

PROPOSAL FOR MOBILE APP

Campus Food Ordering System

Consumer Android App + Kitchen Web Portal (Admin Included)

1. INTRODUCTION

This proposal outlines the design and development of a **campus-exclusive food ordering system** for University.

The system enables campus users to order food through a mobile application while allowing kitchen staff to manage orders and operations through a centralized web portal.

The solution is built for **speed, reliability, and operational control**, without dependency on third-party food aggregators.

2. PROJECT OBJECTIVE

The primary objective is to implement a **simple, scalable, and cost-effective food ordering platform** for use within the campus.

Key objectives:

- Enable easy food ordering for campus users
- Provide real-time order visibility to kitchen staff
- Support self-pickup and staff-handled delivery
- Maintain full administrative control with minimal overhead

3. SYSTEM OVERVIEW

The system consists of **two applications supported by a single backend**:

1. **Consumer Android and iOS Mobile Application**
2. **Kitchen Web Portal (serves as both Kitchen Operations and Admin Panel)**

The solution is limited to **one restaurant**, **campus-only usage**, and **staff-managed delivery**.

4. SCOPE OF WORK

4.1 Consumer Android Application

Features

- Login via mobile number with OTP*** (To Discuss On This)
- Menu browsing with categories
- Time-based menu availability (breakfast/lunch/dinner)
- Cart and checkout functionality
- Pickup or delivery selection
- Online payment (UPI) and cash on pickup
- Live order status tracking
- Order history
- Push notifications for order updates

4.2 Kitchen Web Portal (Admin + Operations)

Order Management

- Real-time incoming orders dashboard
- Order queue with timestamps
- Status updates:
 - Order Received
 - Preparing
 - Ready
 - Out for Delivery
 - Completed

Delivery Handling

- Manual delivery assignment to staff
- Status-based delivery tracking (no GPS)

Menu Management

- Add, edit, and remove menu items
- Price updates
- Enable/disable items instantly

- Time-slot based availability

Administrative Controls

- Staff login management
- Order limit configuration
- Enable/disable delivery
- Enable/disable payment modes

Reports

- Daily sales summary
- Order volume and revenue
- Basic item-wise performance

4.3 Backend System

Core Components

- OTP-based authentication
- Order processing engine
- Payment gateway integration (UPI)
- Push notification service
- Role-based access control
- Centralized database

The backend is designed for reliability and future scalability.

5. DELIVERABLES

Application Deliverables

- Android and iOS Consumer App (APK and IPA)
- Kitchen Web Portal (Admin + Operations)

Technical Deliverables

- Backend APIs
- Database schema
- Payment integration
- Push notification setup

Deployment Deliverables

- Production deployment of backend
- Android and Iphone app deployment support
- Basic technical documentation

6. DEPLOYMENT, HOSTING & MAINTENANCE

Android App Deployment

- Deployment of the Android app to the client's Google Play account is **included**.
- App signing and store configuration will be done using client-provided credentials.

iOS Deployment

- iOS app development and deployment are **not included** in this proposal.
- Any iOS deployment will be treated as **additional scope and cost**.
- Apple Developer account and App Store hosting costs are borne by the client.

Hosting

- Hosting of Android and iOS apps is **not included**.
- Server infrastructure, cloud hosting, SMS charges, and payment gateway fees are excluded.
- Hosting can be arranged on client-owned or preferred cloud infrastructure.

Maintenance

- Maintenance is **not included** in the project cost.
- Monthly maintenance covers bug fixes, minor updates, and app stability support.

Maintenance Charges:

₹15,000 – ₹25,000 per month (billed monthly in advance)

7. PROJECT TIMELINE

Estimated Duration: 6–8 weeks

- Requirement finalization & design
- App and backend development
- Kitchen portal development
- Testing and deployment

8. COMMERCIAL PROPOSAL

Project Cost (Fixed)

Total Cost: ₹90,000

This includes:

- Consumer Android and iPhone app
- Kitchen web portal (Admin included)
- Backend system
- Payment and notification integration
- Android and iPhone deployment support

9. PAYMENT TERMS

- 60% advance at project kickoff
- 40% upon final delivery and acceptance

10. OUT OF SCOPE

- Separate admin application
- Multiple restaurants
- Live GPS delivery tracking
- Campus wallet integration
- External (non-campus) users
- Marketing or promotional modules

11. ACCEPTANCE CRITERIA

The project will be considered complete when:

- Orders can be placed successfully from the app
- Kitchen portal receives and processes orders in real time
- Payments and notifications function correctly
- System is deployed and operational.

12. CONCLUSION

This proposal delivers a **focused, operationally efficient campus food ordering system** with a **clearly defined scope, fixed cost, and predictable delivery timeline**.

It is designed to meet immediate requirements while remaining adaptable for future expansion if required.