

Team Name: Paradigm
Project Name: Medisafe

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Program used for nurses to track patient needs while admitted. Including: Appointments, drug schedule, feeding schedule, patient location, previous medical history, and potential surgeries

Context Diagram

System

- Nurses
- Doctors
- Pharmacists
- Immediate Family of patient

Level 0

Authentication 1.0

Processes

- Employee login
- Receiving Credentials
- Verifying Credentials
- Granting Access

Data

- Hospital Credentials Database)

Drug administration 2.0 (Drug, Dosage, time interval, duration of prescription)

Processes

- Add new prescription 2.1 (send: new prescription data, drug, dosage receive: Confirmation of addition)
- Remove prescription 2.2 (send: prescription to be removed receive: confirmation)
- Edit dosage 2.3 (send prescription to be changed and new dosage value receive: confirmation)

Data

- Hospital Pharmacy records
- Pharmacy stock records
- Criminal history database

In/out patient Log 3.0 (in/out time, location, reason)

Processes

- New patient entry 3.1 (stores patient information to current admitted patients, and stores info in hospital patient records)
- Remove patient entry 3.2 (removes patient information from only admitted patients)
- Check patient location 3.3 (returns patients current location hospital unit, room number)
- Change patient location 3.4 (edits all data except name)

Data

- Hospital patient admission database
- Appointment scheduling data attached to 4.0
- Individual records for each unit of hospital

Appointment Scheduling 4.0 (time and location)

Processes

- Schedule new appointment 4.1 (sends: time slot and duration for appointment received: if time slot is available for scheduling)
- Remove appointment 4.2 (sends, time slot for appointment to be removed: receives: confirmation of data removal)
- Change appointment details 4.3 (Sends: information change receives: confirmation of calendar change)

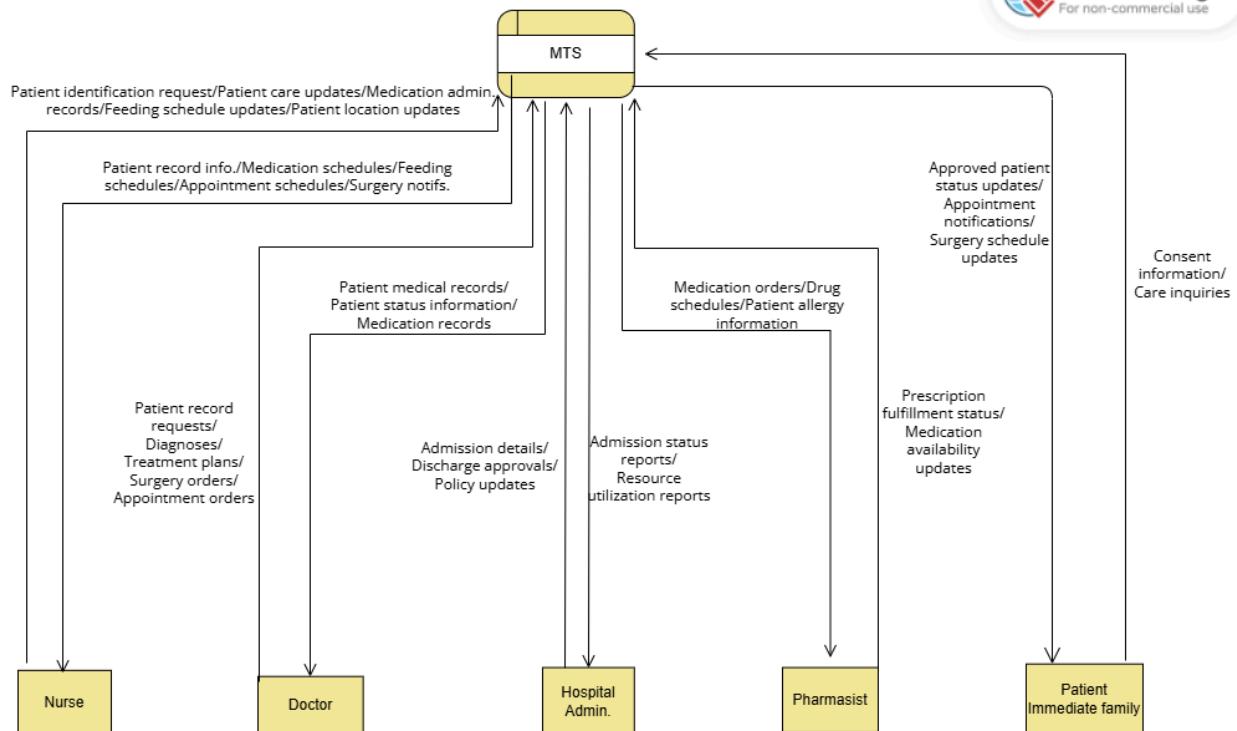
Data

- Hospital staff scheduling calendar (connects to all three processes)

Context Diagram

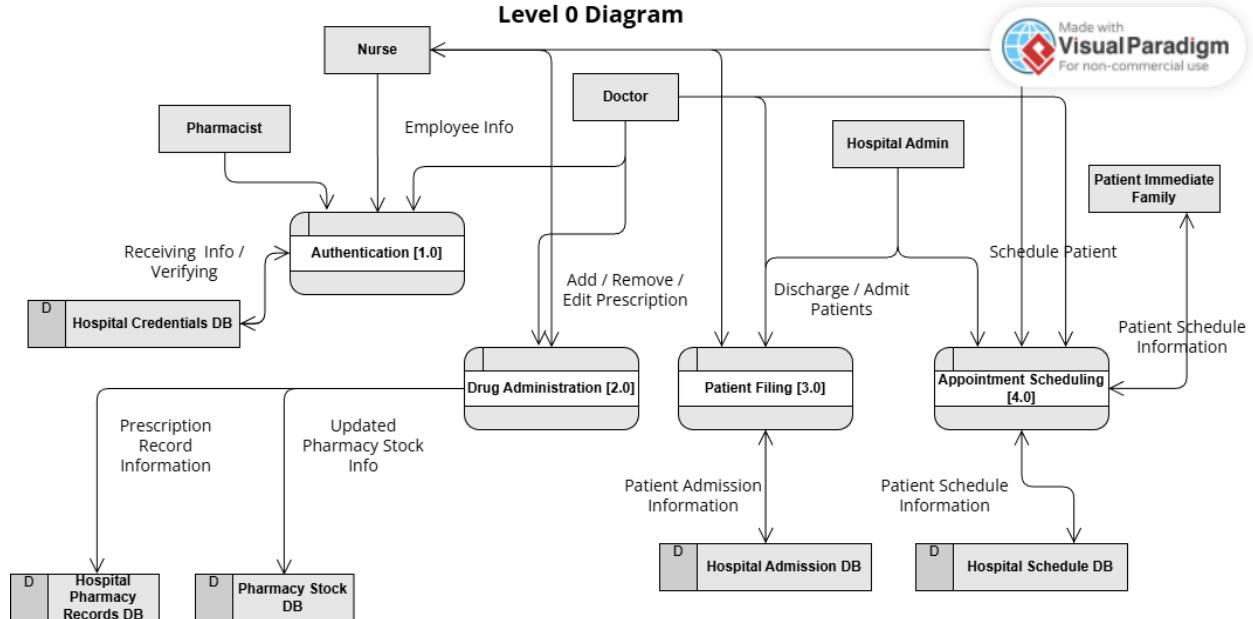
CONTEXT DIAGRAM MEDICAL TRACKING SYSTEM (MTS)

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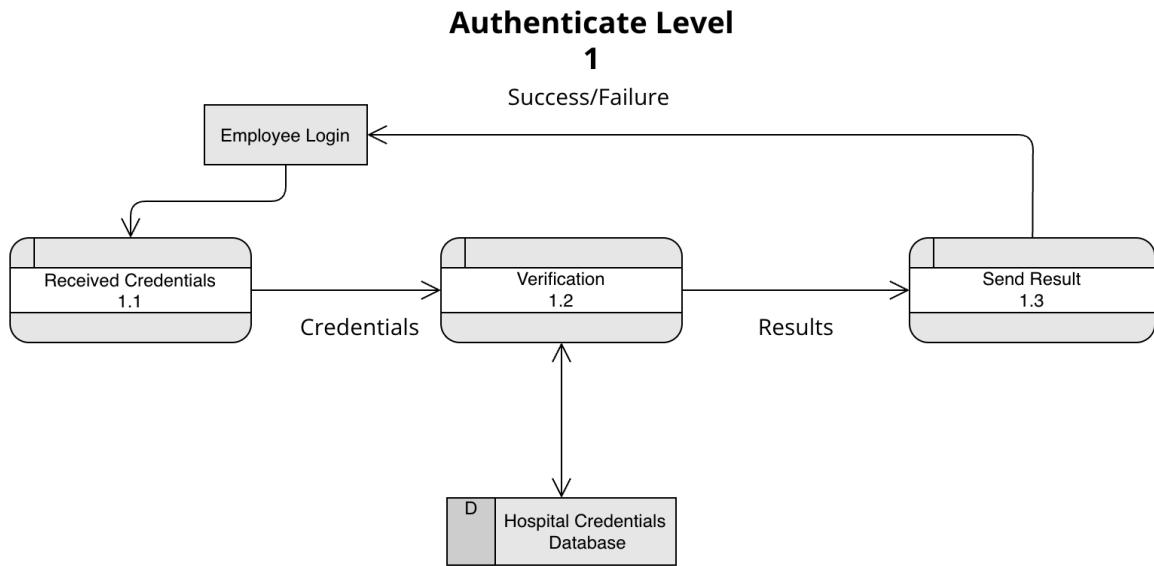


Level 0

Level 0 Diagram



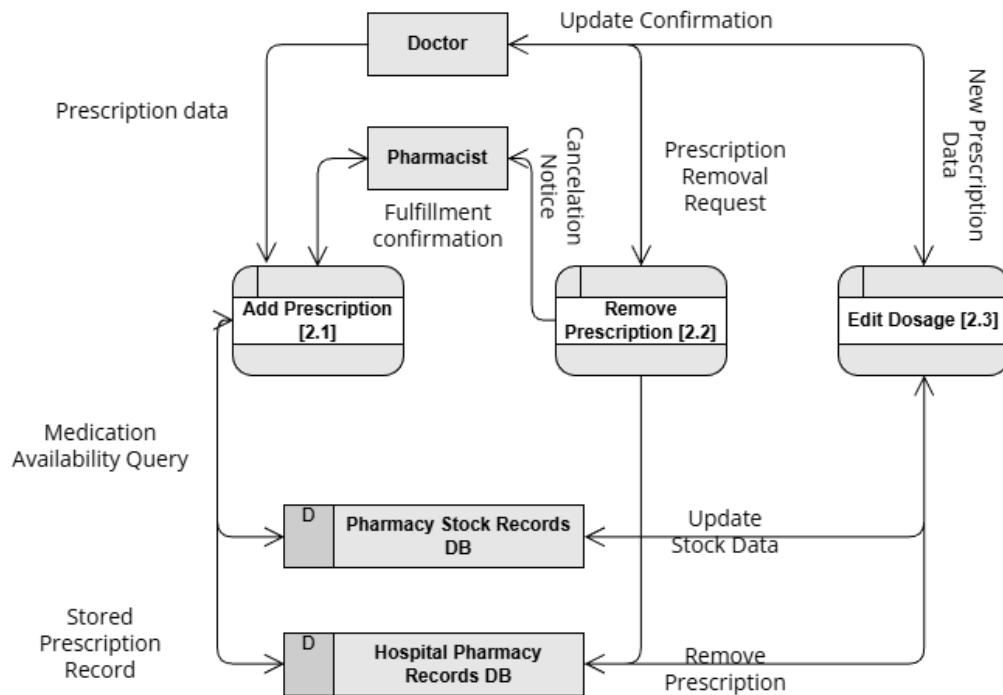
Level 1



- Verification 1.2
IF employee is not logged in THEN
 IF username and password is correct THEN
 Log In
 ELSE
 Reject
 END
ELSE
 Log Out
ENDIF

Drug Administration Level 1

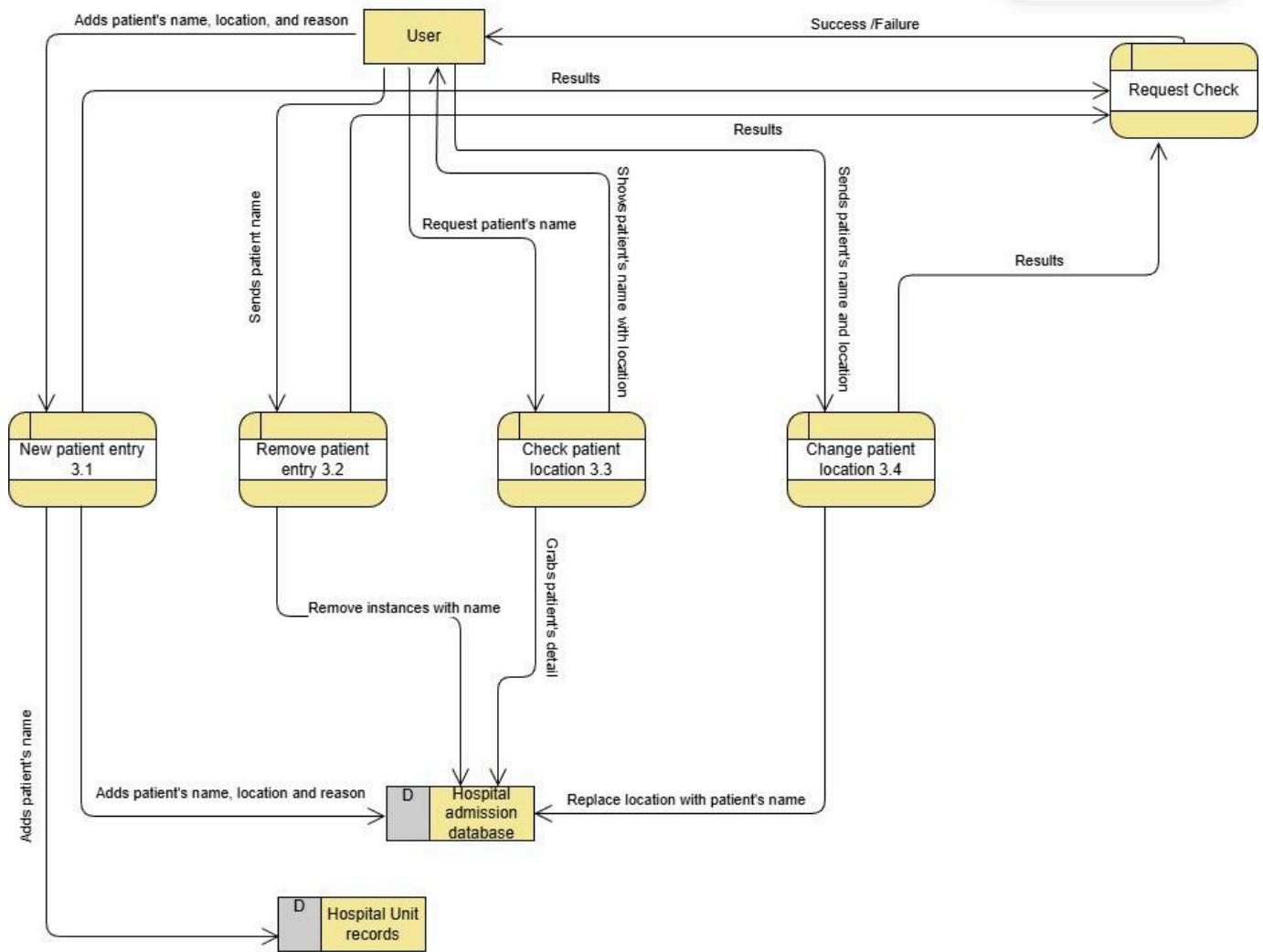
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- Edit Dosage 2.3
IF patient name match records
remove old prescription
THEN add new prescription
ENDIF

In/out Patient Log Level 1

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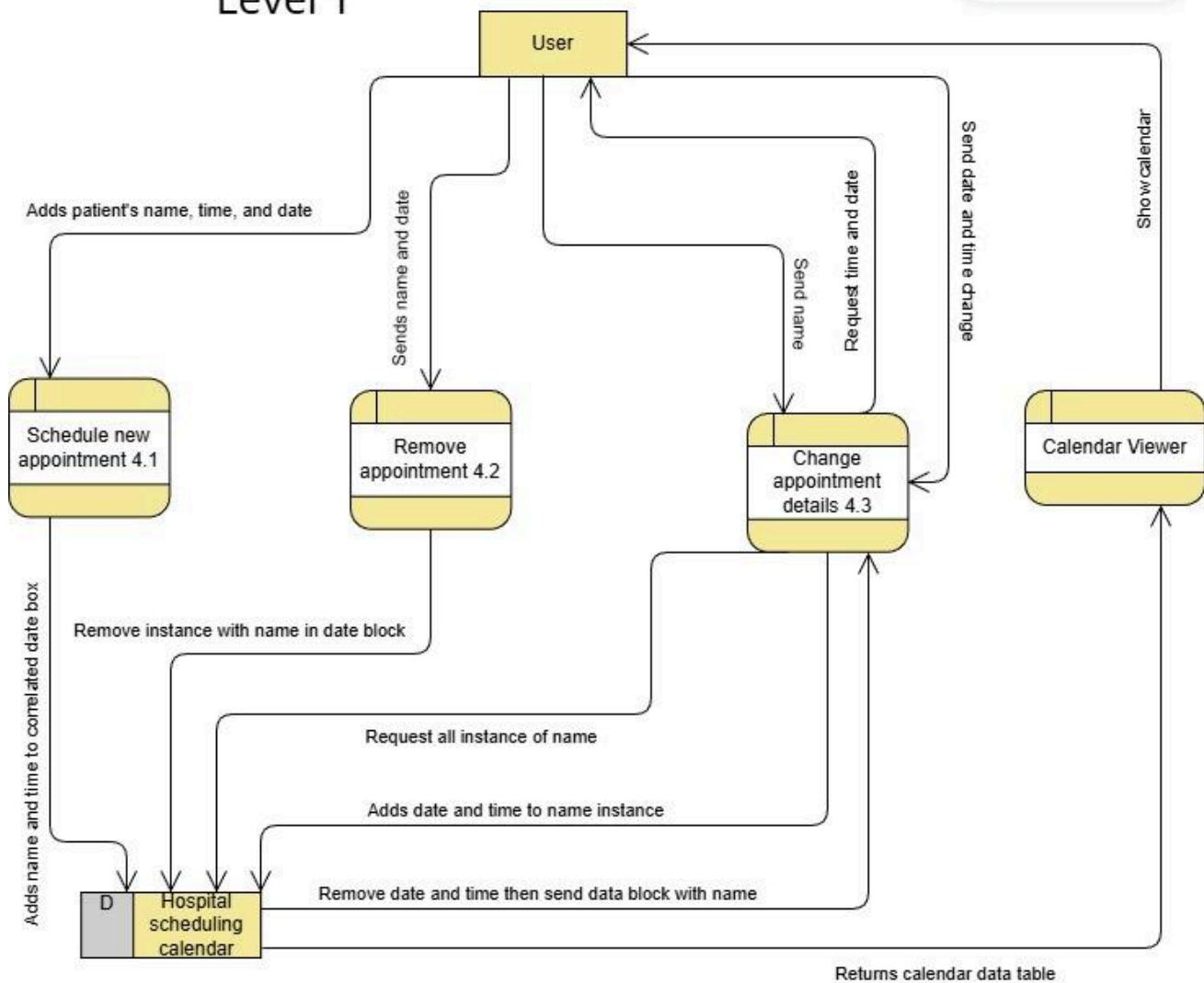


- Change patient location 3.4
 IF patient name match database
 remove old location
 THEN add new location
 ELSE send fail message
 ENDIF

Appointment Scheduling

Level 1

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Project Update: use case diagram, ERD, Gantt Chart (due feb 26)

1. List all the use cases of your system using the template provided in class and on Canvas
2. Draw a use case diagram indicate how the main actors interact with the system
3. Produce a detailed requirements specification document using the templates provided
4. Produce an ERD as demoed in class