TECHNICAL PAPER

"Desktop Application for School Management System"

(IT253: SOFTWARE GROUP PROJECT-I)

Prepared by
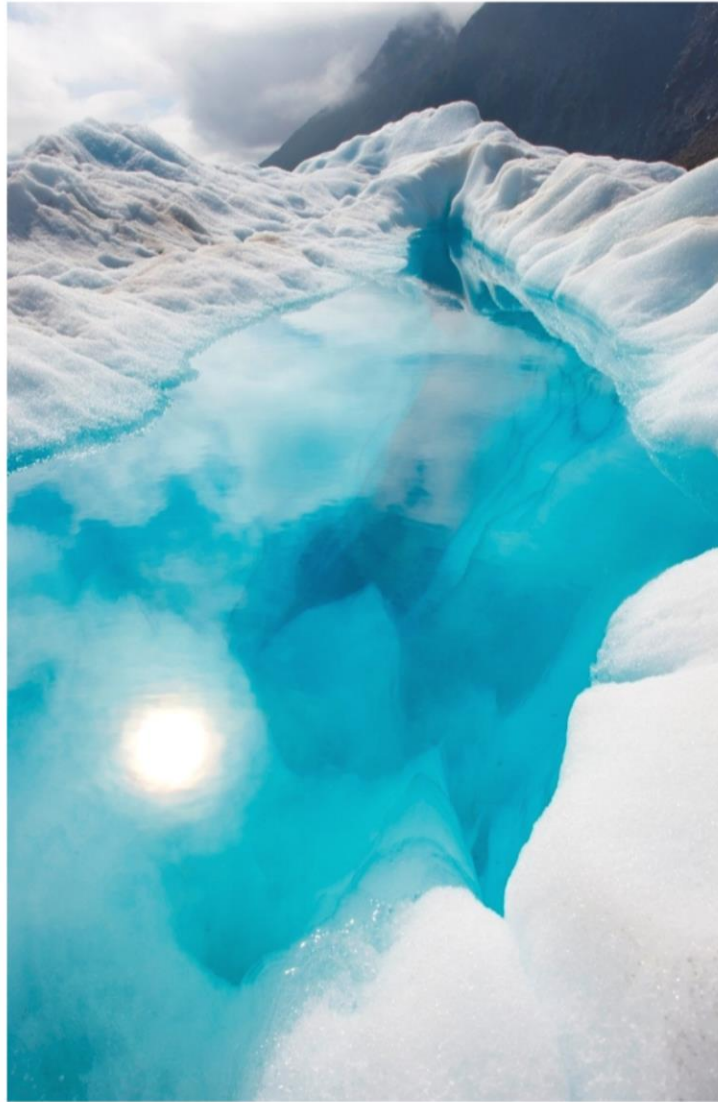
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School Management System

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INTRODUCTION

School Management System plays an essential role in the current educational system. School authorities all over the world are engaged in a lot of day-to-day administrative and academic activities to manage and provide a better academic experience to students effectively. However, maintaining and keeping track of school administrative activities is not an easy process in the fast-growing world. It requires hard work and often it is time-consuming.

To better perform the school administrative activities of educational institute and to assure parents the real-time progress and security of their children, educational institutes utilizes School Management software nowadays. Such applications often offer many features that help to enhance the performance of schools with minimum efforts. School Management software does it by avoiding the manual paper works and automation of many academic and administrative activities.

Now let us take a look at why institutes need to implement it.

Student Information

Attendance, homework, discipline, grades and achievements! Every information that is related to students can be easily accessed using a school management system. It helps teachers to quickly obtain information about students fast and easy reducing their workload. The student database in a school management system contains much information about students such as their Examination grades, Parental information, Medical history, details related to school fee, etc. Many School management system offers real-time information and announcements through SMS as well.

Parent Access

Parents play a crucial part in the child's education. They are continuously involved in it. And it is necessary to keep them updated and notified about the progress of their child. Previously schools had to conduct parent's meetings to keep update parents about the academic performance of their children. Parent meetings were time-consuming and many parents faced trouble attending meetings because of their work schedule, family issues, etc. With the introduction of School ERP software, parent notification becomes simple and straightforward. School ERP systems can notify parents about their children through mobile apps and SMS services etc. This way they are notified instantly, and it helps to keep updated about their child's academic performance in real-time.

SURVEY

There are many software's related to school management system are available in the market.

Like,

Applane

Applane is a simple easy to use cloud based school management software. Using this you can do all your institutional functions at a fraction of the cost.

It provides solutions to student, administration, financial management and other related functions.

There are many more software's are available in the market Like ClockErp, Edifice, Edsine, EduERP etc.

About This Project

Our Project is basically a Desktop application for PC, which can use by administrative department of any Institute to manage their institute's Student, Teacher and Financial data.

In Our Project there is a Login Panel through which user means admin can log in and do their stuff.

After Log In there are Many Functionalities available like add new user, add new teacher, new student and modify already added student and teacher.

Our Application works on local PC of any Institute so Student can access It and Modify their details but student's cannot access all functionalities of software but there is a restriction to use for student

and as well as for teacher. Only admin can access whole functionalities of application.

Basically this project helps institutes to reduce their paper work and also user interface of application will be good so user will enjoy to use it.

Also Data of Institute will store on local Database as well as on Cloud so there is not a chance to loss data.
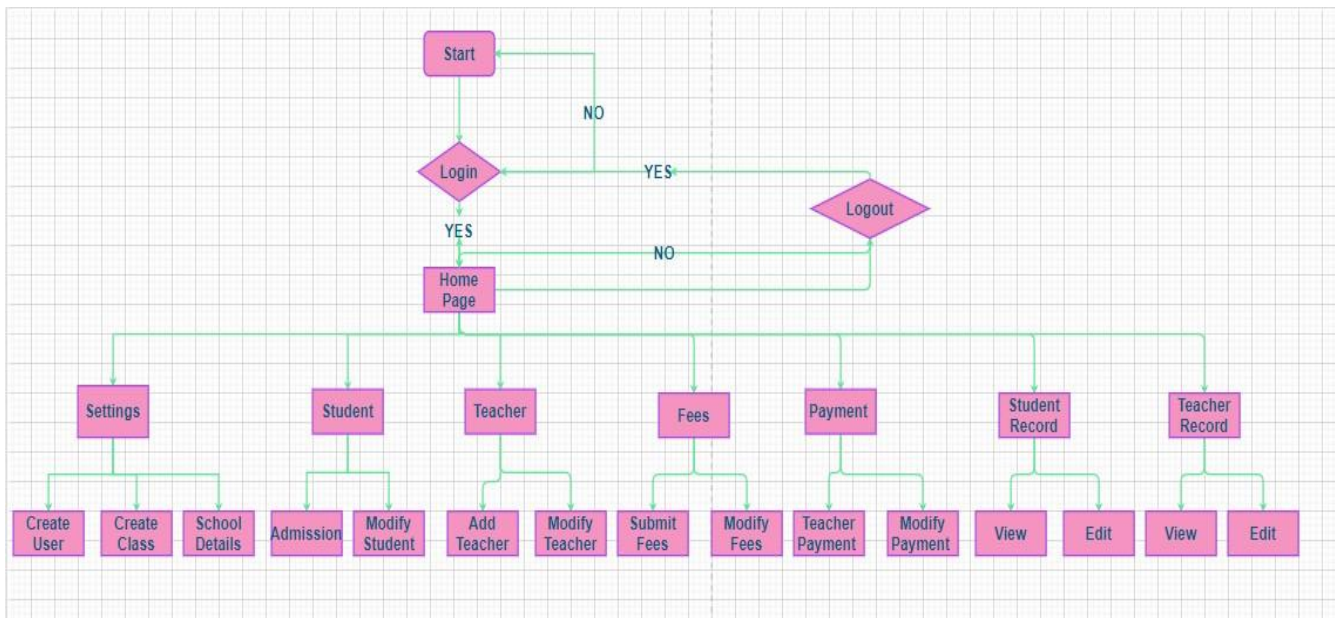
Features

➔ Admin Login
➔ Student Login
➔ Home Page
➔ Create User and Create Class
➔ School Details Page
➔ Student Admission Page
➔ Modify Student Information
➔ Add and Modify Teacher Information
➔ Submit and Modify Fees
➔ Teacher Payment's and Modification
➔ View Student and Fees Record
➔ View Teacher and Payment Record
➔ Logout Button

In this project we will implementing admin panel and related functionalities

Without Log in you cannot access any data so it is secure to use.

Diagram

Methodology

IDE: Eclipse

Front-end: JavaFX, Swing and AWT

Back-end: JDBC

Database: MySQL

Conclusion

In this project we will build Desktop application's administrative panel in school management system with the use of java GUI builder and MySQL database.

Reference

https://mindster.com/what-school-management-system-why-institutes-need-it/

https://pn.ispirt.in/list-of-madeinindia-school-management-software/

Blog

Veet Moradiya :

https://veetmoradiyaprojects.wordpress.com/2020/10/10/school-management-system-desktop-application/