SwasthyaTrack

HOSPITAL MANAGEMENT SYSTEM

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1. Introduction

SwasthyaTrack

- **SwasthyaTrack** is an all-in-one digital platform that streamlines critical hospital operations while putting essential information and control directly into the hands of the patient.
- By providing features like **online appointments, digital medical records, and integrated billing, bed availability** we aim to simplify the patient journey and enhance communication between patients and medical staff.
- The system also integrates specialized modules for **doctors, lab technicians, and administration**, ensuring a seamless and efficient workflow for all stakeholders.

2. Problem Statement

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For Patients

1. Manual Appointments
2. Missing Medical History
3. Billing Confusion

Hospitals often struggle because their management model isn't built around the patient. This creates major problems and a poor experience for everyone involved, from patients to staff.

For Staff

1. Handwritten Prescriptions
2. Disconnected lab/billing systems
3. Poor bed visibility.

3. Research Objectives

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To build a digital platform that makes it simple for patients to book appointments, manage their medical records, and handle their bills alongside with bed availability

To build a unified system that gives medical staff instant access to the appointments alongside with patient's full medical history.

4. Research Questions

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01

How can we create a digital platform that makes it easier for patients to book appointments, access their records, view bed availability and pay bills?

02

How can we create a single system for hospital staff that makes clinical tasks like writing prescriptions and adding lab reports easier and less prone to errors?

5. Expected Outcome

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1. Enhanced Patient Experience

2. Optimized Hospital Operations

3. Secure & Centralized Data

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6. Tools & Technologies

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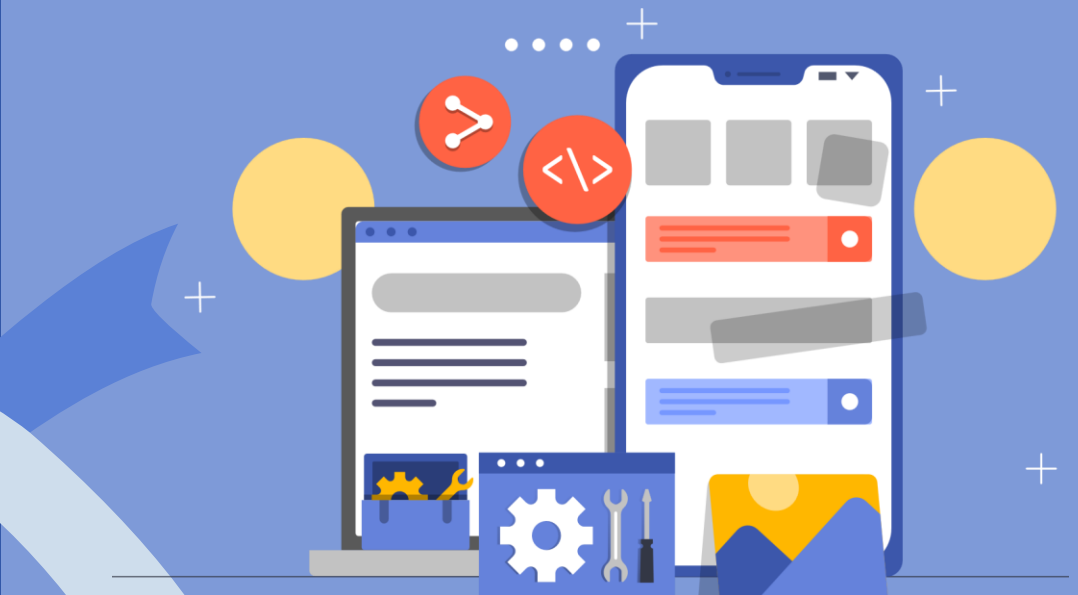
HTML5
CSS3
JavaScript



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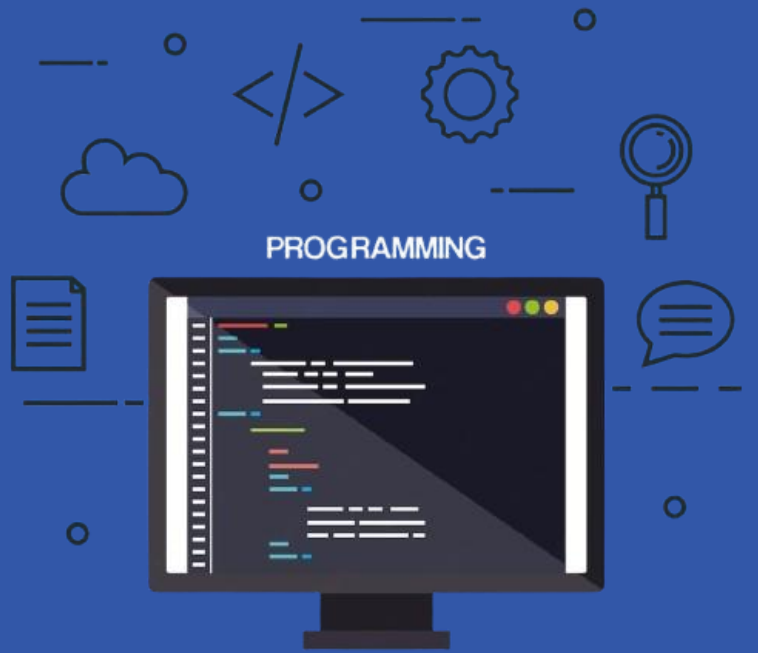
LAMP Stack
MySQL



7. Development Tools

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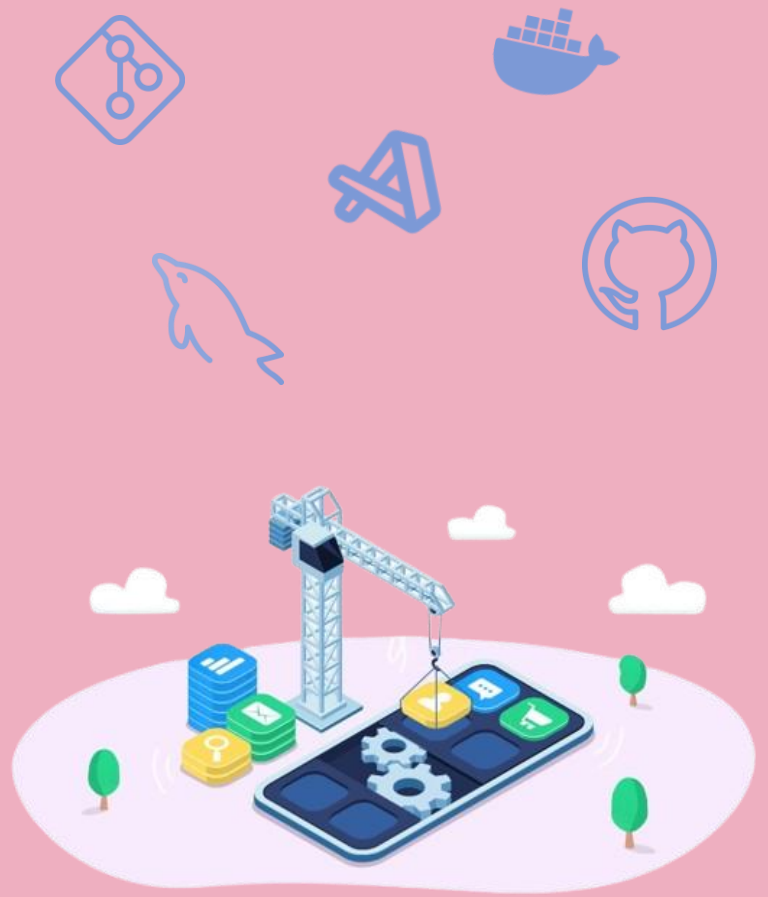
- Code Editors: VSCode or PHPStorm
- Database Management: phpMyAdmin or MySQL Workbench
- Version Control: Git and GitHub
- Containerization: Docker
- Diagramming Tools: Draw.io, Excalidraw
- Documentation Tools: Google Docs or MS Word
- Project Management: Notion



Thank You!

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-Because Every Health Step matters-

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- PHP Authentication and Access Control— SitePoint
  https://www.sitepoint.com/php-authentication-and-access-control-libraries/
- 11 Modules Of Hospital Management System And Their Benefits
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- How to Design ER Diagram for a Hospital Management System - GeeksforGeeks
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- What is patient record management system: A full guide for starters
  https://adamosoft.com/blog/healthcare-software-development/what-is-patient-record-management-system/
- Top 15 Modules of Hospital Management System
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