



IJIRCCCE

e-ISSN: 2320-9801 | p-ISSN: 2320-9798



INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH

IN COMPUTER & COMMUNICATION ENGINEERING

Volume 10, Issue 4, April 2022

ISSN INTERNATIONAL
STANDARD
SERIAL
NUMBER
INDIA

Impact Factor: 8.165



9940 572 462



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ijircce@gmail.com



www.ijircce.com

Analytics of Student Database

Roni Bhakta, Apoorva Shirnal, Shrushti Malvadkar, Yurvraj Basutkar,

Aditya Sonawane

Students, Department of Computer, A.G.Patil Polytechnic Institute Solapur, Maharashtra, India

ABSTRACT: This website provides us analytics of student database. In which we get analytics on student attendance, Semester marks and many more. This software maintains students information which can be accessed by principal and collage staffs.

This website enables principal and teacher to gain access of students overfall academics data over internet, which is easy to use and provides real time data/analytics, parents can accessed their children's report any time from website homepage with teachers personal remarks on it.

KEYWORDS: Analytics (key words)

I. INTRODUCTION

Analytics of student database it is a website .Which provides analytics interface and features to maintain students information. It can be used by schools, university or colleges to maintain the records of students easily. The get access of students detailed information, Real time analytics of students. Student analytics system deals with all kind of student details like :-

Attendance, Semester marks, teachers personal ratings on the basis of semester marks, Improvement remarks and a comment box where staffs can write the remarks of the student and see how much improvement is required for particular student by seeing the improvement percentage. The student portfolio gets shared to there parents through pdf through website homepage or can be shared by using email. OTP verified attendance is also integrated in this website to get real time verified attendance, OTP are manually entered by the staffs .

II. RELATED WORK

Different types of websites are developed for students data. There are many huge and popular software are used to keep huge data in that software like Microsoft Excel. It is software used to stored large amount of data.In which we can stored teacher and students database.

LEGO is a manufacturer of toys sponsors multiple STEM competition or programs for students. These programs are available for students from 6 to 25 ages in which students can focus on their ability to use their math, science and skill as well as focus on creative to build models and robots

In research it has shown that by using data of instructional decisions can used to improve the performance of students. Schools collects multiple information of students about their attendance, marks, performance etc. When it comes to improvement of instruction and learning it doesn't look quantity of information that counts but how the information is used. SEDL Southeast and Texas Centers offers assistance. Professional development for their particular given regions to help educators to use information. Databases helping for teachers for use results , students works like academic related works . It includes training like Response to Intervention and the Professional teaching. In learning cycle helps schools or collage staff to identify the areas for improvement and practice them.

OBJECTIVE AND APPLICATION:

1. To access student detailed information through inter which is easy to use.
2. To get analytics of all student academic performance.
3. We can manage information about attendance, marks in exam.
4. Can track all details of students.
5. Can share student performance to their respectively parents.
6. GeneratePDF of the marks sheet of students with teachers personal remarks on it.
7. This website is designed for reduce the efforts of collage or school staff.
8. Staff can remark the student.
9. Get details of students in forms aof graph.
10. Easy to use and access these analytics of studentdatabase 24/7.
11. OTP verified attendanceof students.
12. Can keep all records of students at one place.
13. Parents can accessed their child report any time from websitewith updated teacher remark on it.
14. Improves The General Comfort of Staffs to get information about the students remarks, semester marks etc.

WORKING:

This website is for principal and college staffsto access every student data over internet .Can also check students attendance, Semester marks, etc by the principal, HOD and any other subject teacher. Login module is used to check whether the user is an authorized or not. For this user are given username and password.

This module will help teacher to manage the student's data. We can login in this website. There is time limited attendance link and OTP will be shared to students' every day by particular subject and OTP will be destroyed after certain time limit in this website.

This website provides us a simple dashboard to get data of every student and also their performance in Semester marks or exam.

It will also display the student's remarks based on marks or on their performance which they have gained. In which teacher or any staff can add point like Average or Good to students depends on performance of students. Teacher can see the ratio of every student how much the students need to improve in subjects. And is that students are eligible for next semester exams on bases on their attendance, Semester marks. Based on this data, teacher can share report of students to their respectively parents. And parent will get report of their child with teacher's personal remarks on it. Parents can access their child report any time from website with updated teacher remark on it.

Languages used to develop this software are as follow:

- 1.HTML
- 2.CSS

3.JAVASCRIPT

4.NODE JS

5.MYSQL

E R DIAGRAM:

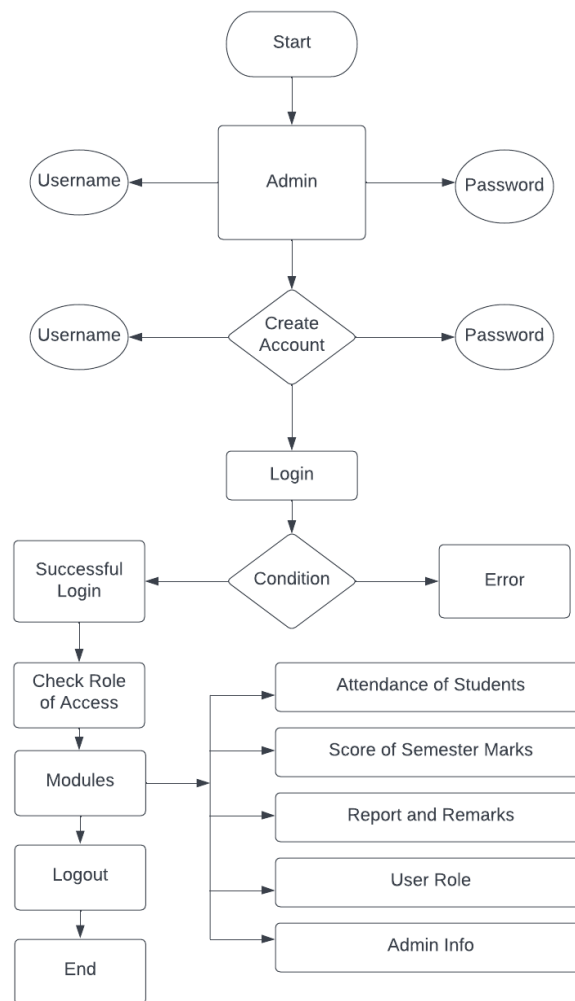


Fig 1. Flow chart of website

Diagram of website how the website will start .We can understand the process of website by seeing this diagram. First the admin will login with username and password .If the login is successfully done then we can enter the website .We can access students data. There are many manage modules in website as shown in diagram. Module like:

- Manage attendance
- Manage semester Mark
- Manage report
- Manage role of user
- Manage system Admin

Manage user permission

MODULES:

1. Principal Profile:
 - a. Analytics of student database.
2. Student portfolio:
 - a. This helps staffs to get detailed info about every student in the class.
3. Attendance management:
 - a. To record daily attendance of student subject-wise.
4. OTP Attendance marking system:
 - a. OTP will be manually generated by staffs and student will be mark their attendance from attendance page as per the department.
5. Performance remarks:
 - a. Teachers can add remark to students reports which can be accessed from market-sheet tab of home page for everyone.
6. Semester mark and attendance Analytics:
 - a. Every semester mark and attendance AVG details will be displayed in the form of graph on principal Analytics home page.
7. Student account create link:
 - a. Students will register their basic details from the registration link from home page.

III. EXISTING SYSTEM

There are a few features from the existing systems that are employed during the design and implementation phase of the proposed system. These features and functionalities include the user interface, students' performance prediction, illustration displays and report generation. A good user interface provides an userfriendly interface as it is easy to be navigate and not complicated. Meanwhile, the students' performance prediction is included into the proposed system to make sure the objectives are achieved. The system architecture has a web services, a database server and the user as its components. System must use 3G,4G or Wi-Fi network for internet connectivity to ensure better performance. The user will login to the webpage through an computer or laptop. The user-type is verified with the database server and access is given to the appropriate user. The web application also can be used to login and perform certain operations such as ensures that internet is on.

MAINTAINABILITY:

- 1.Data will be updated manually
- 2.Admin panel
- 3.Data secures automatically

ADVANTAGES OF SOFTWARE:

1. Every semester marks and attendance details will be displayed in the form of graph on principal Analytics home page.
2. Attendance links can be accessed from home page for every students.
3. Student semester marks can be accessed from teachers profile in one place.
4. Keep all students record at one place
5. Attendance report can be filtered course and batch wise
6. Report of student can be share to there parents anytime and students report link will be share to parents.

IV. RESULT

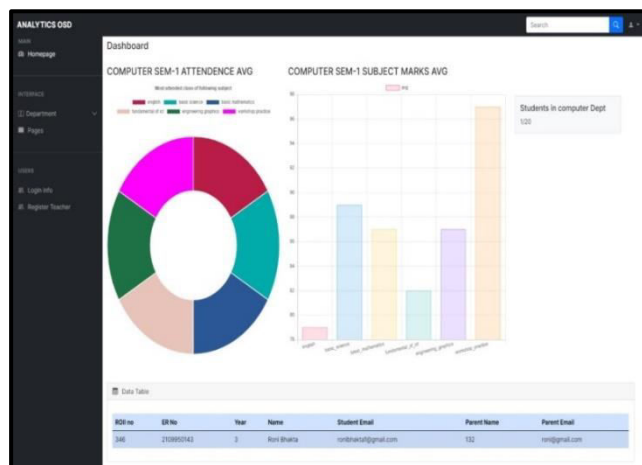


Fig2 Average of SEM-1 Marks and attendance

V. CONCLUSION

Getting data under one roof. Providing every students personal portfolio, Provide confidential authentication security, reliability and integrity.

VI. FUTURE SCOPE

1. It can be used by for different kinds of institutes , schools and universities to maintain there students data and performance.
2. Use different language for database.

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SJIF Scientific Journal Impact Factor

Impact Factor: 8.165

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