# From Action to Outcome: Training on Input-Process-Output (IPO) in Real-Life Systems

Here are **25 real-life use cases** from a variety of systems, **ordered from easy to advanced**, to practice identifying inputs, outputs, and process tasks, for each use case you are asked to identify the following:

- Inputs "for each input" (Type, Count, Operation method, validation, conversion)
- Outputs "for each output" (**Type, Count**)
- Process (Single task or multi tasks, "for each task" the function input and output)

# ♦ Easy Level (1–8): Basic, straightforward use cases

- 1. User checks account balance at ATM
  - System: Banking
- 2. User withdraws money from ATM
  - System: Banking
- 3. User logs into email account
  - System: Email/Authentication
- 4. User uploads a photo to a social media profile
  - o System: Social Media
- 5. User plays a music file using a music player
  - System: Media Player
- 6. User sets a reminder on a smartphone
  - System: Mobile App
- 7. User books a movie ticket online
  - System: Booking System
- 8. User searches for a recipe on a cooking app
  - System: Search Engine/App

# ♦ Medium Level (9–17): Multi-step interactions

- 9. User uploads multiple images to generate a slideshow video
  - System: Multimedia App
- 10. User places an online food delivery order
- System: E-commerce / Delivery

### 11. User schedules an appointment with a doctor through a health portal

• System: Health Management System

## 12. User creates an event and invites friends on a calendar app

• System: Scheduling App

### 13. User applies for a loan via online banking

System: Banking / Loan Management

### 14. User registers and enrolls in a university course

• System: University Portal

### 15. User customizes and purchases a T-shirt from an online store

• System: E-commerce with customization

### 16. User installs software using a package manager

• System: OS/Software Installation

### 17. User reports a bug on a project management platform

• System: Issue/Bug Tracker

# ♦ Advanced Level (18–25): Involve data processing, conditional logic, or multiple systems

# 18. User uploads a resume and receives job recommendations

• System: Recruitment System

### 19. User submits tax forms online and gets real-time calculations

• System: E-Government / Tax Filing

#### 20. User uses a smart thermostat to schedule home temperature

System: IoT / Smart Home

### 21. User trains a custom AI model on uploaded data

System: ML Platform

### 22. User tracks fitness data and gets personalized workout suggestions

System: Health/Fitness App

### 23. User reserves a hotel room, flights, and car rental in one session

System: Travel Booking System

### 24. User uses a banking app to transfer funds with currency conversion

• System: FinTech / Multi-currency

### 25. User completes a full patient intake process online before a hospital visit

System: Hospital Information System