

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