**Project Report: Full-Stack Hygiene (Home-Made) Food Delivery Online**

## **1. Introduction**

In recent years, the demand for hygienic and home-made food has increased significantly. This project aims to develop a **Full-Stack Hygiene Food Delivery Platform** that connects home chefs with customers looking for high-quality, freshly prepared meals. The platform will consist of both a **mobile application** and a **website**, providing seamless food ordering and delivery services.

## **2. Objectives**

* To create an online marketplace for home-cooked food.
* To ensure hygienic and high-quality food delivery.
* To provide a user-friendly interface for customers and home chefs.
* To facilitate secure online payments.
* To implement an efficient delivery management system.
* To offer customer reviews and rating systems for quality assurance.

## **3. Features to be Built**

### **For Customers:**

* **User Registration & Authentication:** Secure signup and login process.
* **Browse & Search:** Explore available food options based on location, cuisine, and chef ratings.
* **Order Placement:** Add food items to the cart and place an order.
* **Real-Time Order Tracking:** Live tracking of the food preparation and delivery status.
* **Payment Gateway Integration:** Secure online payments via UPI, card, and wallets.
* **Reviews & Ratings:** Customers can provide feedback and rate meals and chefs.
* **Order History:** View past orders and reorder with ease.

### **For Home Chefs:**

* **Chef Registration & Profile Setup:** Register as a seller and manage the profile.
* **Menu Management:** Add, update, and remove food items.
* **Order Management:** Accept, prepare, and manage incoming orders.
* **Earnings Dashboard:** Track sales, earnings, and payouts.
* **Customer Interaction:** Respond to queries and feedback.

### **For Delivery Personnel:**

* **Delivery Agent Registration:** Sign up as a delivery partner.
* **Order Pickup & Delivery Management:** Get assigned orders and update delivery status.
* **Earnings and Performance Tracking:** View completed deliveries and earnings.

### **For Admin Panel:**

* **User Management:** Monitor and manage users, home chefs, and delivery agents.
* **Order Management:** Track and oversee the order flow.
* **Payment Settlements:** Handle transactions between customers, chefs, and delivery agents.
* **Analytics & Reports:** Generate business insights, revenue reports, and customer trends.

## **4. Technology Stack**

### **Frontend:**

* **Website:** React.js / Next.js
* **Mobile App:** React Native / Flutter

### **Backend:**

* **Node.js** with **Express.js**
* **Python** (Optional, for AI-based recommendations)

### **Database:**

* **MongoDB** / **PostgreSQL**

### **Authentication & Security:**

* Firebase / JWT Authentication
* Secure payment integration (Razorpay, Stripe, PayPal, etc.)

### **Cloud Services & Hosting:**

* AWS / Firebase / DigitalOcean
* Cloud Storage for Images & Documents

## **5. Development Plan & Phases**

1. **Requirement Analysis & Design** (1-2 weeks)
2. **Frontend & Backend Development**
3. **Database Integration & Security Implementation**
4. **Testing & Debugging**
5. **Deployment & Maintenance**

## **6. Conclusion**

This project aims to bridge the gap between home chefs and food lovers by providing a reliable and efficient platform. The app and website will be designed with a strong focus on user experience, security, and efficiency, ensuring a robust and scalable system for home-made food delivery.