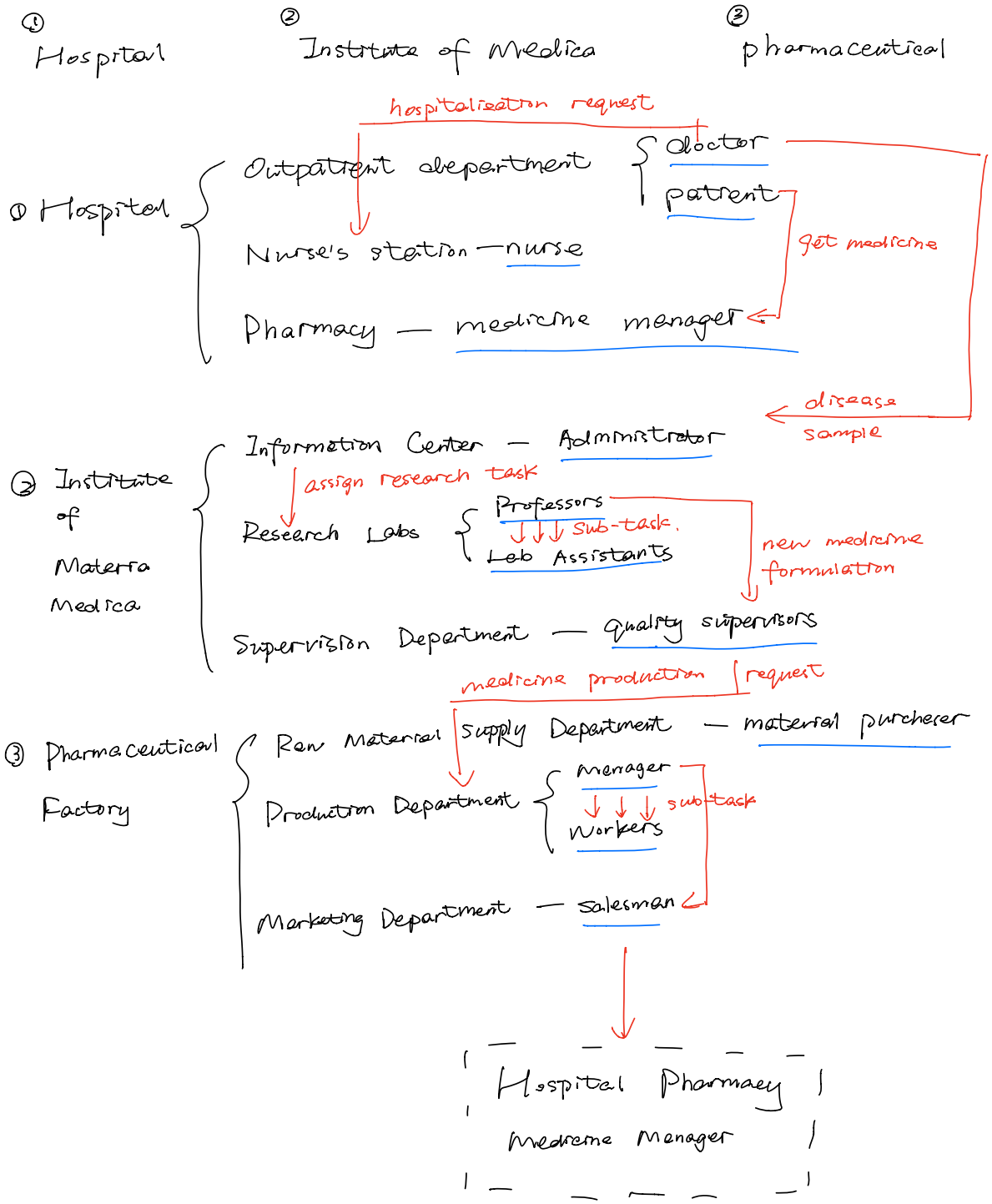
① Hospital
② Institute of Medica
③ pharmaceutical
hospitalization request
① Hospital
Outpatient department
Doctor
patient
Nurse's station — nurse
Pharmacy — medicine manager
get medicine
disease sample
② Institute of Materra Medica
Information Center — Administrator
assign research task
Research Labs
Professors
sub-task.
Lab Assistants
new medicine formulation
Supervision Department — quality supervisors
medicine production request
③ Pharmaceutical Factory
Raw Material Supply Department — material purchaser
Production Department
Manager
sub-task
Workers
Marketing Department — salesman
Hospital Pharmacy
Medicine Manager

eco-system { enterprises, organizations, roles

IT network region

Administrator ?

network. enterprise.

Factory Pattern

Singleton Pattern