



Visvesvaraya Technological University

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Ref. No VTU / Aca. / 2018-17 / A-2 / 8368

Date: 17 DEC 2018

Circular

Sub: Implementation of Virtual Students Monitoring System.

Ref: Hon'ble Vice Chancellor's order dated 12/12/18

With reference to the above, it is hereby informed that BlueClimb Softech Pvt Ltd., has introduced a software on Virtual Student Monitoring System which helps the students, parents and colleges monitor the progress of the students and the academic report of teachers.

Hence, Virtual Students Monitoring System software may be adopted by the colleges affiliated to VTU.

By Order

Sd/-

REGISTRAR

To,

1. The Principals of all the Affiliated/Constituent/Autonomous Engineering colleges of VTU
2. The PG Coordinator, Centre for PG Studies, Muddemhalli, Belagavi, Mysuru & Kalaburgi
3. To the In-charge Regional Director, VTU's Regional Office at Bengaluru, Belagavi, Bengaluru, Kalaburgi, Mysuru for information and circulate to the concerned colleges among your respective region.
4. CNC, to upload


17/12/18
REGISTRAR

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Virtual Student Monitoring System



INTRODUCTION TO VIRTUAL STUDENT MONITORING SYSTEM:

The system was inspired by our team of passionate innovators delivering quality to clients always with a motive to exceed their expectations.

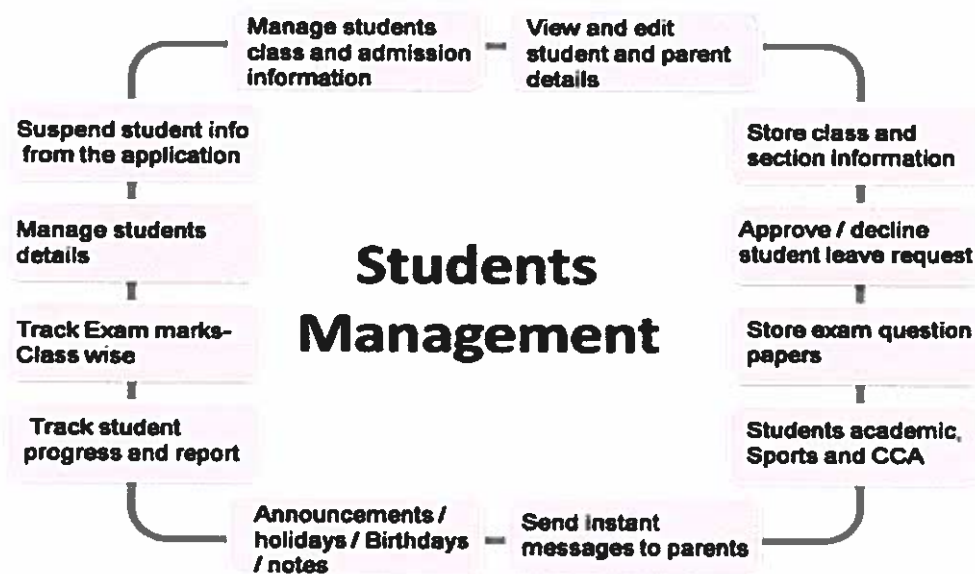
This system is completely a cloud based solution. So, you don't need to set up any server at your premises. The complete Solution is accessible from anywhere.

We are successfully helping few colleges to manage their student's profiles effectively with our services. The parents who are able to access their kid's academic profile at their ***finger tips are really happy as how this system works!***

This system is built using the most advance ***Security Algorithms*** to make sure your data is safe and only accessible by authorized users.

It provides a simple interface for maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. The creation and management of accurate, up-to-date information regarding a students' academic career is critically important in the university as well as colleges.

The unique feature of this system is its ***Parent Communication Module***, keeping parents into account as a part of education system in some or other way, it also includes a very important module called Parents Communication. It is designed to help parents to monitor their child's growth & development. This system provides a separate parents login with authentic password which helps parents to see various statistical reports of their child.





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It also deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details, placement details, **Parent updates via Software, SMS and e-mail**, student progression and other resource related details too. It tracks all the details of a student from the day one to the end of the course which can be used for all reporting purpose, tracking of attendance, progress in the course, completed semesters, years, coming semester year curriculum details, exam details, project or any other assignment details, final exam result and all these will be available through a secure, online interface embedded in the cloud based server.

It will also have faculty details, batch execution details, students' details in all aspects, the various academic notifications to the staff and students updated by the college administration. It also facilitate us to explore all the activities happening in the college, different reports and queries can be generated based on vast options related to students, batch, course, faculty, exams, semesters, certification and even for the entire college/university.

PROBLEMS OF TRADITIONAL SYSTEM:



**Where Are
Students,
Parents and
Teachers???**



For Students:



- ❖ Students do not get an analysis of their performance in their academics.
- ❖ They are unable to keep track of their attendance on a regular basis. If they need this information they need to run behind the lecturers.
- ❖ Unable to track their internal assessments marks when necessary.
- ❖ They are not getting support from there lectures after college hours.
- ❖ Getting offended whenever there parents visit the college as they are still not kids.
- ❖ Unable to get the required study materials after college hours.
- ❖ They are unable to plan and act wisely to get better opportunities.
- ❖ Missing out on important notice/communications which may be a key turning point in their career.
- ❖ Missing out on their schedules and timetable.

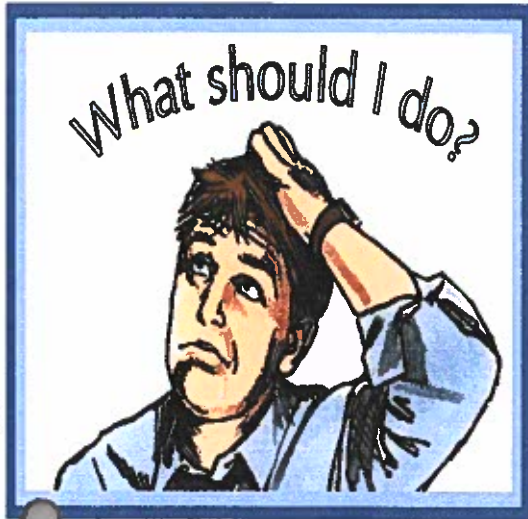
For Parents:

- ❖ Unable to get an analysis of their child's performance.
- ❖ Unsure which are the tasks which the teachers have assigned.
- ❖ Unable to get a real time internals marks analysis.
- ❖ Unable to track their children's attendance.
- ❖ They need to travel to the college to get an update on their children's performance in there academics.
- ❖ Unsure if their kids have any backlogs or year backs.
- ❖ Unable to communicate with their lectures frequently.
- ❖ They are unable to guide their kids in a proper way without all of the above mentioned details.



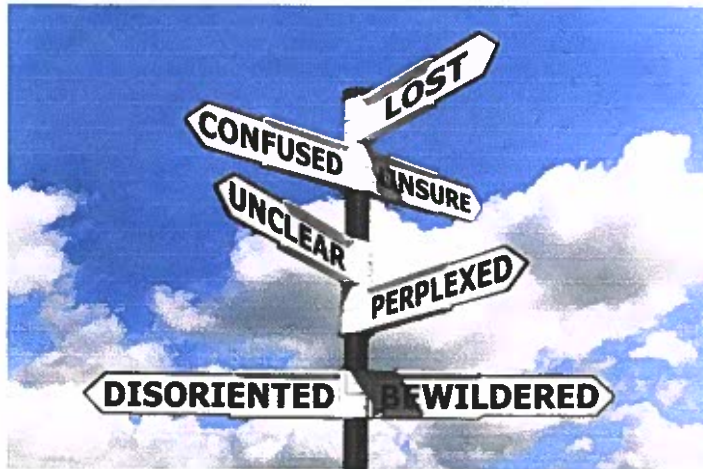


For Teachers:



- ❖ Unable to share an urgent update to all their students.
- ❖ Its time consuming for them to share student's attendance scores.
- ❖ Time consuming to share the Internal Assessments scores.
- ❖ Marking attendance manually is a time consuming process Which in turn hits on their productivity.
- ❖ Unable to get details of each of the students' performance in their academics.
- ❖ No platform to share study materials online.
- ❖ Unable to communicate any information to their parents.
- ❖ Even if the parents visit to get an update, due to teacher busy schedules they may ask them to come later. This may be embarrassing for both.

For Management:



- ❖ A standalone system
- ❖ The software may not require an IT professional for running it, but still some users may find it difficult to use
- ❖ There can be instances when your software may crash therefore, affecting some of your under process data
- ❖ If the internet gets disconnected for some reason, the software will not allow users to proceed hence, slowing down the entire administration process



- ❖ Sometimes the person sitting on the computer can feel over pressured when he/she is handling most of the procedures alone such as fee management, student enrollment and attendance
- ❖ If the computer crashes or stops working, your work will be put on an immediate halt
- ❖ Data is not secured and can be hacked easily
- ❖ Data not available at the finger tips.
- ❖ Management is the only aim here
- ❖ They mainly aim on collecting and storing data on offline PC/LAN

CASE STUDIES:

Case 1

Attendance shortage of students never known by guardians. This causes many students to fail to take exams. Over all aggregate also drops.

Solution

- ❖ Online live tracker stores and notifies guardians through app and automated calls of their child's progress report in live time
- ❖ This allows the guardian to take necessary actions to get their child back on track
- ❖ This improves student performance and academics

Case 2

Low internal Assessment leading to low aggregates, causing lost opportunities in campus recruitment.

Solution

- ❖ System provides transparency between teachers and guardians allowing guardians to know and track the progress of the pupil leading students to keep their scores above average.
- ❖ Which in turn leads to good job opportunities and a well settled life

Case 3

The guardians are not aware of the pupil getting a year back due to the communication and distance gap between the College/University and guardians.



Solution

- ❖ System eliminates this problem by bridging the communication gap allowing guardians to send text messages to concerned teachers and track their pupils academy

Case 4

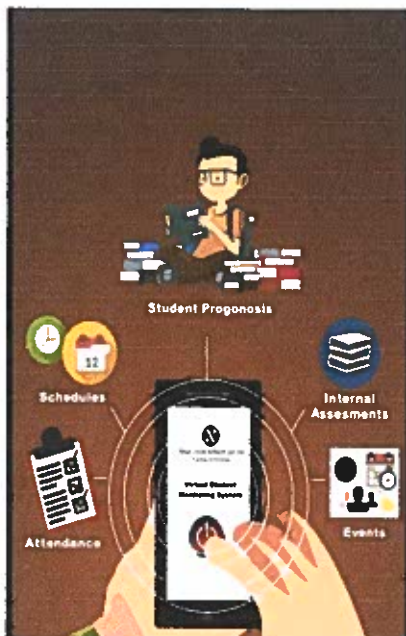
Inability to get faculty details in real-time like qualification, PhD verification status etc.
Lack of consolidated

Solution

- ❖ System holds a robust database that stores all employee data in one spot
- ❖ System also can create a consolidated report on any faculty at any time on the admins wish

BENIFETS OF PROPOSED SYSTEM:

For Parents:



Keeping parents into account as a **part of education system** in some or other way, Virtual Student Monitoring System also includes a very important module called Parents Communication. It is **designed to help parents to monitor their child's growth & development**. Virtual Student Monitoring System provides a **separate parents login** with authentic password which helps parents to see various statistical reports of their child.

Communication on both sides is extremely important. **Parent's involvement** in child's activity ensures them about the confidence they have in their child. The way in which any organization interact with parents affects the extent of parent's home involvement with their child's learning.

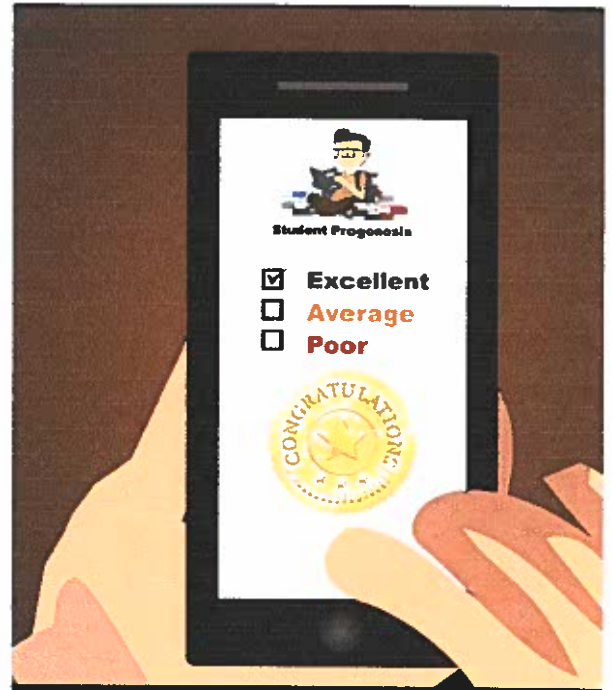
Not only academic but parents can also assess their child's **performance in curricular activities** such as sports activities, essay/poem writing, dance competition, etc. which helps parents to judge the overall development of the child.

Instead on a tap their finger they have access to their children's academic progress.



Key Functionalities

- ❖ Summary of student's grades
- ❖ Assignments
- ❖ Project submission
- ❖ Attendance
- ❖ Internal Marks
- ❖ Notifications
- ❖ Messages
- ❖ Current academic progress
- ❖ Pictorial representation of the academic progress of the students in dashboard



For Students:



The student module enables the students to use the application and know where they stand in terms of their academics performance.

The android application has a digital noticeboard which allows the students to get the information from the college right away and the students will have access to the same 24/7.

The app also consists of a notification area where the students get the information of any upcoming events/interviews which are happening in the college.

Whenever the teacher shares any important study materials, students can easily access these materials on the go.

Most of the students may get offended if their parents visit college to get an update on their children's academic progress.

As the application allows their parents to remotely monitor their children's performance, this removes the bottle neck on the students.



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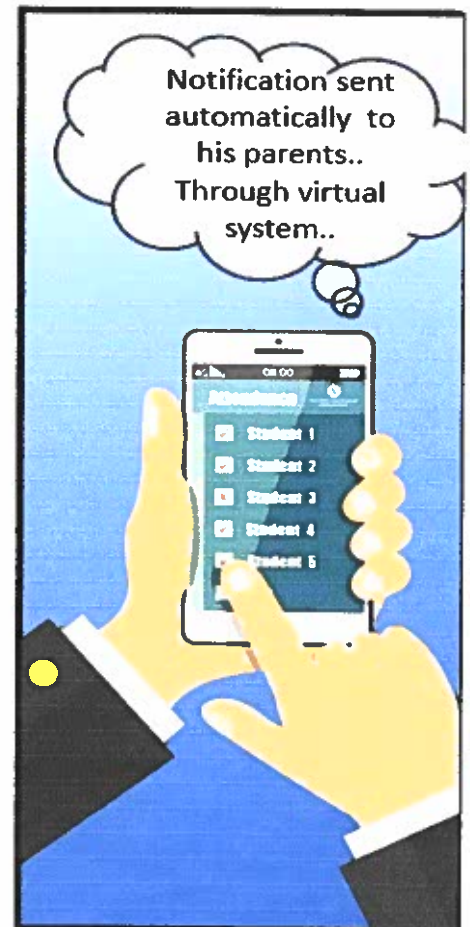
For Teachers:

The teacher's module helps the teacher to communicate any information of the progress of the students to their parents. It also helps the teachers to share important study materials to students via the android application.

Teachers can take attendance via the application and whenever a student is absent, the application triggers a notification to their parents right away which in turn helps the parents to cross check as where there child is at that moment instead of being in college.

Key Functionalities

- ❖ Area to update the course, subjects, class details.
- ❖ Records about Session start date and end date
- ❖ Area to update the Internal Assessments Marks
- ❖ To get the attendance of students.
- ❖ Area to upload study materials.
- ❖ Send Notifications to parents/students.
- ❖ Update notice boards.
- ❖ Share/Upload Study materials
- ❖ Graphical Representation of overall students' performance.
- ❖ Modify/Add Subjects and Class details.
- ❖ Upload Time Tables.
- ❖ Schedule Classes





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For Management



- ❖ Keeps parents up to date with their ward's progress in school.
- ❖ Integrated with Bulk SMS Software for sending specific SMS Alerts.
- ❖ Online Registration, easy follow-up and Admission.
- ❖ Better interaction between parents, teachers & school management.
- ❖ Efficient computing centralized storage, high memory and fast process.
- ❖ Integration of Academic Calendar, School Notices and other activities.
- ❖ High level security at application level user level and program level.
- ❖ **Parents get 24x7 accesses** to the pupil's academics.
- ❖ **Parents/Guardians are notified frequently with voice alerts.**
- ❖ Easily manage your colleges, universities and training institutes.
- ❖ Maintain student details, employee details, Parent Details.
- ❖ Manage different courses that you offer and maintain student batches.
- ❖ Manage library, student attendance and admission



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DELIVERABLES

- ❖ Android .Apkfile
- ❖ Domain names
- ❖ Automation sms
- ❖ Support and annual maintenance

FINANCIALS

The entire software and maintenance will be free of cost.

BENEFITS TO VTU:

- ❖ Zero expenses on VTU.
- ❖ Solving the communication gap between parents, students and teachers.
- ❖ Credits in installing the future of technology in a technological institute.
- ❖ Credits of solving most of the complex issues encountered by the engineering students.
- ❖ Helping students in their betterment and helping achieve their goal.