Synopsis Report On

"School Management System in Visual Studio"

Submitted in partial fulfillment of the requirements.

for the award of the degree

Overseer

in

Computer Engineering

Submitted By:

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Carried out at:

1. INTRODUCTION:

This OJT project aims to create a simple and easy-to-use system to make managing school tasks better. The system will do things like enrolling students, making class schedules, keeping track of attendance, grading, and making reports. By doing these things automatically, the system wants to make school stuff easier and more organized. The project involves understanding what the school needs, making a simple interface, setting up a safe database, connecting with other school systems, and testing everything well. The system is made to help school people, like teachers and staff, do their jobs better, organize things, and make learning at school better for everyone.

2. PROBLEM IDENTIFICATION AND FORMULATION:

The identification and understanding of issues in this OJT project for school management involve recognizing challenges like complicated enrollment processes, time-consuming attendance tracking, grading errors, and limited reporting features. The project aims to tackle these problems by creating a system that automates tasks, improves student and class tracking, enhances administrative management, and offers detailed reporting functions. The objective is to simplify school operations, enhance user experience, and enable the school to provide improved services to students and staff.

3. OBJECTIVE OF THE PROJECT:

1. Automate Enrolment Processes: Create a system to automate the enrolment process, enhancing the organization and accessibility of student records.
2. Streamline Attendance Tracking: Introduce a user-friendly interface to simplify recording attendance, making the tracking of student attendance more efficient.
3. Improve Student Tracking: Develop a reliable student tracking mechanism to accurately locate student information and minimize instances of misplaced or lost records.
4. Enhance Late Submission Management: Implement an automated system to generate notifications and reminders for late submissions, ensuring timely completion of assignments and enforcing consequences.
5. Simplify Student Management: Create a module for efficient student registration, ID card issuance, and record management.

4. HYPOTHSIS:

The hypothesis for the OJT project "Library Management System" is that implementing the system will significantly improve the efficiency, accuracy, and user experience of library operations compared to the current manual processes. It is expected that the system will enhance cataloging, streamline borrowing and returning processes, improve book tracking, enhance overdue item management, simplify member management, provide comprehensive reporting, and enhance accessibility. The hypothesis assumes that these improvements will lead to better resource management, faster transactions, reduced errors, improved decision-making, and increased user satisfaction in the library.

5. SCOPE OF STUDY:

1. Cataloguing: Develop an automated system for efficient cataloguing, including defining data fields and implementing search functionalities.
2. Borrowing and Returning: Design a user-friendly interface for borrowers and librarians, facilitating book transactions, reservations, due date management, renewals, and transaction history tracking.
3. Book Tracking: Implement a robust mechanism to accurately locate books, manage shelf organization, and track book availability.
4. Overdue Item Management: Develop an automated system for generating notifications, managing penalties, and enforcing timely returns of overdue items.
5. Member Management: Design a module for member registration, membership card issuance, member information updates, and communication features.

6. DATA COLLECTION:

The hypothesis for the OJT project "School Management System" posits that implementing the system will substantially enhance the efficiency, accuracy, and user experience of school operations compared to the existing manual procedures. It is anticipated that the system will improve enrollment processes, streamline attendance tracking, enhance student tracking, manage late submissions effectively, simplify student management, provide comprehensive reporting, and improve overall accessibility. The hypothesis suggests that these enhancements will result in improved resource management, quicker administrative tasks, minimized errors, enhanced decision-making, and increased satisfaction among students and staff in the school.

7. RESEACH TOOLS APPLIED:

The research tools employed for this OJT project encompass surveys, interviews, observation, documentation review, prototyping and usability testing, comparative analysis, and literature review. Surveys and interviews are conducted to collect insights from school staff and students, while observation offers a firsthand understanding of current operational processes. Documentation review aids in comprehending existing practices, and prototyping with usability testing ensures the development of a user-friendly system. Comparative analysis delves into existing solutions, and literature review provides a theoretical foundation. These tools are utilized to gather pertinent information, comprehend user requirements, and make well-informed decisions throughout the development of the school management system.

These are some of the programming languages for the application development:

1. C#
2. C++
3. JavaScript
4. Python

We can use above all languages for development, but I will use c # as a language and MySQL as a database**.**

In conclusion, the OJT project "School Management System" aims to automate and enhance various school operations, leading to improved efficiency and user experience. The project encompasses the development of features related to enrolment, attendance tracking, student tracking, late submission management, student management, reporting, and accessibility. To gather essential data and insights, research tools such as surveys, interviews, observation, documentation review, prototyping, comparative analysis, and literature review will be applied. These tools are instrumental in collecting information, understanding user requirements, and making well-informed decisions throughout the system development process. The anticipated outcomes of the system implementation include enhanced resource management, streamlined administrative processes, improved user experience, and the efficient delivery of educational services. The system is poised to modernize the school's operations, aligning with its goals and objectives while providing enhanced services to students and staff.

Approved By

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