Automated
Health Clinic
Management Week 3

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## Project Overview

Main task:

Transitioning a health clinic from paper-based to digital records.

• Week 3 objective:

Using JSON as a temporary data store.

Add billing, insurance claims.

### Features:

- Core Features Implemented:
- Patient registration with insurance details.
- Appointment booking with validation (date, time, slot availability).
- Billing system: Generates itemized bills

### How it works

- Billing and Claims:
- Generate itemized bills for services.
- Submit claims for insured patients.
- Tracks claim status (e.g., Pending, Approved, Denied).

Use Case Diagram

# Class Diagram:

# Sequence diagram

# Challenges

#### • Challenges:

Difficult to handle modifications in JSON storage.

Adapting the code to use SQL based databases

#### • Future Plans:

Integrate SQL database (MariaDB).

# Next Steps

Add user authentication (e.g., admin, doctor, patient roles).

Write migration scripts for JSON data to the database in MariaDB