

# Healthcare Management System – Sequence Diagram Documentation

## 1. Objective

To visualize how patients interact with the system from **registration to result delivery**, showing the **flow of information** between all key participants.

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## 2. Participants and Roles

Participant	Role
Patient	Registers, selects services, and makes payments
Healthcare System	Manages workflow, generates reports, delivers advice
Payment Module	Processes and validates payments
Doctor / Advisor	Performs consultations and prescribes treatment
Checkup / Records	Stores reports, treatment records, and final status

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## 3. Process Flow Overview

### 1. Registration & Service Selection

Patient provides personal details and selects the required service. System records this in the Checkup module.

### 2. Report Generation & Advice

System generates initial reports and provides guidance to the patient.

### 3. Payment

Patient makes payment. Payment module validates it, and system confirms success or failure.

### 4. Consultation & Treatment

System sends patient details and reports to the doctor. Doctor consults the patient and treatment details are stored in the Checkup module.

### 5. Final Checkup & Result Delivery

System conducts a final checkup and sends results or confirmation to the patient, completing the workflow.

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## 4. Highlights

- Sequential flow ensures each step is completed before the next begins.
- Data moves clearly from patient to system to modules and back.
- All actions are logged in the Checkup module to maintain consistency.
- Focuses on **dynamic interactions**, complementing static ER diagrams.

Healthcare System Sequence Diagram

