

# **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.