TP Class Diagram

System Information:

An online food ordering system allows customers to browse restaurants, view menus, place orders, and make payments. Restaurants manage menus and receive orders. Delivery staff deliver orders. The system tracks orders, payments, and deliveries.

Task 1 – Identify Classes

Identify all related classes needed for the system.

Task 2 – Define Attributes and Methods

For each main class, define attributes and at least TWO methods. Use UML visibility symbols (+, -, #).

Task 3 – Define Relationships

Draw relationships between classes using:

- Association
- Aggregation
- Composition
- Inheritance (optional)

Include Multiplicity:

Exactly one - 1

- Zero or one - 0..1
- Many - 0..* or *
- One or more - 1..*
- Exact Number - e.g. 3..4 or 6
- Or a complex relationship - e.g. 0..1, 3..4, 6.* would mean any number of objects other than 2 or 5

Task 4 – Draw Class Diagram

Draw one complete UML Class Diagram that represents the system.