

## Assignment 2

### **Characteristics of Microservices Architecture:**

- The application is broken into small, independent services.
- Each service focuses on a single task and can be developed, deployed, and scaled separately.
- Services communicate through lightweight protocols like HTTP or messaging queues.
- Teams can use different tech stacks for different services.
- Easier to test and update individual parts without affecting the whole system.

### **Smart Endpoints and Dumb Pipes:**

In microservices, **smart endpoints** handle the logic — they know how to process and respond to requests. **Dumb pipes** just pass messages between services without any logic. This keeps the system clean and avoids complex communication handling.