Patient Management System

B.Tech (CSE)
Dr. K. N. Modi Institute of Engineering and Technology
Submitted by: Shourya & Shasi

Abstract

This project is a Java Maven based Patient Management System designed to manage patients, doctors, appointments and billing in a hospital.

Introduction

The system helps hospitals reduce paperwork and manage data digitally.

Problem Statement

Manual hospital systems are slow and error-prone.

Objectives

To automate patient, doctor, appointment and billing management.

Scope

Small to medium hospitals can use this system.

Technology

Java, Maven, MySQL, JDBC.

Architecture

Layered architecture: Controller, Service, DAO, Model.

Modules

Patient, Doctor, Appointment, Billing.

Patient Module

Handles registration and updates.

Doctor Module

Manages doctor details.

Appointment Module

Books patient-doctor meetings.

Billing Module

Generates bills.

Database

Uses MySQL tables for all entities.

ER Diagram

Shows relations between Patient, Doctor, Appointment and Billing.

DFD

Explains data flow in system.

Advantages

Fast, reliable, accurate.

Limitations

Basic UI.

Future Scope

Web and mobile app.

Conclusion

System is useful for hospital management.

Bibliography

Java Docs, MySQL Docs, Online resources.