International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology

ISSN 2320-088X

IMPACT FACTOR: 7.056

IJCSMC, Vol. 11, Issue. 2, February 2022, pg.127 – 133

An Initiative Towards School and Students Data Management

Yogeshri Choudhary

Assistant Professor in Dept. of Information Technology Engineering, Karamveer Dadasaheb Kannamwar College of Engineering, Nagpur, India

Abhishek Ingle

Department of Information Technology Engineering, Karmavir Dadasaheb Kannamwar College of Engineering, Nagpur – 440009, India

Email id: Abhishek03ingle@gmail.com

Ankit Anand Sarojkar

Department of Information Technology Engineering, Karmavir Dadasaheb Kannamwar College of Engineering, Nagpur – 440009, India

Email id: ankitsarojkar123@gmail.com

Akash Kishor Rawle

Department of Information Technology Engineering, Karmavir Dadasaheb Kannamwar College of Engineering, Nagpur – 440009, India

Email id: rawleakash7@gmail.com

Vaibhav Jumde

Department of Information Technology Engineering, Karmavir Dadasaheb Kannamwar College of Engineering, Nagpur – 440009, India

Email id: vaibhavjumde06@gmail.com

DOI: <https://doi.org/10.47760/ijcsmc.2022.v11i02.015>

Abstract— Since the advent of school management systems, which emphasize information flow and e-communication between teachers, students, and parents, effective e-leadership and data-based decision making has become possible. This study examines the e-leadership of secondary school leaders through the Mashov School Management System implemented in 500 Israeli schools to increase effectiveness. Semi-structured interviews will be conducted at the end of the 2010/2011 academic year with 10 participants (8 secondary school leaders, 1 Ministry of Education supervisor, 1 school leader training program director). I did. The results show that this system comprehensively supports school operations in organizational management, delegates responsibilities, promotes electronic leadership among teachers, and thereby enhances the educational effectiveness of the school. e- Leadership through the school management system changes the entire school culture. This includes making the decisions supported by the database. Curriculum implementation and learning performance monitoring. Interact with teachers, students and parents. Improve the school climate. Participants from students and parents should be encouraged to participate. The results are described for a comprehensive innovation model of innovation islands and technology implementations. To improve e-leadership, school leaders expand the implementation of school management systems between students and parents, delegate responsibility for e-leadership, and monitor the level of teacher activity within the system recommend.

Keywords - Cloud Computing

I. INTRODUCTION

1. Now a day's schooling performs an extraordinary position in improvement of any country. Many of the schooling groups attempt to growth schooling nice. One of the components of this development is dealing with of faculty resources.
2. Any person or group engaged in offering a service to students, instructors and guardians is a middleman that plays one or more of the following functions Student Admission, Employee Registration, Student List, Employee List, Student Attendance, Employee Attendance, Student Routine, Accounts, Result Management, and Payroll.
3. A School Management System (SMS) provides all the necessary offerings for an academic institute to make your life easier and faster by optimizing its performance through the use of the internet. Student Management System Eases Admission Process, Student and Teacher Attendance Maintenance, Staff Registration, Maintaining Fee Details, etc.
4. EMS is a gadget in order to offer you a bird's eye view of the functioning of the complete academic group. It is a control statistics gadget enables to manipulate the one-of-a-kind tactics in an academic group like General Administration, Staff Management, Student Management, Account and Academics etc.
5. The statistics is made the usage of the modern-day technology and help's to make selection making loads quicker, powerful and simpler than ever before. Also enables to enhance the general nice of schooling of the group.
6. We use database and database generation are having a prime effect at the developing use of computers.
7. The implementation of the gadget changed into carried out the usage of Python and SQL Server 2012 technology, permitting gadget to be run in Windows OS.
8. In a nutshell, School Management Software controlled your schooling group via way of means of simplifying and automating tactics and addressing the desires of all stakeholders assisting them to be extra green of their respective position.

Tkinter

The tkinter package provides access to the Tcl/Tk GUI toolkit for Python. It is available on most Unix platforms, including macOS, as well as on Windows.

Using `python -m tkinter` from the command line will show you the Tk interface, letting you know that it is properly installed, and also showing the Tcl/Tk version you have installed, so you can read the Tcl/Tk documentation for the version you have installed.

Depending on the Tcl/Tk version, Tkinter builds with or without thread support. The official Python binary package bundles Tcl/Tk 8.6 threaded.

Unlike a thin wrapper, Tkinter adds a significant amount of its own logic to make the experience more pythonic. This documentation will focus on the additions and changes, and refer to the official Tcl/Tk documentation for details that remain unchanged.

II. PYCHARM

Pythoncharm is a Python integrated development environment (IDE) that comes with an integrated set of tools for python developers. The tools are tightly integrated to provide a convenient environment for working in python, western web, and data science.

PyCharm is an integrated development environment (IDE) for computer programming, specifically for Python.

JetBrains (former IntelliJ) developed it. It provides code analysis, a graphical debugger, an integrated unit tester, and support for web development and data science, as well as integration with version control systems.

III. SQLITE

SQLite is an in-process library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. There is no charge or restriction for using SQLite's code, which is in the public domain. Databases like SQLite are widely deployed around the world, including several high-profile projects.

The SQLite engine is an embedded SQL database engine. Unlike most other SQL databases, SQLite does not have a separate server process. SQLite reads and writes directly to ordinary disk files. The entire SQL database, including all tables, indexes, triggers, and views, is contained on a single disk file. The database file format is cross-platform you can freely copy databases between 32-bit and 64-bit systems, or between big-endian and little-endian architectures. As an application file format, SQLite is popular because of these features. The US Library of Congress recommends SQLite database files for storing information. Think of SQLite as a replacement for fopen(), not Oracle.

Module

1. Students' module

2. Fees report

3. Library system

Hardware/Software Requirement:

1. PyCharm
2. SQLite
3. Laptop/desktop
4. Windows 7 or later

Advantages:

- Effective communication between students, teachers and parents.
- Automating the entire process.
- Information centralized with no redundancy.
- Interaction with teachers frequently.
- Reliable update on child attendance, progress report and fees payment.
- Tracking of homework assigned by to their child.
- Automated attendance of students.
- Marks and grades are managed by computers.
- Homework submissions can be made online.
- Prior information about school events and holidays.

Disadvantages:

1. Due to Network Traffic it maybe Crash.
2. Personal Data might be stolen by admins.
3. Does not work on low-configuration devices.
4. Without an Internet connection it is useless.

Future Scope:

- Getting A Student's Attention Is Difficult

A teacher's job is hard no matter if the student is studying at home or using a computer in the classroom. Thus, teachers must be prepared and undergo special training to use educational software effectively and connect with students. Educators must be prepared to deal with the distractions caused by gadgets and computers.

- Software Selection Is Difficult

It might be hard to pick the best appropriate educational app or website when there are so many on the market. Children's educational software requirements are numerous, so this is especially true for their education. In addition to being entertaining, informative, age-appropriate, and a good fit for the target audience, it should also be age-appropriate. It might be difficult for parents to make the best decision.

- It Isn't a Choice For Every Student.

The use of educational software may be difficult for students who have health issues or poor eyesight. In order to select educational software that meets a student's needs, you must consider other learning options. How much do you teach them by playing games? Future enhancements are always possible for all software.

There are few enhancements which are pointed out in the proposed system. They are as follows:

1. Module for Employee Recruitment
2. Module for Science Lab including inventory management system
3. A complete accounting system matching the VAT policy.
4. Web Module for web interface. After all the future is Internet.
5. The integration of online examinations for entrance exams.

Figure 4: Flow Chart of Management System

IV. CONCLUSION

School management software is a total solution for the management system requirements of a school or college. Using the menu bar, users can interact with the software very easily, and almost every object has been provided with a toolbar.

Additionally, the application supports terminal services to centralize the database, so that the data is more secure. Our final point is that we are not yet experienced system analysts, but we did our best to fulfill this task.

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