

Software Design and Analysis

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Assignment#01

Stakeholders:

In stakeholders

1. Doctors
2. Patients
3. Nurses
4. Hospital administrative i.e.
 - Receptionist
 - lab assistant
 - Pharmacist
 - Pharmacist

Business Requirements:

- Complete system management
- Secure assurance
- Check and balance (Bill Mangement)

- Maintain record of Medicines and Hospital

Functional Requirements:

- Registration
- Login
- Verification
- U-id and password
- Clinic no allocation
- Appointment accept and cancel list
- Booked Appointment
- Prescription update
- Reports
- Manage Profile
- Views of stakeholders
- Medicine prepares
- Generate Invoice
- Account updating
- Payment method

User Requirements:

- **Patients feature**

- a) Appointment Book
- b) Examine medical records
- c) Emergency admission
- d) Creating discharge summaries
- e) payment of the invoice
- f) Obtain medications

- **Doctor's feature**

- a) View the prescription for the patient.
- b) Check out the patient's test results
- c) assess the patient
- d) View his or her Calendar
- e) Enter a patient's prescription here.
- f) Recommend examine to lab assistants
- g) Produce reports
- h) profile manages

- **Receptionist's feature**

- a) View appointment list
- b) View status with Nurses
- c) Book an appointment
- d) Register and Update Patient accounts
- e) Issue clinic number
- f) Profile management

- **Nurses feature**

- a) changes the patient account
- b) Conduct pre-assessment tests.
- c) View the availability of doctors
- d) assigning patients to concerned doctors, managing profiles

- **Pharmacists feature**

- a) cost of medications
- b) may view the prescription for the patient
- c) Give medication based on the patient's prescription
- d) Update the medicine status of hospital stock, Update profile

- **Lab Assistants feature**

- a) Updates patient Details
- b) Perform examinations
- c) Process specimens
- d) Generate test reports like CT scans, X-Ray images, and MRI reports
- e) Profile management

- **Cashiers feature**

- a) Creating a bill
- b) Receive cash
- c) View payment history
- d) Update profile

Non-Functional Requirements:

- a) Stability
- b) Safety and Maintainability
- c) Accessibility
- d) Availability
- e) Security
- f) Profitability
- g) Scalability
- h) Reliability
- i) Capacity
- j) Usability
- k) Performance
- l) Durability

Assignment#02

Requirement Analysis

- Draw use-cases for the identified HMS case study.



- Draw Swimlane Diagram to link activities/processes with actors

