NAME: Onyemaechi ebube destiny

Department: Software engineering

MAT NO: CMP2203703

Using ERD and used case diagram draw a hospital management system

This diagram represents a hospital management system that encompasses various roles and interactions within a healthcare institution.

Key Use Cases:

- * Patient Management:
- * Admission/Registration: New patients are registered with their personal information, medical history, and insurance details.
 - * Appointment Scheduling: Patients can schedule appointments with doctors or specialists.
- * Medical Record Management: Medical records are created and maintained, including diagnosis, treatment plans, and medication prescriptions.
- * Billing and Insurance: Billing information is generated and processed, and insurance claims are filed.
- * Staff Management:
- * Staff Information: Staff members' personal and professional information is recorded.
- * Scheduling: Staff schedules are created and managed, including shifts and assignments.
- * Performance Management: Performance evaluations and feedback are provided.
- * Payroll and Benefits: Payroll processing and benefits administration are handled.
- * Department Management:
- * Departmental Information: Information about different departments within the hospital is

maintained.

- * Resource Allocation: Resources like equipment and staff are allocated to departments.
- * Performance Tracking: Department performance is monitored and evaluated.

Additional Use Cases:

- * Inventory Management: Tracking and managing medical supplies and equipment.
- * Laboratory Management: Processing and analyzing lab tests.
- * Pharmacy Management: Dispensing medications and managing drug inventory.
- * Reporting and Analytics: Generating reports on patient demographics, staff performance, and financial data.

Key Interactions:

- * Patient-Staff Interaction: Patients interact with various staff members, including doctors, nurses, and administrative staff.
- * Staff-Staff Interaction: Different staff members collaborate and communicate to provide patient care.
- * Staff-System Interaction: Staff members use the system to manage patient records, schedule appointments, and access other relevant information.

Additional Considerations:

- * Security and Privacy: The system needs to have robust security measures to protect patient data and confidential information.
- * Integration with Other Systems: The system may need to integrate with other healthcare systems, such as electronic health records (EHRs) and billing systems.
- * Scalability: The system should be able to handle a growing number of patients and staff members.

Hospital Management UML Diagram

