

System Modeling

Sequence and Activity Diagram

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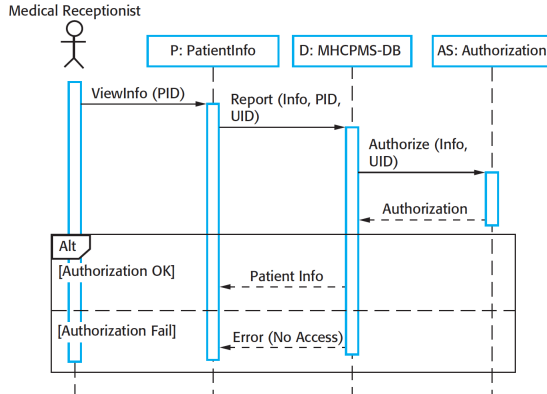


- Describe the dynamic structure of the system and show the interactions between the system objects.
- Interactions that may be documented include
 - the sequence of service requests made by objects (Sequence models)
 - the state changes that are triggered by these object interactions (state machine models)

Sequence Diagram

- Primarily used to model the interactions between the actors and the objects in a system and the interactions between the objects themselves
- Shows the sequence of interactions that take place during a particular use case or use case instance

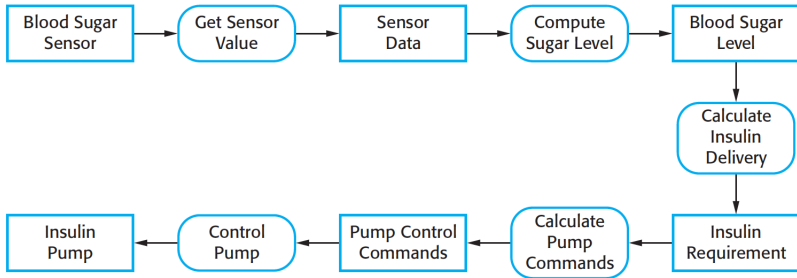
Example: Patient Information Sequence Diagram for MHC-PMS



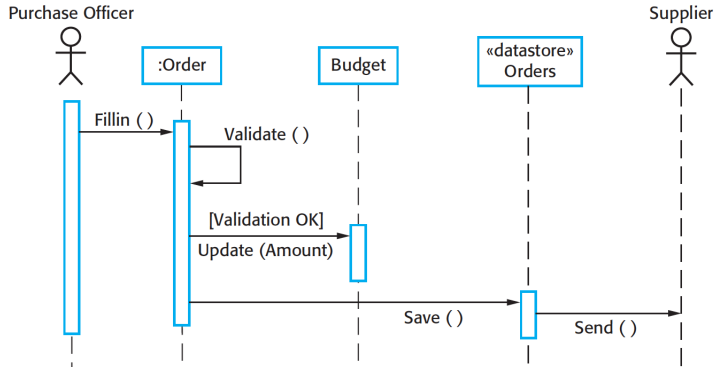
Activity Diagram

- A way of illustrating the processing steps in a system
- Track how data associated with a particular process moves through the system Data-flow diagrams are simple and intuitive

Example: Activity model of the Insulin Pump's Operation



Example: Sequence model of an Order Processing



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