

"Food Delivery Application": `
Use Case Diagram - Food Delivery Application

@startuml
title Use Case Diagram for Food Delivery Application

' Define actors

actor "Customer" as Customer
actor "Restaurant" as Restaurant
actor "Delivery Agent" as Agent
actor "Admin" as Admin

' System boundary

rectangle "Food Delivery Application" as FDA {
 usecase "Register / Login" as UC1
 usecase "Browse Restaurants & Menus" as UC2
 usecase "Place Order" as UC3
 usecase "Track Order" as UC4
 usecase "Make Payment" as UC5
 usecase "Provide Rating / Feedback" as UC6
 usecase "Manage Menu Items" as UC7
 usecase "Accept / Reject Order" as UC8
 usecase "Deliver Order" as UC9
 usecase "Manage Users & Reports" as UC10
}

' Relationships

Customer --> UC1
Customer --> UC2
Customer --> UC3
Customer --> UC4
Customer --> UC5
Customer --> UC6

Restaurant --> UC7
Restaurant --> UC8
UC3 --> UC5 : <<include>>
UC3 --> UC4 : <<extend>>

Agent --> UC9
UC8 --> UC9 : <<include>>

Admin --> UC10

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Class Diagram – Food Delivery Application

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title Class Diagram for Food Delivery Application

' Define main classes

class User{

+userID: int

+name: string

+email: string

+password: string

+login()

+logout()

}

class Customer {

+browseRestaurants()

+placeOrder()

+makePayment()

+trackOrder()

+giveFeedback()

}

class Restaurant {

+restaurantID: int

+restaurantName: string

+menuItems: List<MenuItem>

+acceptOrder()

+updateMenu()

}

class MenuItem {

+itemID: int

+name: string

+price: float

+availability: boolean

}

class Order {

+orderID: int

+orderDate: date

+status: string

+calculateTotal()

}

class Payment {

+paymentID: int

+amount: float

```
+paymentType: string
+processPayment()
}
```

```
class DeliveryAgent {
  +agentID: int
  +name: string
  +phone: string
  +updateDeliveryStatus()
}
```

```
class Admin {
  +generateReports()
  +manageUsers()
  +manageRestaurants()
}
```

' Relationships

User <|-- Customer

User <|-- Restaurant

User <|-- DeliveryAgent

User <|-- Admin

Customer "1" -- "many" Order : places >

Restaurant "1" -- "many" Order : receives >

Order "1" -- "1" Payment : has >

Order "1" -- "many" MenuItem : contains >

DeliveryAgent "1" -- "many" Order : delivers >

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