

Practical: Data Flow Diagram (DFD) & Control Flow Diagram (CFD)

Aim: Draw DFD and CFD for the Pharmacy Management System and document theory, case study, and simulation.

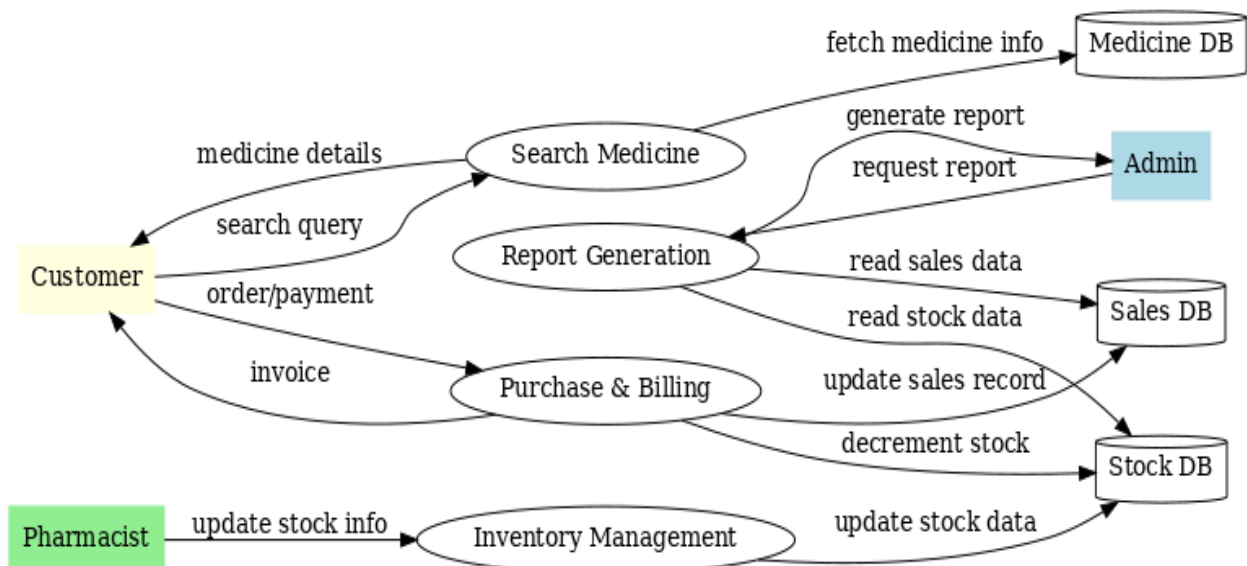
Introduction: DFD models data movement; CFD models control sequence and decisions.

Objectives: Identify external entities and functionalities; map data flows; represent flows using DFD; draw CFD.

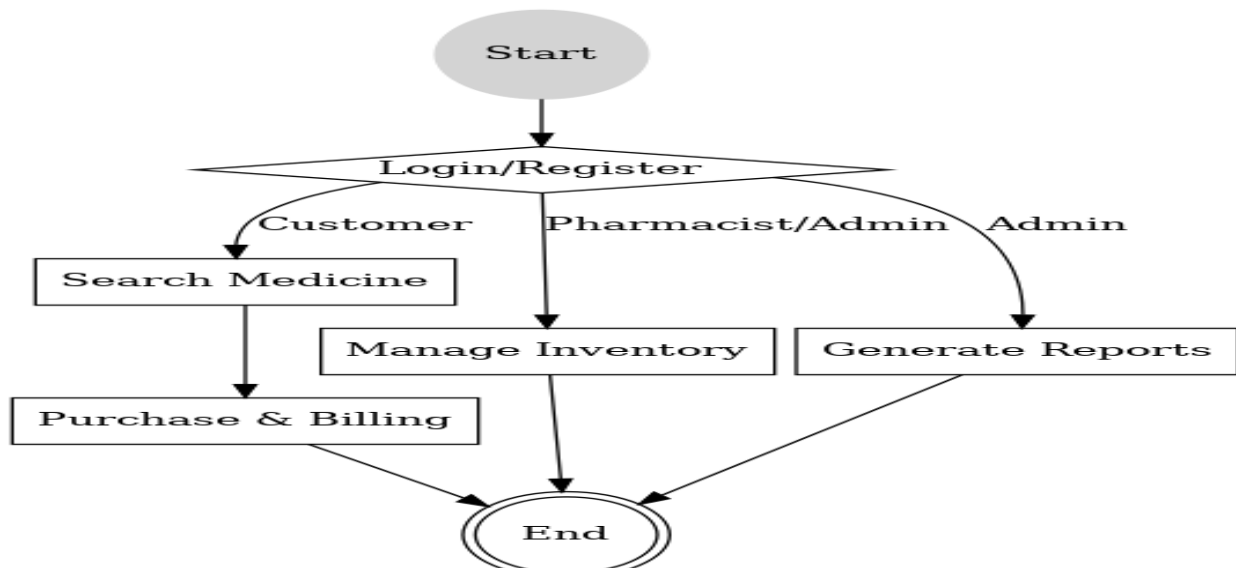
DFD Notations: External entities (boxes), Processes (ovals), Data Stores (cylinders), Data Flows (arrows).

Case Study: Pharmacy Management System - Customers search and buy medicines; Pharmacists manage inventory; Admin generates reports.

Data Flow Diagram (DFD)



Control Flow Diagram (CFD)



Simulation: Trace flows for purchase: search -> fetch info -> place order -> update sales & stock -> invoice.
Control flow: login -> search -> purchase -> end.

References: Pressman, UML docs, SE Virtual Labs.