Example 1: Online Bookstore Application

Step 1: Identify System Operations

- Search Books (query)
- Add Book to Cart (command)
- Remove Book from Cart (command)
- Place Order (command)
- Process Payment (command)
- Track Order Status (query)
- Write a Review (command)
- Get Recommendations (query)
- Manage User Profile (command/query)

Step 2: Identify Services by Decomposition

- **Decompose by Business Capability:**
    - Catalog Service (book search, recommendations)
    - Cart Service (add/remove books)
    - Order Service (place orders, track orders)
    - Payment Service (process payments)
    - Review Service (write reviews)
    - User Service (manage user profile)
- Or **Decompose by Sub-domain:**
    - Product Management (Catalog, Reviews)
    - Sales Processing (Cart, Order, Payment)
    - Customer Management (User Profile)

Step 3: Map System Operations to Services

System Operation	Service
Search Books	Catalog Service
Add Book to Cart	Cart Service
Remove Book from Cart	Cart Service
Place Order	Order Service
Process Payment	Payment Service
Track Order Status	Order Service
Write a Review	Review Service
Get Recommendations	Catalog Service
Manage User Profile	User Service

Example 2: Healthcare Appointment System

Step 1: Identify System Operations

- Search Doctors (query)
- Book Appointment (command)
- Cancel Appointment (command)
- Update Patient Records (command)
- Process Billing (command)
- Send Appointment Reminders (command)
- Get Appointment History (query)
- Manage User Account (command/query)

Step 2: Identify Services by Decomposition

- **Decompose by Business Capability:**
    - Doctor Service (search doctors)
    - Appointment Service (book/cancel appointments, reminders)
    - Patient Service (patient records)
    - Billing Service (process billing)
    - User Account Service (account management)
- Or **Decompose by Sub-domain:**
    - Scheduling (Appointment)
    - Medical Records (Patient)
    - Financial (Billing)
    - User Management (Accounts)

Step 3: Map System Operations to Services

System Operation	Service
Search Doctors	Doctor Service
Book Appointment	Appointment Service
Cancel Appointment	Appointment Service
Update Patient Records	Patient Service
Process Billing	Billing Service
Send Appointment Reminder	Appointment Service
Get Appointment History	Appointment Service
Manage User Account	User Account Service