve, reject, or update table bookings
4	ADMIN	Generate Reports	View sales, reservations, and customer feedback for decision making

USER STORY

User Story ID	As a type of User	I want to	So that I can
5	CUSTOMER	Register & Login	Create an account and access personalized services
6	CUSTOMER	Book a Table	Reserve seats for a specific date and time
7	CUSTOMER	Browse Menu	View menu categories, prices, images, and specials
8	CUSTOMER	Place Orders	Order food online for delivery or dine-in
9	CUSTOMER	Give feedback	Share my experience and help improve the restaurant's service

PROJECT PLAN

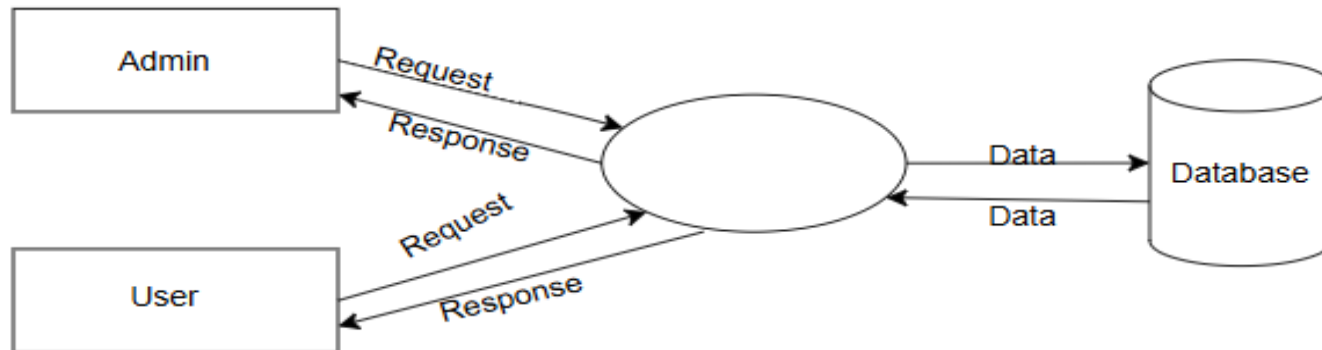
User Story ID	Task Name	Start Date	End Date	Days	status
1	Sprint 1	01/09/25	14/09/25	14	Complete
2	Sprint 1	01/09/25	14/09/25	14	Complete
3	Sprint 1	01/09/25	14/09/25	14	Complete
4	Sprint 1	15/09/25	28/09/25	14	Complete

PROJECT PLAN

User Story ID	Task Name	Start Date	End Date	Days	status
5	Sprint 1	15/09/25	28/09/25	14	Complete
6	Sprint 2	15/09/25	28/09/25	14	Complete
7	Sprint 2	15/09/25	28/09/25	14	Complete
8	Sprint 2	29/09/25	12/10/25	14	Complete
9	Sprint 2	29/09/25	12/10/25	14	Complete

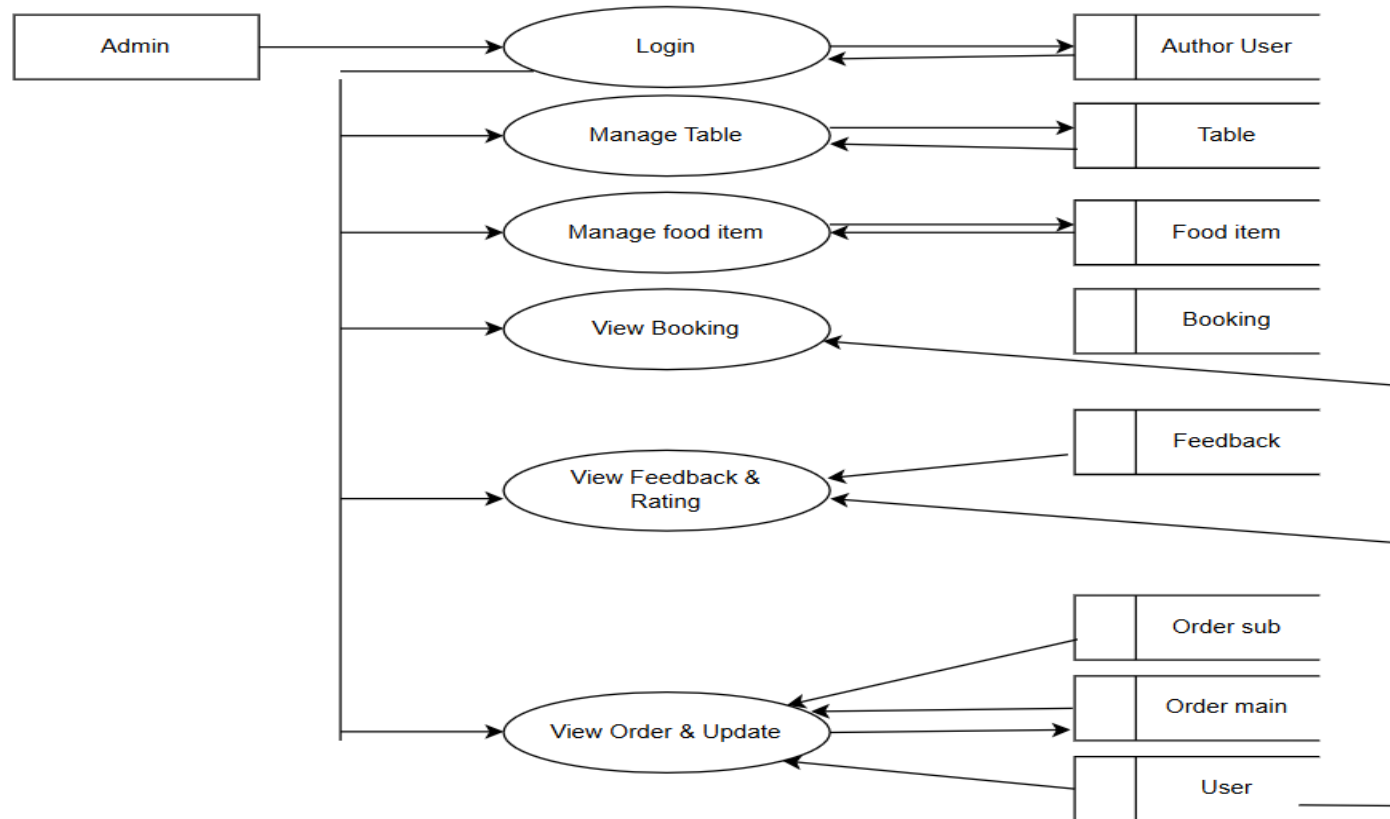
DATA FLOW DIAGRAM

- LEVEL 0



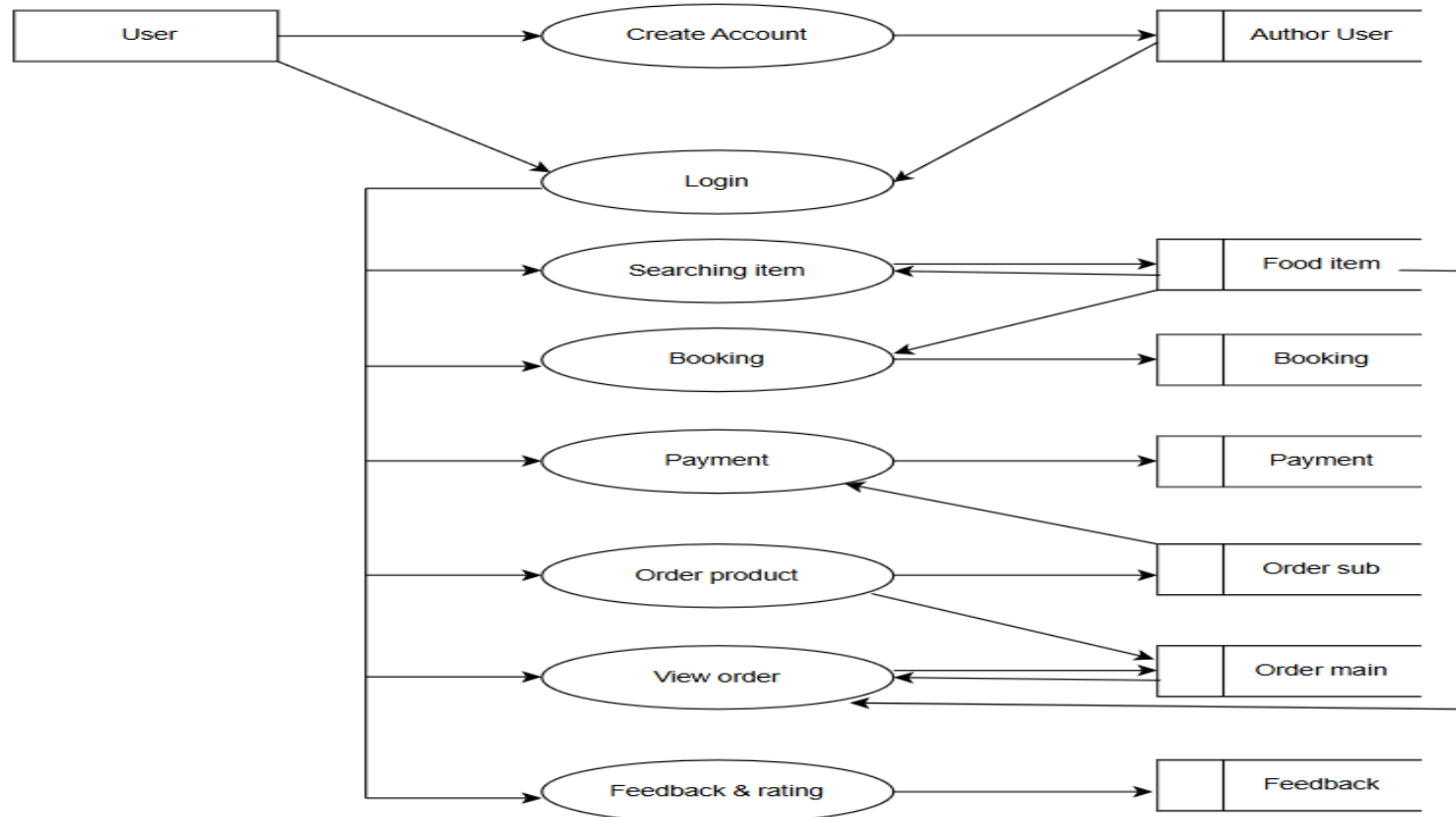
DATA FLOW DIAGRAM

- Level 1

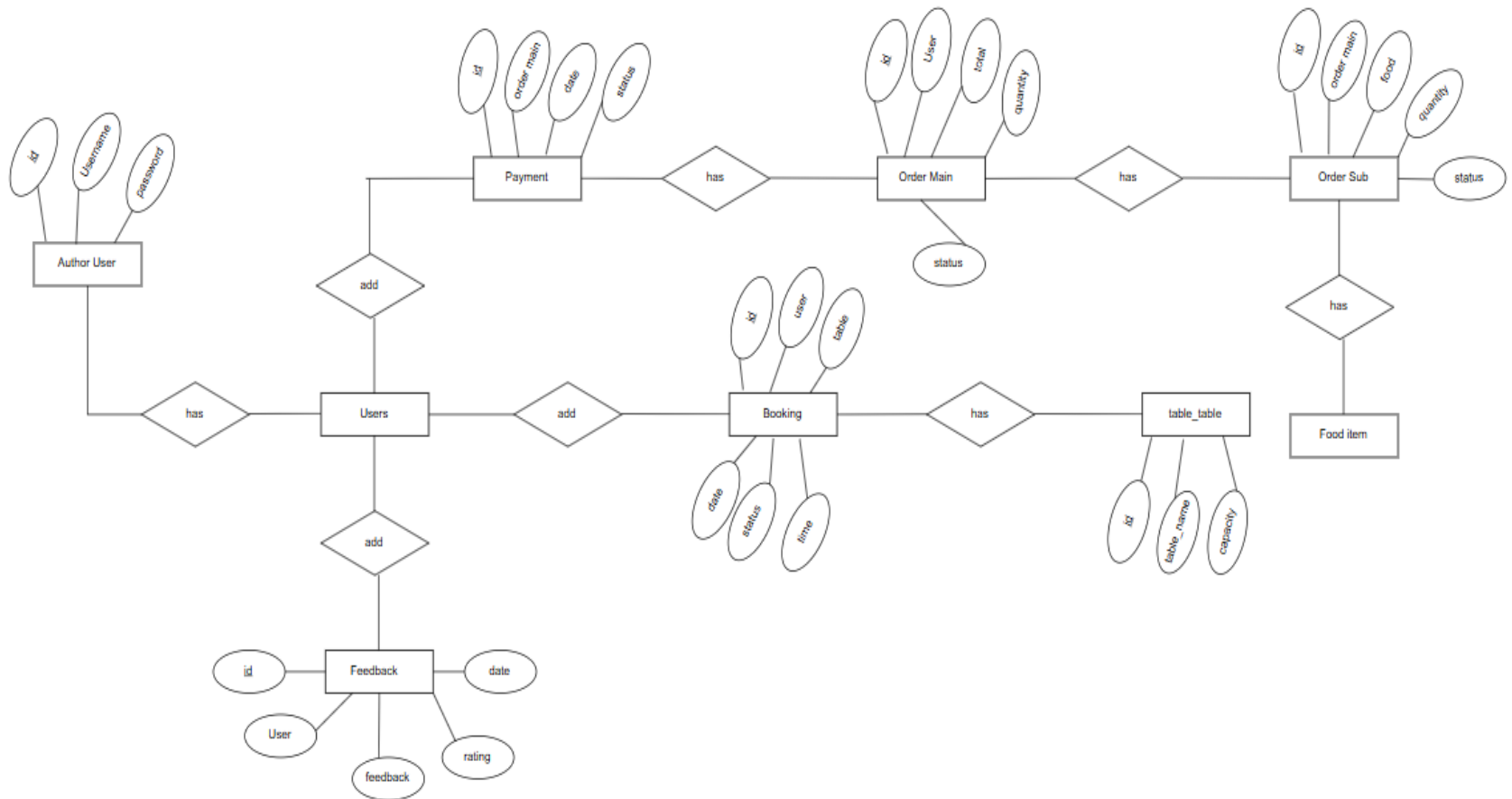


DATA FLOW DIAGRAM

- Level 2



ER DIAGRAM



INTERFACE



Welcome back! Reserve your table in seconds.

Sign in to view bookings, manage events and quickly book tables for your customers.

RestoBook

Sign in to your account

Username

admin

Password

.....



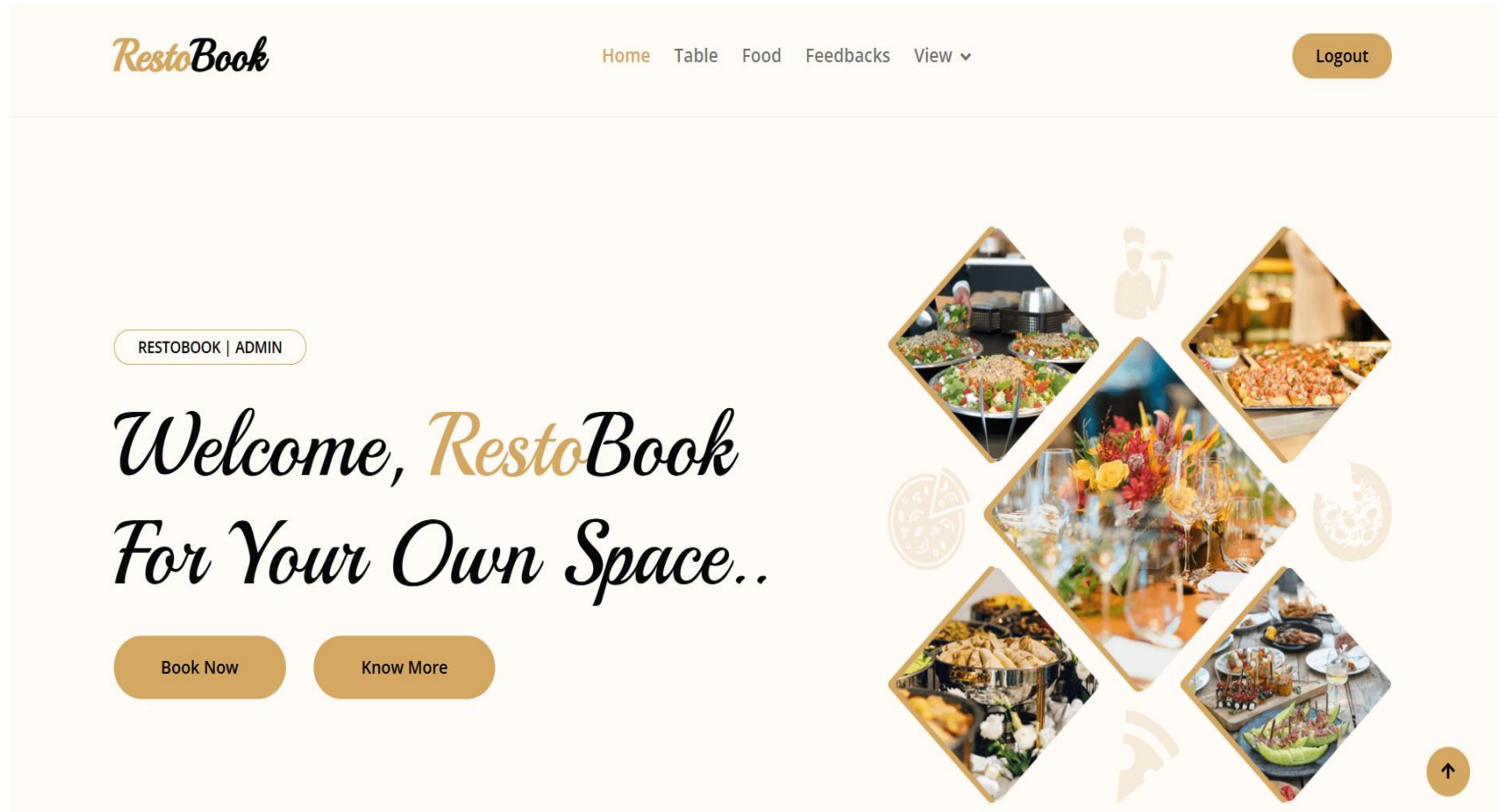
☐ Remember me

 Signing in...

Don't have an account? [Create one](#)

By signing in, you agree to our [Terms](#) & [Privacy Policy](#).

INTERFACE



INTERFACE

Tables



vip table

Table #1



Capacity: 10

 Edit

 Delete



majlis

Table #4



Capacity: 20

 Edit

 Delete

SAMPLE CODE

```
def login_page(request):
    return render(request, 'login.html')

def login_post(request):
    username = request.POST['username']
    password = request.POST['password']
    # print(request.POST)
    user = authenticate(request, username=username, password=password)
    if user is not None:
        # print(user, 'kkkkkkkkk')
        if user.groups.filter(name='admin').exists():
            # print('lllll')
            login(request, user)
            messages.success(request, 'logged Successfully..!!!')
            return redirect('/myapp/admin_home/')
        elif user.groups.filter(name='user').exists():
            login(request, user)
            messages.success(request, 'logged Successfully..!!!')

            return redirect('/myapp/user_home/')
        else:
            return redirect('/myapp/')
    else:
        messages.warning(request, 'invalid username or password')
        return redirect('/myapp/')
```

SAMPLE CODE

```
@login_required(login_url='/myapp/')

def admin_home(request):
    return render(request, 'admins/index.html')

def admin_view_feedbacks(request):
    a=Feedback_table.objects.all()
    return render(request, 'admins/admin_view_feedback.html',{'data':a})
```

SAMPLE CODE

```
@login_required(login_url='/myapp/')

def add_table_post(request):
    tablename=request.POST['tablename']
    capacity=request.POST['capacity']

    obj=Table_table()
    obj.tablename=tablename
    obj.capacity=capacity
    obj.save()
    return redirect('/myapp/admin_view_table')

@login_required(login_url='/myapp/')

def admin_view_table(request):
    a=Table_table.objects.all()
    return render(request, 'admins/view_table.html', {'data':a})

def delete_table(request,id):
    a=Table_table.objects.get(id=id)
    a.delete()
    return redirect('/myapp/admin_view_table/')
```


CONCLUSION

The Restaurant Website System was developed to provide a digital solution for managing restaurant operations, focusing on table reservations, menu browsing, order placement, and customer feedback. The system consists of two main modules—User and Admin—that work together to streamline interactions between customers and restaurant staff. Key features such as dynamic menu management, real-time order tracking, and reservation scheduling were successfully implemented, resulting in a user-friendly and efficient platform.

The project achieved its core objectives by reducing manual errors, improving service coordination, and enhancing the overall dining experience. It demonstrates the potential of web-based systems in transforming traditional restaurant workflows into structured, automated processes. However, certain advanced functionalities like payment gateway integration and multi-role access control could not be implemented due to time limitations and resource constraints. These features can be added in future versions by expanding the system architecture and integrating third-party APIs.

In conclusion, the developed system lays a strong foundation for scalable restaurant management and offers valuable scope for future enhancements. It reflects the importance of combining user-centric design with practical functionality to meet real-world needs.

THANK YOU