Hospital Management System

Nurjahan Akter IT 23045  
 October 2024

Department Of Information & Communication Technology  
  
 Mawlana Bhasani Science and Technology University  
  
  
  
  
  
  
  
 1  
  
Executive Summary  
The main objective of this project is to design a strong HMS using the C programming language. This HMS targets the management of different tasks related to any hospital, such as maintaining patient records and authentication of users performing different administration activities. In this way, a welcome screen, title display, main menu, login functionality, and record management. The system will be able to manage all the records of the patients, such as adding a record, searching by name or ID, editing a record, and deleting a record.  
It will reduce errors in record-keeping and enhance efficiency, while the system will be user-friendly for personnel within the hospital. This project will be scalable and maintainable, enabling it to meet changing requirements in healthcare institutions. Expected Outputs  
  
1. Software Application Complete: A functional Hospital Management System with the following modules:  
  
- Intro/Welcoming screen  
- Title appearance  
  
- Main Menu  
  
- User Login interface  
- Add Record  
- List of Functions  
- Search Record  
- Edit Record  
- Delete Record  
2. Documentation:  
- User Manual  
- Technical Documentation  
2  
3. Testing Report: Comprehensive testing results ensuring the system meets all functional requirements.  
Desired Skills and Experience  
Software Development  
Software design principles and project management experience  
Programming Languages : Able to program in C language and familiar with the concept of Data Structures. - Database Management: To understand file handling for record storage.  
- Problem-Solving Skills: Capable of troubleshooting a code snippet and debugging it efficiently. - Communication Skills: Clearly communicate regarding project status updates and documentation.

2  
  
  
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:  
This project will help me enhance my skills in software development, specifically in the C programming language and system design. This experience will further enhance my management of projects and help me understand the processes involved in healthcare. I will also gain important knowledge about user experience design by creating an intuitive interface for hospital staff.  
  
Conclusion:  
What follows is a proposed plan of development for a comprehensive Hospital Management System that can cater to all needs required for any healthcare facility. I am also very much eager to take up the discussion of the project and identify how we can help make this project a success.  
-  
Prepared by :  
Nurjahan Akter  
It23045@mbstu.ac.bd  
28/09/2024

3