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HOSPITAL MANAGEMENT SYSTEM

ABSTRACT:

The Hospital Management System (HMS) is a Console User Interface (CUI)-based Java application developed to streamline hospital administration by efficiently managing patients, doctors, and appointments. Utilizing Object-Oriented Programming (OOP) principles, the system ensures a structured, interactive, and user-friendly console-based experience.

This application simplifies hospital workflows by offering efficient record management, reducing manual effort, and enhancing accessibility. With its CUI-based approach, the system provides a seamless and organized way to handle hospital operations, ensuring improved efficiency in healthcare management.

Key Features:

- Patient Management: Add, update, and view patient details.
- Doctor Management: Maintain doctor records, specialties, and availability.
- Appointment Scheduling: Book, modify, and cancel appointments.
- Search Functionality: Easily retrieve patient and doctor details.
- Authentication: Secure access for hospital staff.

Technologies Used:

- Programming Language: Core Java
- Concepts Used: OOP (Encapsulation, Inheritance, Polymorphism, Abstraction)
- User Interface: Console-based (CUI with menu-driven navigation)

Team Members:

1. Manoj Babu Kokkirigadda – Team Leader
2. Sujith Kumar Madasu – Developer
3. Shanmukh Reddy Dalli – Developer