

Project Title: KINDERGARTEN MANAGEMENT SYSTEM (KMS)

1. Introduction

The distribution of study reports is been shared and become a regular agenda at school. The reports are generally in the form of paper or books, which distributed when parents come to school. The meeting schedule notified beforehand, with the expectation that all parents can attend. This method is not effective, because it requires a special time and limited Forum time. While much information needs to be conveyed by the school to parents. The study report created by the teachers (Academic Master) after some time of evaluation. There is a possibility of missing information, due to the long period. While the development of kid should be immediately addressed without having to wait for the evaluation process.

2. Problem Statement

The reports are generally in the form of paper or books, which distributed when parents come to school. Kindergarten kids are too young to understand the importance of details and are not attentive or concentrated on them, so they damage or lose the information, or deliver it in a different way than they told at school. This problem of kindergarten kid not delivering information to parents or guardians may be because these kids are not able to focus on the details. Therefore, we decide to develop a Web Based management System that will connect parents/guardians with school and share information from school to the parents or guardians and from the parents or guardians to school. Both, the teachers and the parents, will use this system. By using this system, all problems of not delivering information from parents or guardians to school or from school to parents or guardians will be solved. In addition, it will help the parents deliver information on time and take the action that is needed on time.

3. Project objectives

General objective

To develop a Kindergarten Web based System that will connect parents with school through the system and makes them communicate in an easy way .Also the system will track the child development on academic issues, through the system a parent can get all information about his/her kid.

Specific objectives

- i. To create an interface or main screen that will include log-in form
- ii. To develop a dashboard,
- iii. To develop a database that will store the records of students with their parent's data and data of staff members in form of tables.
- iv. To register student to the system with their next of kin information

4.The scope of project

This project focused on streamlining administrative tasks, enhancing parent-school communication through the use of email system and push notification, attendance tracking ,security and compliance, classroom and daily operations. the system will support teachers, parents and administrators.

On the other hand, we will not do the following:

- i. We will not integrate with any payment issues concerning to the school.
- ii. Play based learning.

5.Project Significance:

Kindergarten Web based System is the online system that will contribute improvement in management in kindergarten. This system is design for kindergarten to help the administrator and teachers in management of kindergarten with the following features.

- i. Less human error
- ii. Data redundancy can be avoided to some extent (Automation on Report creation)

- iii. Easy to handle (record keeping)
- iv. Easy data updating
- v. Reduce the cost of printing hundreds of copies of report for each kid in order to inform parents for any news regarding to classes or the kindergarten.
- vi. To inform parents in advance regarding to kindergarten's events such as visiting for sightseeing, annual celebration and any activity takes place outside the school area.

6. Methodology

The project will use an object-oriented development methodology supported by UML diagrams (use case diagrams, class diagram, sequence diagram)

Technologies to be used include:

Frontend: HTML, CSS and Java script

Backend: PHP/Python

Database: MySQL

Tools: XAMPP, VS code

7. System Requirements

Hardware Required:

- i. Network devices e.g., Modem
- ii. Personal Computer

Software Required:

- i. Visual Studio
- ii. Sublime text editor
- iii. Browser (Google chrome, Mozilla Firefox, Microsoft Edge)
- iv. XAMPP

8.Literature Review

Kindergarten Web based System will be used by the school as source of information from school to the parents and from parents to school, the parents can get all required information about their kids from school and know the development of their kids, so by using that system it will build a good relationship between the school and the parents.

The system will be used by the school to manage and organize the kid's development on the academic issues and monitor the kid's development. On the system, parents, teachers and the overall school staff will be connected together, teachers can upload kid's information and their results, and parents can view and share kid's information to the school.

By using that system, the school will send and receive information's about the kids from/to parents, that information will be reached to the destination on time, and when there is, any action required will be conducted on time, so the parents can get overall information about their kids on specific time.

9.Expected Output

- i. Improved operational efficiency
- ii. Enhanced parent Engagement and communication
- iii. Data-Driven insight and Reporting
- iv. Increased safety and security
- v. Staff Empowerment and Reduced workload

10.Conclusion

This project aims to addresses the limitations of traditional manual process in early childhood education settings, such as paperwork overload, data inaccuracies, delayed communication, and inefficient administrative task. By developing a digital platform typically featuring modules for students' registration, attendance tracking, progress reporting, school to parent's communication through the use of email and push notification system and school statistics prediction.

Project Title: PRISON MANAGEMENT SYSTEM.

1. Introduction

Prison management systems is a software or technological solutions that will be designed to manage and monitor various aspects of prison operations, such as inmate tracking, security, communication, and administrative tasks. The development of prison management systems has been driven by the need to improve the efficiency and effectiveness of correctional institutions and to ensure the safety and well-being of both inmates and staff.

2. Problem Statement

Management of prisons in Tanzania is still at a nascent stage and follows rudimentary processes. Most of the collection of the prisoner and visitor information is done through the collection of manual files. This is very inefficient and cumbersome as well as makes looking up information time-consuming. Another problem faced by the prison system is the issue of security. Prisons are high-risk environments, and ensuring the safety of inmates, staff, and visitors is paramount. However, managing security measures can be a complex task, requiring the coordination of various departments and the implementation of multiple layers of security measures. The prison management system represents a significant advancement in correctional facility management. It enhances security, streamlines administrative processes, improves inmate management, and promotes rehabilitation. By leveraging technology and automation, the system helps create a safer and more rehabilitative environment, contributing to the broader goal of maintaining well-operated prisons and facilitating the successful reintegration of inmates into society.

3. Objectives of the Project

Main Objective

To develop a web-based system that will enhance the administrative capabilities of the prison in terms of monitoring and security of the prison.

Specific objectives

- i. To generate real time reports analytics on inmate population trends
- ii. To develop role- based access controls and database to store comprehensive inmate records, attendance, incidents.
- iii. To reduce operational costs and increase efficiency

4. Scope of the Project

This project focus on digitizing and automating correctional facility operation from inmate admission to release, while ensuring security, compliance and justice integrations. The system will support inmate, staffs and visitor. The system will not cover payment issues, health and rehabilitation management

5. Significance of the Project

The significance of the prison management system is to simplify work done in Prison by allowing the storage of prisoner and visitor data in computerized form this will make it easier to search for information and time-saving.

6. Methodology

The project will use an **Object-Oriented Development Methodology** supported by UML diagrams (use-case diagrams, class diagrams, sequence diagrams). Technologies to be used include:

Frontend: HTML, CSS, JavaScript

Backend: PHP / Python

Database: MySQL

Tools: SUBLIME Text editor IDE, XAMPP

7. System Requirements

Software Requirements

Windows Operating System

XAMPP Server

MySQL Database

Web Browser (Chrome/Firefox)

Hardware Requirements

- Laptop (8GB RAM, Core i5 or above, 256SSD/500HDD or above)

8. Literature Review

“Without using a system mostly work done in a different area can begin losing the ability to effectively provide employees with the technical support need to do their job” (Ismaili, Balki & Caushi, 2018). In a Prison Management System today most of the services involve many manual operations, which leads to taking a lot of time to search for some information if needed. Also sharing information is difficult. So, in any organization, the establishment of using a computerized system is more important.

Prison Management System is a computer-based system designed to help prison authorities manage their operations efficiently. The system can store information about prisoners, visitors, and the activities of the prison staff. It can also help in monitoring and controlling the access of unauthorized persons into the prison premises. Prison Management System can be used in both small and large-scale prisons. This system is beneficial to the prison authorities as it helps in reducing errors and improving the overall efficiency of prison management.

9. Expected Output

- i. Accuracy and real time inmate records
- ii. Comprehensive report and analytics
- iii. Enhance security and reduced incidence
- iv. Streamlined Administrative processes
- v. Cost and time saving.

10. Conclusion

In conclusion, the implementation of a prison management system that keeps records of inmates and visitors can have a tremendously positive impact on the overall operations of a prison facility.

The system can streamline the process of inmate management, improve security measures, and ensure the safety of all staff members, visitors, and inmates within the facility.