**A Centralized Multi-Hospital Patient Management System**

**Business Overview**

The Centralized Multi-Hospital Patient Management System is designed to efficiently track and manage patient records across three government hospitals in a big town in India. Given the affordable healthcare services available in these hospitals and the highly skilled doctors, the local population frequently relies on these facilities for their medical needs. To improve healthcare efficiency, the government aims to ensure seamless patient management, comprehensive patient medical history tracking and optimized pharmacy inventory management. Since patients often visit different hospitals depending on doctor availability and specialization, this system provides a unified patient database, allowing doctors to access instant medical histories, diagnoses, and prescribed medications.

**Requirements Analysis**

1. Patient Management – The system maintains comprehensive records for patients, their diagnoses, and prescribed medications to enable efficient and accurate treatment tracking.
2. Appointments & Payments – Patients schedule appointments with doctors in different hospitals. Each appointment is linked to a payment record, ensuring transparent billing and government financial tracking.
3. Hospital & Department Structure – Hospitals have multiple departments, which are standardized across all hospitals but distinguished through a unique Hospital\_id + Department\_id combination.
4. Doctor Scheduling & Shifts – Doctors work across various hospitals and departments, with their work schedules tracked through shift management.
5. Medical Inventory & Prescription Tracking – The system records prescribed medicines for each patient to ensure adequate pharmacy stock availability in hospitals.

This centralized database improves efficiency, eliminates redundant paperwork, optimizes resource allocation, and provides government insights for better healthcare planning.