


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.
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Features:

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

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