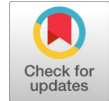


# Mobischool School Management System Using Android Application



Aniruddha P. Kshirsagar, Shradha K. Dhole, Pravin S. Patil, Rohini B. Kokare

**Abstract:** *Mobiles are used everywhere. It is beneficial to have android application of School Management system. This application includes database handling. Fully functional, flexible application and friendly interface is required for school management application so that it will be easily handled by parents as well as teachers. It is useful to get immediate alerts to the parents about notices [13]. Paper based activities are very costly and difficult to handle [12].*

**Keywords:** *Android , Web View*

## I. INTRODUCTION

Mobile phones are very helpful in day-to-day life. It is really required that there should be a school management application that the parents can easily operate through their cell phones whenever they needed. Android applications are easy to operate. These android application for school makes life advanced and easier for the teachers and parents.

Android applications identified with school give offices of participation, expenses report, Result examination and other general data about school and specific understudy. To give security and constraining specialist, application gives distinctive logins for parent, educator and director.

## II. LITERATURE SURVEY

SaurabhWalia[1]shown automated results ,fees ,presents-absents students. The system works over the internet. Students get alerts without any delay. The information present in the database is accessible anytime, anywhere. So, paper wastage is reduced. There is no need to keep track of records manually [12]. This system gives good performance while sorting the records of record.

S.R. Bharamagoudar et. al [2]implemented Online system for student . It is beneficial in automating the existing manual system. It also reduced paperwork. It reduced the man power. It gives accurate information always. Here, Security is also provided so that malpractices can be reduced. All the students, parents, faculty and higher authority can get the instant required information.

ManasiKawathekar,Kirti K. Bhate[3] developed an application that contains Event, Attendance, Notices, Report

age. which is the online applications. The application is used by understudies, educators .The functionalities given in it are understudy subtleties upkeep, discourse gathering, see board, participation and report age. More emphasis is on adding portability and automation..

BalazsBenyo,BalintSodor et .al [11] designed Student participation checking at the college utilizing NFC. In their answer the individual information for biometric identification are put away distributively and fills in as an official between the showed up individual and the understudy identifier utilized for enrollment. For biometric identification they pick the fingerprint identification as it is uncontrollably utilized and it is among the most least expensive ones.

Zhibing Liu, Huixia et. al [10] concocted one system. An application that centers around the capacity portrayal and examination of the framework, and program access to the database through ODBC (Open Database Connectivity.).They utilize visual essential 6.0 for programming.

JianyeLiu ,Jiankun Yu[8] expressed Research on Development of Android Applications. They gives an itemized presentation of Android application structure and the working foremost of Android applications. It is most popular and properly working system.

Vishwakarma R Ganesh [4] developed College Management System. This system used for creating applications to track attendance, viewing results. Students, parents will also see the attendance, results and syllabus. Also students can see alerts or notifications anytime. This speed up the result management process.

N. M. Z. Hashim [5] implemented development one System. This system will help to make ease the teacher in order to manage all the student data in the system. This system will help teacher to arrange student information and schedule easier and faster.

## III. IMPLEMENTED SYSTEM

In implemented system, contents are properly organized so that time required to search particular thing is reduced. System is more user friendly means that after installing the application, any new person can easily use this application. Marketing is the need of today's world. So this facility also added in the system so that more and more publicity will be done through this application so as to satisfy market criteria. Figure 1 shows that there are 3 logins namely teacher, admin, parent.

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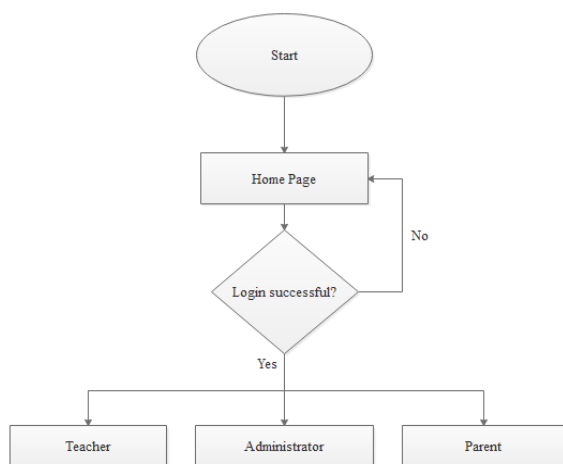


TABLE I. Figure 1. Flowchart

IV. SYSTEM MODULES

The module used in this system will be as follows.

1) Admin Module

FlowGraph of Admin in Figure 2 portrays stream of Admin module. At the point ,when Admin fill right username and secret phrase then he/she will enter in module. Otherwise, stream again goes to login page. In the wake of entering in Admin module, he/she have a few rights like entering instructor's subtleties and so on.

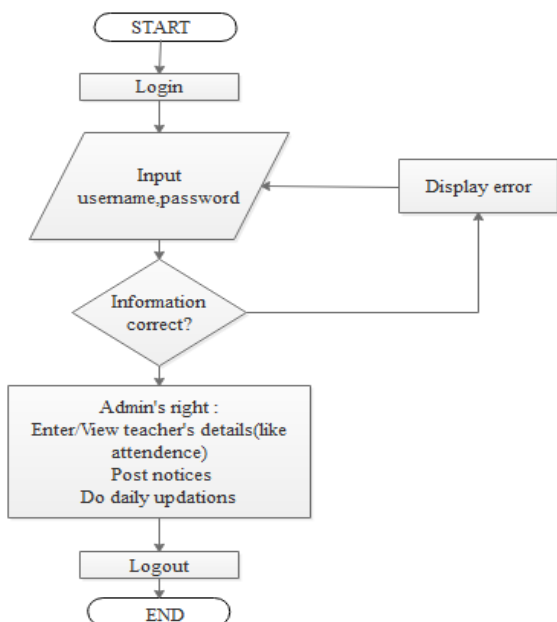


Figure 2. Flow Graph of Admin

2) Parent Module

Flow Graph in Figure 3 describes flow of Parent module. When Parent fill correct username and password then he/she will enter in module otherwise flow again goes to login page. After entering in Parent module, he/she have some rights like entering student's details, viewing notices etc.

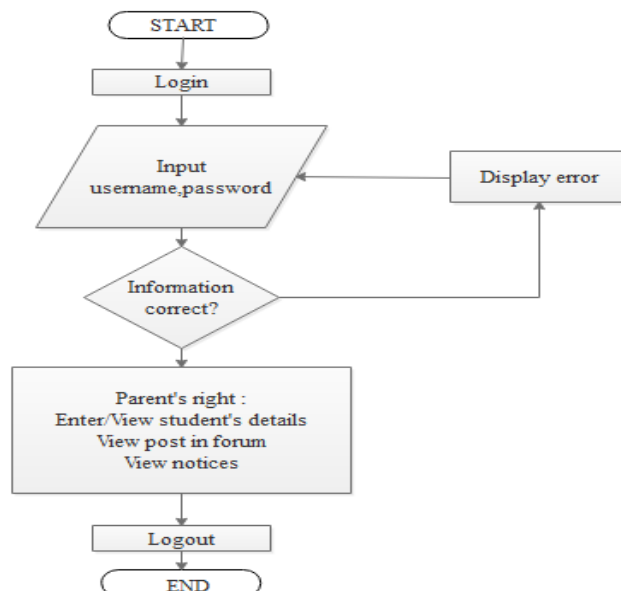


Figure 3. Flow Graph of Parent

3) Teacher Module

Flow Graph in Figure 4 portrays stream of Teacher module. At the point,when teacher fill right username and secret word then he/she will enter in module generally stream again goes to login page. In the wake of entering in Teacher module, he/she have a few rights like entering participation of students and so forth.

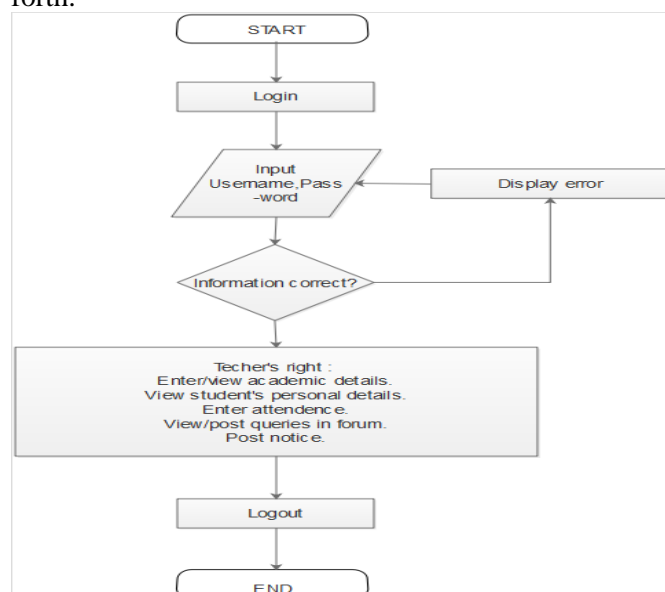


Figure 4. Flow Graph of Teacher

V. SYSTEM ARCHITECTURE

Figure 5 describes the architecture of the system. Android device sends request over the internet. Myserver processes the request and sends a response to android device via internet. All the required information is taken from the database at server side.

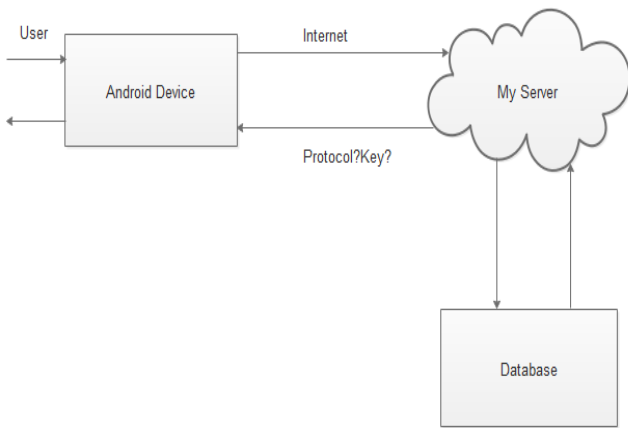


Figure 5. System Architecture

VI. TECHNOLOGIES

**Android :** Android is a working framework created by Google and OHA (Open Handset Alliance). It structured mainly for contact screen mobiles, for example, cells/tablets. Android is the mobile operating system.

**Android Studio:** It is nothing but IDE which is structured explicitly for Android Development. This OS is present on Window, Macintosh OS and Linux based frameworks. Is is having android virtual device (emulator) .

**Web View:** If you want to convert your web application or only a web page, you can do it by technology called as Webview.

VII. RESULTS AND CONCLUSION

Figure 6 is screenshot of website front page. Front page having multiple menu on header like home, about us, activities etc. There are multiple submenu like our history under main menu (about us).Also there is login facility link provide in menu.

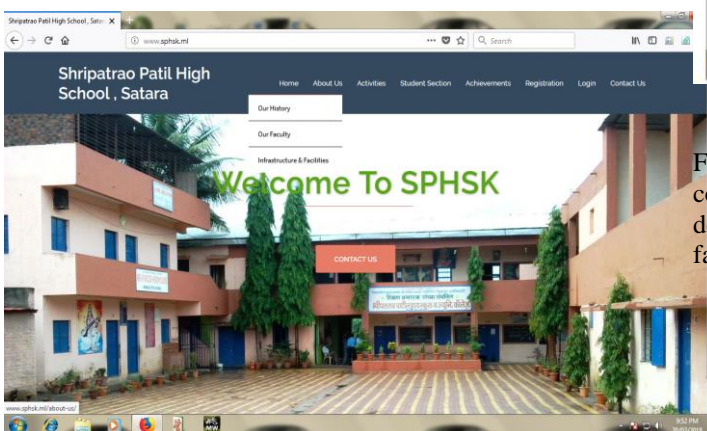


Figure 6. Home Page

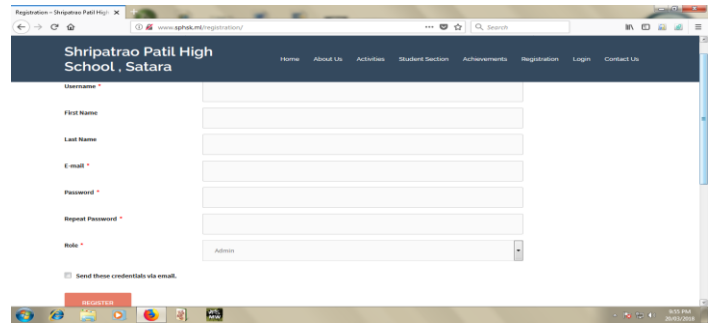


Figure 7. Registration Page

Figure 7 is a registration form that is accessible for only Admin login. Admin have authority to register the parents or teachers. In login form, there are some compulsory fields present like email password etc which are highlighted by asterisk(\*) in red colour. Figure 8 is screenshot of Login Page. This page contains three buttons like admin login, staff login, parent login. This is used to login to their own portal to access internal data. Only registered person can log into the portal. If any person tries to login using fake username then system will display him message like 'This username is not Valid'. Also ,there is visitor counter of the website as well as notification board which contain daily updated notifications of school.

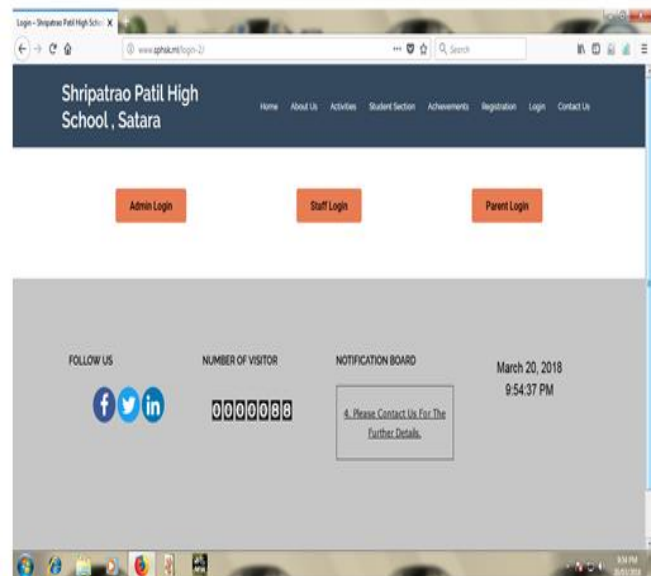
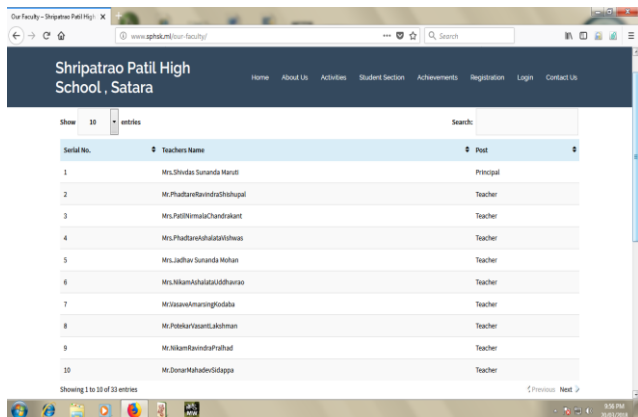


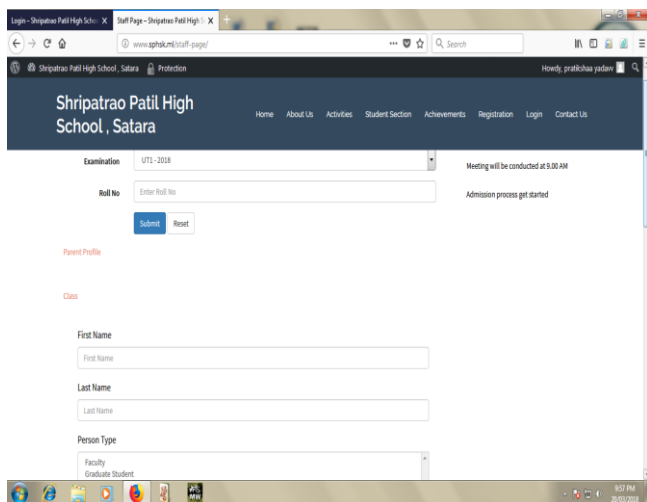
Figure 8. Login for Admin, Staff, Parent

Figure 9 is screenshot of school directory. This directory contain list of all working person in school with their designation. So that parents can understand who is principal, faculty member etc.



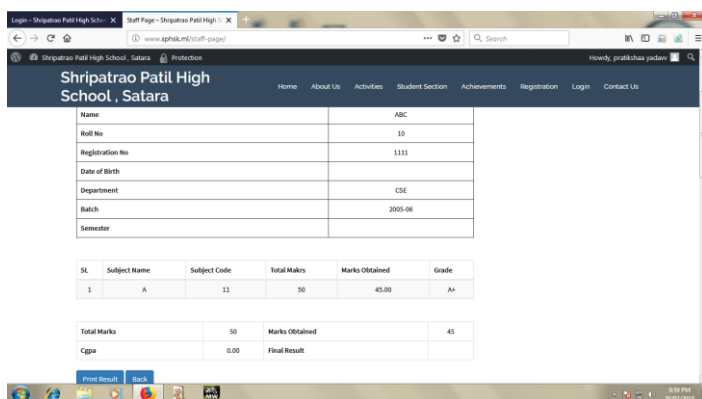
**Figure 9. School Directory**

Figure 10 is Result Page. It contains examination result section. When we choose the exam from dropdown and fill the roll no then it will show the result of particular student. On right side of this page there is today's notifications which are different for the parents and teacher. There is important part i.e. Parent profile. After clicking on this, parent can edit their own profile. They can update their photo, mobile number etc. Also there is facility to search any teacher's profile.



**Figure 10. Result Page**

Figure 11 is Screenshot of result generation. This type of result report will generate. It includes detail of the student and marks obtain in particular exam to that student.



**Figure 11. Result Details**

This project is computerizing the current manual framework. This application saves paper work. It is controlled and

checked remotely. It will surely decrease the labor required. All year's as one assembled data can be spared safely and can be gotten to whenever. So it is smarter to utilize this venture. All the staff, guardians and the executives that means heads can get the required data immediately. This framework can be utilized in the schools and colleges also. This system is accessible through mobile as well as website. An Android based versatile application for school is introduced in this system. The application offers unwavering quality, time funds and simple control to the clients. It very well may be utilized as a base for making and upgrading applications for seeing outcomes, following participation for schools or any work environment. Students and their parents will likewise see results, participation and educational programs subtleties utilizing this task. Additionally, students can see alerts from anyplace and whenever. It incorporates commercial of the school in this way fulfilling the promoting criteria to feature its offices to the recently entered understudies. This application provides high security.

## VIII. FUTURESCOPE

The system is developed as per the need of the client and this application is run on Android mobile only. This can be implemented on Windows, Blackberry platforms also. It is also possible to provide payment gateway so that parents can pay the fees remotely.

## ACKNOWLEDGEMENT

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## REFERENCES

1. SaurabhWalia and SatinderjitKaur Gill, —A Framework for Web Based Student Record Management System using PHP!, Himachal Pradesh, vol.3, August (2014).
2. S.R. Bharamagoudar, Geeta R.B. and S.G. Totad, —Web Based Student Information Management System!, Andhra Pradesh, vol. 2, June (2013).
3. ManasiKawathekar,Kirti K. Bhat,PankajBelgoankar,-An Android Application for Student Information System ||, Vashi, Navi Mumbai, vol. 4, September (2015).
4. Vishwakarma R Ganesh,-Android College Management System ||,vol. 5, April (2016).
5. N. M. Z. Hashim and S. N. K. S. Mohamed, "Development of Student Information System", UniversityTeknikal Malaysia Melaka, vol. 2, pp. 256-260, August (2013).
6. Jianye Liu and JiankunYu ,Research on Development of Android Applications, Fourth International Conference on Intelligent Networks and Intelligent Systems© (2011) IEEE DOI 10.1109/ICINIS.2011.40 pgs69-72.
7. Saad Ali, PrajwolNakarmi, and Sara Haghighi. Proposal: Birthday reminder Technical report, KTH, 2011. RohollahKarimi, Mohammad Kalantari,"Enhancing security and confidentiality in location-based data encryption algorithms, International Conference on Advances in Computing, Communications and Informatics (ICACCI), (2011).
8. Zhi-gang YUE, You-wei JIN, "The development and design of the student management system based on the network environment", International Conference on Multimedia Communications, 978-0-7695-4136-5/10 (2010) IEEE.
9. TANG Yu-fang,ZHANG Yong-sheng,"Design and implementation of college student information management system based on the web services". Natural Science Foundation of Shandong Province(Y2008G22), 978-1-4244-3930-0/09 (2009) IEEE.

10. Zhibing Liu, HuixiaWang,HuiZan “Design and implementation of student information management system.”(2010) International symposiumon intelligence information processing and trusted computing.978-0-7695-4196-9/10 IEEE.
11. Bal’azsBeny’ o, B’alintS’odor ,TiborDoktor and GergelyFordos “Student attendance monitoring at the university using NFC” IEEE on computer techonlogy- June (2010) .
12. Samkeet Jain,Radhika Garg,Vaibhavkrishna Bhosle,Lilash “ Smart university-student information management system” 2017 International Conference On Smart Technologies For Smart Nation (SmartTechCon) IEEE (2018) .
13. Dastgir Pojee,Farooq Shaikh,Vishal Kuvar,Fahim Rarh,Mohd. Abbas Meghani "Multi-platform college management framework" 2nd International Conference on Communication and Electronics Systems (ICCES) IEEE (2017) .

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