# Exercise 05 — Types of Decomposition

## 1. Decomposition of Couriers' Actions

Goal: To break down the couriers' actions into distinct tasks for better workflow management and clarity.

Type: Functional decomposition, as it focuses on identifying the specific actions or tasks performed by couriers.

Number of Levels: 2 levels.  
- Level 0: Couriers' actions.  
- Level 1: Tasks performed by couriers:  
 1. View assigned orders.  
 2. Accept and book an order.  
 3. Pick up the order at the collection point.  
 4. Deliver the order to the destination.  
 5. Update order status in the system.

## 2. Object Decomposition of Actors (Roles)

Goal: To organize and categorize the roles involved in task 2 for better understanding and role allocation.

Type: Object decomposition, as it categorizes entities based on their functions or responsibilities.

Number of Levels: 2 levels.  
- Level 0: Actors in the system.  
- Level 1: Roles:  
 1. Couriers (responsible for delivery).  
 2. Dispatcher (assigns and monitors couriers).  
 3. Administrator (manages registrations and permissions).  
 4. Customers (places orders).  
 5. Accounting System (calculates payments and fees).

## 3. Breakdown Criteria

Breakdown Criteria:  
- For Couriers' Actions: Functional breakdown based on the sequence of tasks performed.  
- For Actors: Categorization based on roles and responsibilities within the system.