

## **INTERN ASSIGNMENT DOCUMENT**

### **Food Delivery System – Core Java (OOP Focused)**

#### **1. Purpose of This Assignment**

This assignment helps you understand and apply Object-Oriented Programming (OOP) concepts using Core Java only.

#### **2. Technical Constraints**

- Language: Java
- Use Core Java and Collections
- No Spring Boot, No Database, No Frameworks

#### **3. Problem Statement**

Design a Food Delivery System similar to Zomato/Swiggy using Object-Oriented Programming.

#### **4. Functional Requirements**

##### **4.1 User Management**

Users: Customer, Delivery Partner

Common fields: id, name, phone

##### **4.2 Restaurant & Menu**

Restaurant has menu items. Menu item has name and price.

##### **4.3 Order Management**

Order status flow: CREATED → PAID → ASSIGNED → DELIVERED

##### **4.4 Payment System**

Payment methods: UPI, Card, Cash

##### **4.5 Delivery Assignment**

Assign delivery partner and update order status.

#### **5. Mandatory OOP Concepts**

Encapsulation, Inheritance, Abstraction, Polymorphism, Composition, Enum

## **6. Execution Flow**

Create user → restaurant → order → payment → delivery → completion

## **7. Submission Instructions**

Submit Java code with proper structure and clean design.

## **End of Assignment**