# Hospital Management System

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# Executive Summary

The objective of this project is to develop a robust Hospital Management System (HMS) using the C programming language. This system aims to streamline hospital operations, including patient records management, user authentication, and various administrative tasks. Key features will include a welcome screen, title display, main menu, login functionality, and record management capabilities such as adding, searching, editing, and deleting patient records.

The proposed system will enhance efficiency, reduce errors in record-keeping, and provide a user-friendly interface for hospital staff. The project is designed to be scalable and maintainable, ensuring it meets the evolving needs of healthcare facilities.

## Anticipated Deliverables

1. Complete Software Application:  A fully functional Hospital Management System with the following modules:

   - Welcome Screen

   - Title Display

   - Main Menu

   - User Login Screen

   - Add Record Functionality

   - Function List Display

   - Search Record Capability

   - Edit Record Functionality

   - Delete Record Functionality

2. Documentation:

   - User Manual

   - Technical Documentation

3. Testing Report: Comprehensive testing results ensuring the system meets all functional requirements.

 Required Skills and Experience

- Programming Languages: Proficiency in C language and familiarity with data structures.

- Software Development: Experience in software design principles and project management.

-Database Management: Understanding of file handling for record storage.

- Problem-Solving Skills: Ability to troubleshoot and debug code effectively.

- Communication Skills: Clear communication for project updates and documentation.

## Timeline

| Phase | Duration |
|-------------------------------|---------------|
| Project Planning | 2 weeks |
| System Design | 2 weeks |
| Development | 4 weeks |
| Testing | 2 weeks |
| Documentation | 1 week |
| Final Review & Delivery | 1 week |

## Professional Development:

Through this project, I will enhance my skills in software development, specifically in the C programming language and system design. Additionally, this experience will improve my project management abilities and deepen my understanding of healthcare processes. I will also gain valuable insights into user experience design by creating an intuitive interface for hospital staff.

## Conclusion:

This proposal outlines the plan for developing a comprehensive Hospital Management System that meets the needs of healthcare facilities. I look forward to discussing this project further and exploring how we can make it a success.

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