

# **Business Requirement Hospital Management Database**

1. Develop dynamic patient profile templates that include fields for medical history, treatment plans, allergies, and diagnostic images. These templates should be customizable for different patient categories and conditions.
2. Provide advanced search functionality within the hospital management system to enable staff to quickly find patient information, resources, or medical records based on specific criteria.
3. Calculate and analyze patient readmission rates, identifying potential causes by using data of the patients, medical records, and appointments.
4. Provide comprehensive feature that enables users to schedule, view, and manage appointments in real-time. This should allow filtering by date, doctor, and patient, and provide easy access to modify or cancel scheduled appointments.
5. Provide procedure that retrieves a doctor's full schedule for a specific day, including patient names, appointment information, and order results by appointment times.
6. Get medical history for a patient, including all past appointments, prescriptions, doctor notes, and upcoming appointments.
7. Integrate real-time inventory management for hospital supplies and pharmaceuticals, including automated reorder notifications and supplier management to ensure essential items are always in stock.
8. Enable secure and seamless access to patient medical records across different facilities within the healthcare network, ensuring continuity of care and informed decision-making.

9. Develop an alert system to automatically notify healthcare staff of potential medication errors based on patient allergies, previous adverse reactions, or conflicting medications.
10. Monitor medication stock levels and expiry dates in real-time, sending alerts when stocks are low or medications are near their expiration.
11. Develop a function that reports on the utilization rates of medical equipment to provide detailed reports that help optimize equipment usage.
12. Checks and validates the insurance coverage for each patient upon admission to ensure billing accuracy and coverage.
13. Streamline billing operations with automated invoice generation, insurance claims processing, and payment tracking. Consider different billing rates for services, medication costs, insurance coverage, and applicable discounts.
14. Implement an automated notification system to alert patients and healthcare providers of important health milestones, medication refills, and follow-up appointments.
15. Implement robust security protocols and privacy measures to protect sensitive health data, including encryption, secure access controls, and regular security audits.