Republic of Iraq Ministry of Higher Education and Scientific Research University of Babylon College of Information Technology Department of Information Network



Design And Implementation Hospital Management System

A Thesis Submitted To Council of the College of Information Technology, University of Babylon, Department of Information Networks in Partial Fulfilment of the Requirements for the BSc Degree in Information Technology

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Abstract

This study aims to develop an advanced hospital management system aimed at improving healthcare processes and patient experience. Through this project, a system has been designed and developed to efficiently manage patient information, schedules, and inventory, leading to overall hospital efficiency improvement and the delivery of high-quality healthcare. The project focused on multiple objectives including enhancing achieving patient experience and reducing waiting times, increasing operational efficiency in the hospital through automation and transitioning to an integrated management system, facilitating the provision of medical services to patients and improving their quality, improving inventory and medication management in pharmacies and reducing waste, increasing data accuracy and reducing administrative errors, enhancing data communication between different departments to improve care coordination and treatment, providing a more efficient and productive work environment for medical and administrative staff, delivering comprehensive reports and analytics to support better managerial decision-making, enhancing information security and protecting patient privacy, and providing a flexible system that can be adapted to the hospital's needs and future developments.

In the project, the following languages were utilized: HTML, C#, CSS, SQL, and JavaScript. These were implemented on the Visual Studio platform using ASP .NET Core 8 technology.