Online Student Performance Analysis System

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Abstract— **Online Student Performance Analysis System (OSPAS) provides a interface for school maintenance. It can used by educational institutes or coaching classes to analyse the student performance easily. The creation, analysation, up to date information regarding academic career of a student is critically very important in an institution. Online student performance analysis system deals with all kinds of student details, course details, class details and academic related marks details and reports. It keeps track on all details of a student from the day one to the end of the academic which can be used for all reporting purpose. I also facilitate all student's details in all aspects the various academic email notification to the parents about the performance updated by administration. Different reports, feedback and queries can be generated based on vast option related to student, teachers. Course and even for entire college.**
Keywords: *Online Student performance analysis system (OSPAS), Academic performance (AP), Subjects*

I INTRODUCTION

Students are the main asset for various educational process. Students' academic performance play an important role in producing high qualities education with its academic achievement. Academic performance (AP) achievement is the level of achievement of the students' educational goal that can be measured and tested through examination, assessments and other form of measurements. However, the academic performance achievement varies as different kind of students may have different level of performance achievement in an institution.

The goal of online student performance analysis system is to develop software produce high quality software. Superior quality software has characteristics like low cost, reliable and user satisfactory. For any school, college or other educational institute, students are an important asset in order to of great quality who excel in academics, practical knowledge, self-development and innovative thinking. [1] To achieve this, it is become essential for every school, college or any other educational institute to analyse the performance of students. Academic performance (AP) can be measured by conducting various examinations, assessments and other form of measurements. However academic performance may vary from student to student as each student has different performance. The assessment record in OSPAS has subject ranking. Managing the grades of an entire class in its learning makes the grading process easier, and the teachers have a clearly-set-out overview what all efforts are needed for the final assessment is to be decided. have one assessment record for each course into which course participants are automatically added.

- Online Student Performance Analysis System (OSPAS) provides a simple interface for maintenance and grading student performance over the cloud.
- It can be mainly used by educational institutes or colleges to maintain the records and performance analysis of students easily.
- The creation and management of accurate, up-to-date information regarding a students' academics without having a fear of data loss.[3]

It tracks all the details of a student from the day one to the end of the course which can be used follow:

- For all reporting purpose, *Reports* communicate information which has been compiled as a result of research and analysis of data and of issues. *Reports* can cover a wide range of topics, but usually focus on transmitting information with a clear *purpose*,
- Tracking of weekly test scores, entered by the teacher for a particular class.
- Student record is needed for any assistant will be entered in the feedback form
- Progress in the course, one the student is currently enrolled in, or officially registered for in an upcoming term. *Courses* the student has taken in the past appear on the official transcripts and should not be entered on the application.
- Class ranking of student, is a measure of how a *student's* performance compares to other *students* in his or her *class*. It is commonly also expressed as a percentile.
- Subject ranking of student with exam details etc.
- Different reports and Queries can be generated based on vast options related to students, exams, result, subject grading.

Need of OSPAS
- Effectiveness in grading & result creation was found to be strongly related to student improvement in essay scores, with the influence of *grades* and praise more complex. Overall, detailed, descriptive feedback was found to be most *effective* when given alone, unaccompanied by *grades* or praise marks. The *results* have implications for theory and practice of assessment.
- Providing the online interface for ranking of students, it's a simple *interface* that's free to teachers and it doesn't require any advanced planning or setup.
- Increasing the efficiency of college record keeping, Computerization of these, The result was an *increase in* the effectiveness and *efficiency* of the advising process, better *record keeping*, and better use of available student data for statistical purposes. The continuous uptick of information and data flooding educational institutions shows no signs of easing up. [1]

- Decrease time required to access and deliver student performance records. Providing the online interface for *students*, faculty etc.
- Increasing the efficiency of college *record* management.
- *Decrease time required* to *access* and *deliver student records*.
- To make the system more secure. &. *Decrease time spent* on non-value-added tasks.
- User friendly for the organization. Excellence in Teaching and Learning. Meeting arranging Equity of *Access* and. *Student* Pathways.
- Restructuring for Quality & Diversity. Excellent process enabling *delivery* of system objectives has set out an overarching System *Performance* Framework for Education for the *period*.
- Decrease time spent on non-value-added tasks. [2]
- Different reports related to student performance can be generated for parents easily.
- This project is sponsor project for implementation in PARAMOUNT ENGLISH SCHOOL, Aurangabad as per their reequipments which have been stated to maintain the school test record and monitor the week points of the student. It is also helps to registration any complain or feedback from the parents.

II OBJECTIVES

An objective is a custom software and solutions development consultancy. We specialise in office productivity, document management and remote monitoring and control solutions. Our staff are trained and experienced with the latest technologies in order to maximise the resource capabilities and productivity for our online student performance analysis system.

Here is a list of objectives that are identified for development of the system:

- To develop a system for students' performance analysis we first need to gather what all record need to be store regarding a student.
- To identify the factors that affects the students' performance. It is limited only to top management can able to view student performance
- To develop a student monitoring tool which will counsel students in order to provide them an insight regarding their academics & areas where improvement is required.
- To assist faculty in keeping track of the students' progress throughout the semester and to generate score card for the same.[2],[3].
- The proposed performance analysis system allows teacher to retrieve the students' previous month performance in school and increase the understanding of factors that contribute to students' performances in present class taken by students.

III LITERATURE SURVEY

The features of the existing system is include a user login creator to provide user interface, student performance analyser, student development card, achieved credit, passing criteria card and wise student performance attribute card.

Web Based Student Information Management:

The design and implementation of a comprehensive student information system and user interface is to replace the current paper records College Staff are able to directly access all aspects of a student's academic progress through a secure, online interface embedded in the college's website. The system utilizes user authentication, displaying only information necessary for an individual's duties. Additionally, each sub-system has authentication allowing authorized users to create or update information in that sub- system. All data is thoroughly reviewed and validated on the server before actual record alteration occurs. In addition to a staff user interface, the system plans for student user interface, allowing users to access information and submit requests online thus reducing processing time. All data is stored securely on SQL servers managed by the college administrator and ensures highest possible level of security. The system features a complex logging system to track all users access and ensure conformity to data access guidelines and is expected to increase the efficiency of the college's record management thereby decreasing the work hours needed to access and deliver student records to users. [6]

Objectives

Providing the online interface for students, faculty etc. Increasing the efficiency of school record management. Decrease time required to access and deliver student records. To make the system more secure. Decrease time spent on non-value-added tasks.

Functional Requirements

Student information management system aims to improve the efficiency of college information management, and the main function is managing and maintaining information. It will be ensured that the information entered is of the correct format.

Performance Requirements: The proposed system that we are going to develop will be used as the chief performance system for helping the organization in managing the whole database of the student studying in the organization. Therefore, it is expected that the database would perform functionally all the requirements that are specified.

Safety Requirements: The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup.

Security Requirements: We are going to develop a secured database. There are various categories of people namely Administrator, Student who will be viewing either all or some specific information from the database.

IV PROJECT FLOW DIAGRAM

The system OSPAS is developed as per the requirement for PARAMOUNT ENGLISH SCHOOL, AURANGABAD. In the above figure the flow of diagram represented as follows:

Login authority is to administration section, to exam section. and the faculty who are dealing with the student performance in an institution. The OSPAS is the system online based for the managing the record of result of each and every

student. If needed the system will generate the emails to their respective parents for the improvement of the student needed.
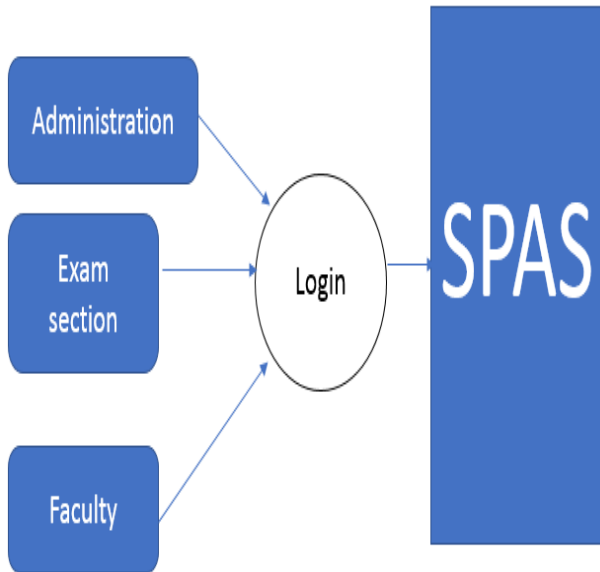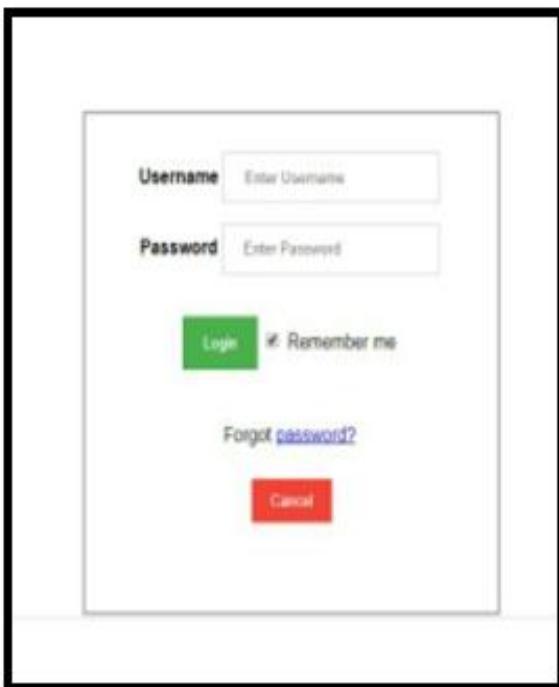

Figure No 1: Proposed system flow diagram
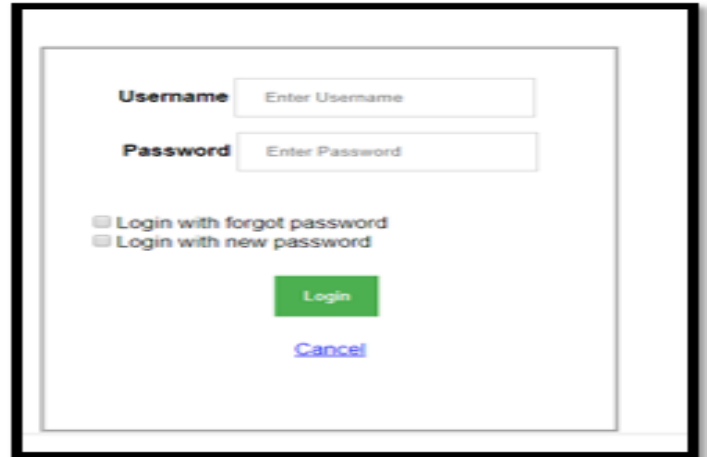
IV PROPOSED SYSTEM

Login Form:

Authorized administration, exam section and other faculty members are assigned with the username and password to access the OSPAS for PARAMOUNT ENGLISH SCHOOL.
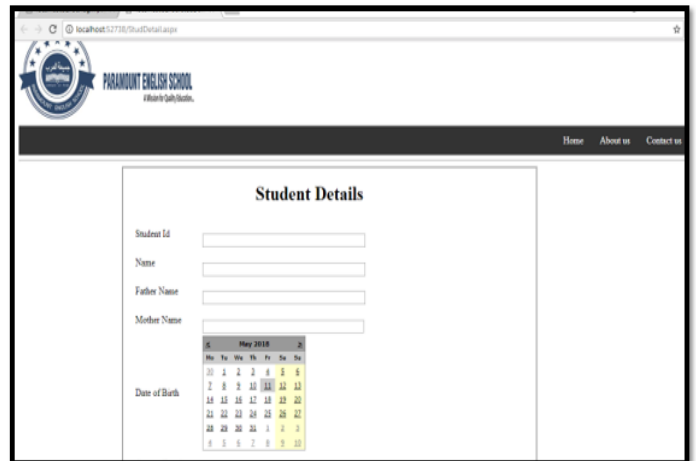

Screenshot No 1 Login Form

Forgot Password Form:

Forgot Password Form will help the admin to recover the password for the OSPAS while accessing the system to enter in the system.

Screenshot No 2 Forgot password.
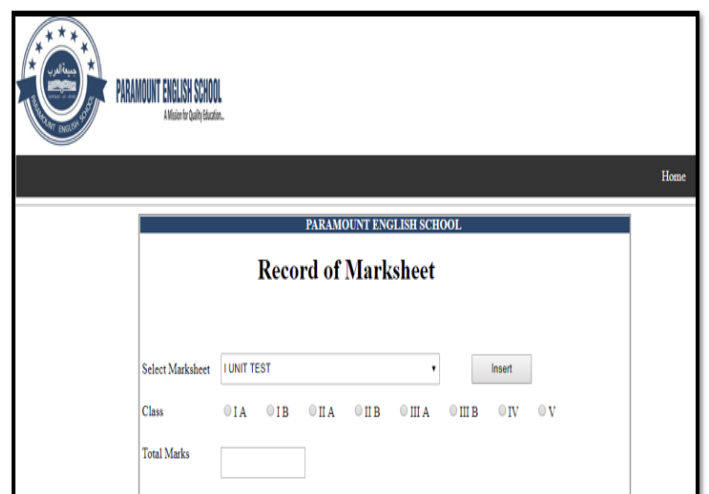
Student Details Form

Here in the administration department will fill up all the current year details of the student who have been admitted in class for recording their marks and academic performance.

Screenshot No 3: Student Detail Form
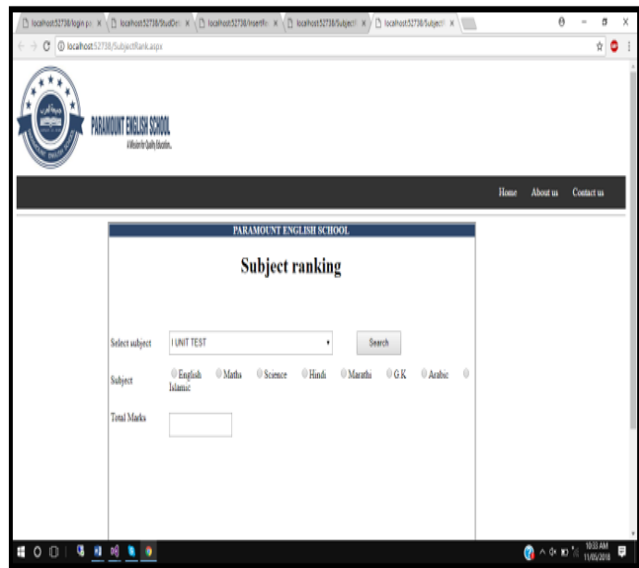
Record of Marksheet

Here the entries are generated for the record of marks as per student performance in the sheet

Screenshot No 4: Inserting Record of Marksheet

Subject Ranking

Here the record is being search for the particular subject wee the data is being entered.

Screenshot No 5 : Subject Ranking.

V CONCLUSION

This student performance analysis system is developed for the use of PARAMOUNT ENGLISH SCHOOL as per their requirements it contains all the details for the organization and fulfills all the requirements.

ACKNOWLEDGMENT

REFERENCES

[1] IJCSMC, Vol. 5, Issue. 4, April 2016, pg.118 – 122 Online College Management System, Kartiki Datarkar, Neha Hajare, Nidhi Fulzele.

[2] Student Performance Analysis System (SPAS) Chew Li Sa, Dayang Hanani bt. Abang Ibrahim, Emmy Dahliana Hossain, Mohammad bin Hossin Faculty of Computer Science and Information System Universiti Malaysia Sarawak (UNIMAS)

[3] J. Shana, and T. Venkatacalam, "A framework for d ynamic Faculty Support System to analyse student course data", International Journal of Emerging Technology and Advanced Engineering, Vol. 2, No. 7, 2012, pp.478-482.

[4] Quality Assurance Division (2010). InMinds: Intelligent Mining and Decision Support System. Universitiy_Malaysia_Sarawak,_UNIMAS_[Online]. Available:http://www.qad.unimas.my/Function/ICT-Compliance/inminds.html

[5] SPA (2013). What is SPA Standard? SPA Student Performance Analyser [Online]. Available: https://www.studentperformanceanalyser.com.au/spa/about.ht

[6] ISSN (Print)   : 2319-5940 ISSN (Online) : 2278-1021 International Journal of Advanced Research in Computer and Communication Engineering Vol. 2, Issue 6, June 2013,Web Based Student Information Management System.

[7] Zhi-gang YUE, You-wei JIN, "The development and design of the student management system based on the network environment", 2010 International Conference on Multimedia Communications, 978-0-7695-41365/10 2010 IEEE.

[8] 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.

[9] M.A. Norasiah and A. Norhayati. "Intelligent student information system". 4th International conference on telecommunication technology proceedings, Shah Alam, Malaysia, 0-7803-7773-7/03 2003 IEEE.