Aero Web Software

**Ayushi Sheoday[1], Harsh Shahu[2], Aman Choudhary[3], Chaitail Pachekar[4], Mohit Tiwari[5],
Anurag Jichkar[6], Diksha Gabhane[7]**

Students, Department of Computer Science and Engineering[1,2,3,4,5,6]

Assistant Professor Department of Computer Science and Engineering[7]

G. H. Raisoni Institute of Engineering and Technology, Nagpur, Maharashtra, India

Abstract: *The school's ERP system provides a straightforward interface for maintaining individual students, standards, educators, libraries, and former info. each academy typically has some customary and intellectual modules like subjects, exercises, halls, projects, and options. Manually managing these departments and former modules is a fragile, half-hearted and dear task. Therefore, we tend to are aiming for an ERP system for the academy here. Therefore, here we tend to propose an ERP system for colleges. Our school's ERP system has all the knowledge concerning students, teachers, activities, libraries, communication departments and alternative revered info. this method permits directors to feature student, faculty, and e-learning details. Our system permits college members to enter or enter student attending in an exceedingly information in order that students and school members will read it later. A student will read attending via another student's ERP login. directors will transfer timetables for various departments in preparation for the communication. The timetable is exhibited to college and students on the online portal. These systems are extraordinarily convenient as a result of they need a straightforward program and a strong knowledge management system?*

Keywords: Admin, School, Database, Teachers, E- Learning, Students, ERP system

I. INTRODUCTION

The Enterprise Resource Planning (ERP) School Web Software is a sort of Web software program that integrates all of the modules and capabilities of a school gadget right into a unmarried gadget and is processed through an administrator and a legitimate person ID and password. As you know, faculties are made up of various standards. Sections on challenge matter, rate management, libraries, interest management, etc. Having an internet elegance lets in you to engage with every different from a reputable gadget through having an ERP portal with a legitimate person ID and password. The predominant element in a whole software is to offer a Stoner-pleasant interface and an critical records system that simplifies this gadget. The college's ERP software computerizes all assignments of the academy gadget, streamlining handiest managers and invading handiest students and leaders. The Academy's working gadget ERP reduces maximum of the preceding lethal paintings achieved to manipulate the Academy's gadget. Once the legal character approves the info to the gadget, different customers do now no longer must manner the separate sections. The govt frame by myself is enough to request all reviews and facts of the gadget. We additionally provide safety in line with the customer's request. The predominant element is that our system reduces deadly paintings in huge problems.

It can be helpful such that

- Records are always updated.
- Manpower is decreased or reduced.
- Large amount of data regarding college and their modules can be stored.
- Accurate and perfect calculations are made.
- Maintenance of file is efficient and flexible.

II. AIM OF THE STUDY

To study MySql, Core and advanced PHP with codeigniter.

We were introduced to PHP and MySql but weren't aware how to implement online and offline web software. To understand My SQL database management service.

Hence, this is the reason to work on Web Software to understand online and offline development of web based software & gain knowledge about codeigniter, Laravel framework and how companies implement it through agile methodology.

Investigate the influence of non-uniform cup support and varying the orientation of the component in the cavity on deformation. Examine the influence of errors during reaming of the acetabulum which introduce ovality to the cavity. Determine the relationship between changes in the geometry of the component and deformation for different cup designs. Develop three dimensional pelvis models with non-uniform bone material properties from a range of patients with varying bone quality. Use the key parameters that influence deformation, as identified in the foam models to determine the range of deformations that may occur clinically using the anatomic models and if these deformations are clinically significant. Data sets will be extracted from the known historical record of tectonic-plate movement Data sets will be extracted from astronomical tables detailing the various alignments of the major planets covering the same period as data from the geological record. The data from both sets will be synthesized to establish if correlation points exist between major geological events and planetary alignments.

III. LITERATURE SURVEY

ERP is stands for Enterprise Resource Planning. The enterprise resource planning (ERP) is business management software or the system which is typically used to the manage core departmental data of respective business. The enterprise resource planning (ERP) system track business resources:— raw materials, production capacity, cash and the status of business commitments like: purchase orders, payroll and orders .The application that make up the system share the data across the various departments (manufacturing purchasing, accounting, sales etc.) That is provides the core data. The ERP facilitates information flow between the business function and manages connections to outside the stakeholders.

The ERP System is an online web based system which implements an user friendly and attractive interface System. The aim for the deployment and implementation of this system is to replace the manual system of schools with an automated web based system. This School ERP system also the manages data accurately and efficiently which is stored over a long period of the time. The ERP System provides single access point to all teacher is system of schools. In the previous systems of all the departments are worked independently and separately. If anyone want to the access that data collectively then it's not possible with such the systems.

The existing system is also dependent on students, if the students are absent. Then performance of student will be affected. Due to the huge volume of the data, a lot of the problems are involved in maintaining, updating and retrieving selected information. Since previous system is totally maintained manually, some of the difficulties involved in the existing system are as follows:-

1. It is redundancy of the data.
2. It's difficulty in updating the data.
3. It is non-centralized data.
4. The delay in retrieving information.
5. The problem for keeping the data.
6. It is not proper retrieval of information.

IV. METHODOLOGY

Aero Web Software manage organizations day-to-day business activities, such as accounting, finance, procurement, project management, supply chain, and manufacturing. It works via a central database. Users look at dashboards to view real-time data across different business units such as sales, supply chain management and personnel. ERP systems work by using a defined, standard data structure.

ERP short for enterprise resource planning is an integrated system of software applications that allows an organization to manage its business processes using a centralized relational database. It allows institute to see a snapshot of how efficiently its key functions, hence the inventory levels or sales, personnel are working together. By doing so, it can better plan how to use its centralized resources across the enterprise -- hence, ERP.

ERP systems typically has dashboards connected to a central database that let users(students) look at real-time data across different business units. Depending on the sophistication of the ERP vendor, individual modules may have numerous submodules that can be added to reflect how your business operates.

It helps us because multiple applications are integrated in an ERP system, the team take orders over the phone can see how many widgets are left in inventory at any given minute -- even accounting for online orders that bypass customer

service reps. Development team is looking at the same data and knows whether or not to ramp up assembly on the line. The trusted suppliers are automatically notified when parts are low. And shipping can account for each item being shipped and when it arrives at its destination.

ERP software integrates modules that once were disparate purchased applications, which reduces capital and operating expenses. The greatest benefit of an ERP system is real-time visibility of your daily operations, providing up-to-the-second information on available resources and the progress of orders and initiatives. That visibility improves operational efficiency and profitability. And that visibility can be extended so that suppliers, partners, carriers and other trusted parties can share data.

Functions that previously had to be performed manually can be done in one fell swoop in an ERP system

An ERP system is built upon data, so data migration from existing databases is crucial. Migrated data must be purged of irrelevant, erroneous and duplicate matter.

There are many challenges in higher education sector such as integration among different departments, unites, and systems, which may lead to a deficiency in interdepartmental cooperation and effective communications. Difficulties to access to real-time information is another major challenge in higher education sector that may interrupt many critical decision-making processes. Agility in response time is crucial to higher education sector due to the timeframe for some operations such as class scheduling, registrations, teaching, and examinations. However, ERP system is able to resolve many difficulties in higher education sector by hooking up all departments, unites, and subsystems into a single database that operate with one entirely integrated system.

Implementing ERP system in higher education sector is deemed as a great challenge; this is mainly because ERP system initially designed for manufacturing sector and later it has modified to serve other sectors such as the education, which has increased the risk of failure through expanding the work scope, increasing cost of implementation, and shelving the implementation schedules. Other challenges also noted like merging the legacy database with the new system, users training on the new system, and change resistance, which cause massive cost and pain.

The adaption of e-learning management system and the high involvement of both academic and administrative staff with the new implemented systems indicates the commencement of the integrated systems in the education sector in Oman. Sohar University as a particular case of the higher education institutes in Oman had successfully implemented and adopted ERP system to streamline the daily operational processes, and integrate faculties, departments, and unites together in order to accelerate the access to any information by any user at any given time. The implementation of ERP system was mainly to normalize the registration processes, restructure the operation schedule, provides several services to staff and students, and respond effectively to the outside environment.

ERP system provides functionalities to streamline the school business process and to provide integration between academic departments and administrative units within the School campus. Its powerful functionalities provide several services to the staff and students such as attendance and grades recording, online modules registration and e-payment, courses scheduling and examination, generating several academic and non-academic reports, tracking the °ow of online applications, etc.

The implementation of ERP system modules with several functionalities was to improve the performance of academic activities across the University colleges. Therefore, to get the right system functionalities, the requirements should be very clear to the ERP system vendor to provide the right functionalities that ¯t with the given requirements. However, the ERP system usually includes many functionalities but not all of them are properly used due to insufficient training or lack of awareness to the end-users.

An enterprise resource planning system can be obtained either through on-premise installation, a cloud-based solution or a combination. Some vendors offer both installation methods, or even a hybrid deployment, but many vendors are beginning to move their solutions to a cloud-based system only. This is a response to buyer trends – there's an ever-increasing demand for cloud ERP, or SaaS ERP. In addition, software is moving to the cloud in general.
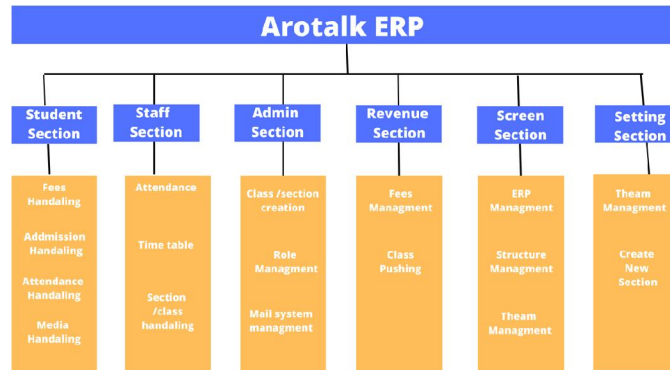
4.1 Block Diagram

Figure 1: Block Diagram

The project describes an ERP Software with multiple modules and their sub structural modules, determining the use and customer requirement. It has a full fledge system with multiple security services.
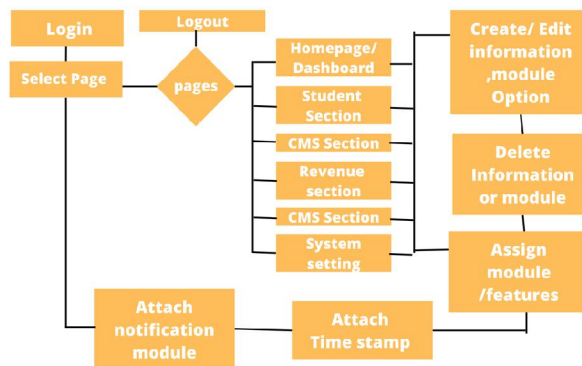
4.2 Flowchart

Figure 2: Flowchart

V. MODULES

Front Office: This module offers the facts approximately,

- Admission Inquiry: This consists of the facts approximately the wide variety of inquiry achieved through the pupil and wide variety of seats found in every standard. Student admission inquiry is the preliminary system of a complete platform that every faculty or university follows.
- Visitor Book: This consists of the wide variety of tourist visited the faculty. It seizes info who's coming in and going out at your workplace facility.
- Phone Call Log: It consists of info file of name foundation or destination, length, date, and time.
- Postal Dispatch: This consists of all the mails to be dispatch(vacations facts, faculty reopening detail, etc.) through the faculty authority.
- Postal Receive: This incorporate all the mail obtained through the parents, teachers, head authority, etc.
- Complain: It has the info of expressed dissatisfaction or annoyance that came about in faculty.

Student Information: This module offers facts approximately,

- Student Details: This offers private information of the pupil.
- Student Admission: This suggests the wide variety of offline admission. •
- Online Admission: This suggests the variety of on-line admission. •
- Disabled Student: It presents the element approximately the disabled pupil and their disability.

- Student Categories: It divide pupil in categories (class wise , male/female, standard, section, etc).
- Student House: It comprise pupil residential address.
- Feedback: By this pupil offers their remarks to the management.
- Remarks: Shows their marks given via way of means of the lecturers to a pupil in step with their performance

Fee Collection: This module offers especially with,
- Collect Fees: It carries the exact view of expenses paid via way of means of the pupil.
- Search Fee Payment: It incorporate the quest bar for locating the rate fee.
- Fee Type: It includes the element approximately the charges fee pattern.
- Fee Discount: It gives the element approximately the bargain supply to students.
- Fees Remainder: It forwards the rate the rest mail to the desired scholar whose fee is pending.

Online Examination: This module offers particularly with,
- Online Exam: It handles the information about the exam date , time , etc.
- Question Bank: It has the key query which are important for exam.

Attendance: This module offers particularly with,
- Student Attendance: It carries the detail of pupil found in class.
- Attendance By Date: It display attendance as in step with the desired date

Lesson Plan: This module offers with,
- Manage Lesson plan: It manages the specified view approximately path taught through the teacher.
- Manage Syllabus Status: It manages syllabus reputation of issue and lesson.

Zoom Live Classes: This modules offers information about,
- Live training: It includes the element view of training agenda each day.
- Live Classes Report: It includes the element of training engaged via way of means of the respective trainer at certain time slot.
- Setting: It facilitates to alternate the placing , or machine default placing as in line with need.

VI. PRE- REQUISITES

6.1 PHP

PHP is a general-purpose scripting language.
The originally stood for PHP (Personal Home Page) .PHP code is usually processed on a web server by PHP interpreter.

6.2 Advance PHP

It is designed for experienced developers and those who have completed PHP Essentials course. In particular, it covers all the latest Object-Oriented-Programming(OOP) and functional programming features

6.3 HTML5

It is hypertext markup language, it is use for creating a HTTPS protocol pages. It is use to make web-pages, with help of various tags.
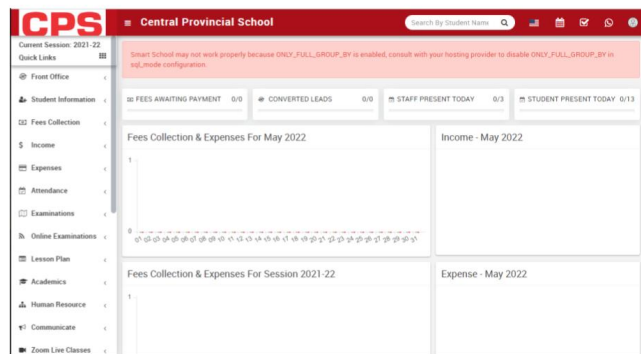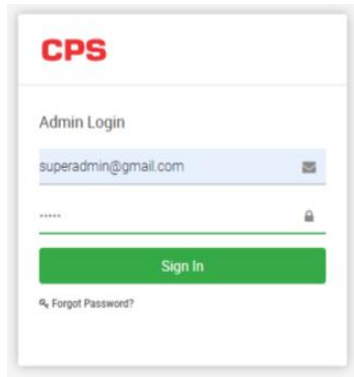
6.4 CSS5

It is cast-cading style, as it is made to make a webpage more attractive, more functional, and fast interactive.
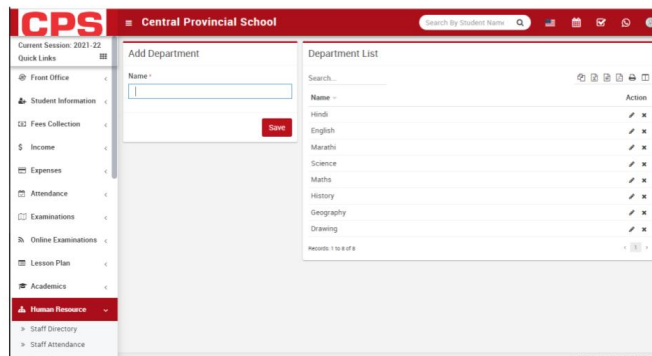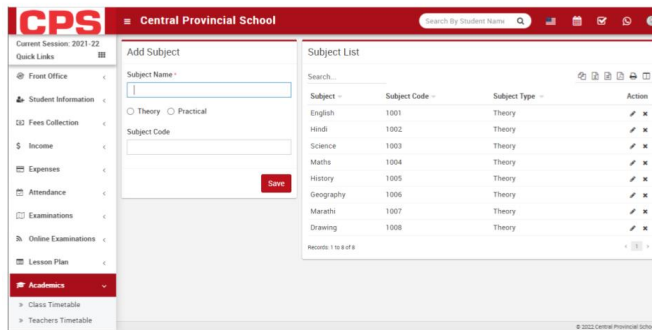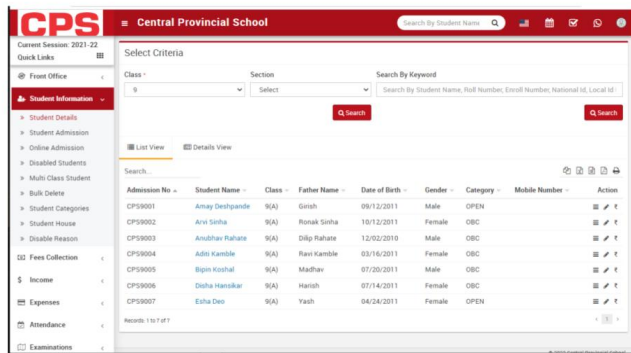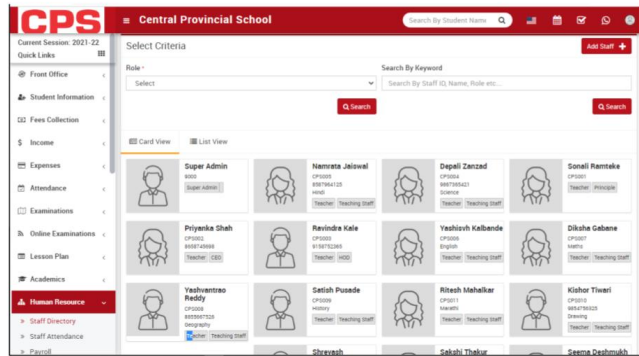
6.5 BOOTSTRAP

Bootstrap is maintained by a small team of developers on GitHub. We're actively looking to grow this team and would love to hear from you if you're excited about CSS at scale, writing and maintaining vanilla JavaScript plugins, and improving build tooling processes for frontend code.

VII.RESULT

VII. CONCLUSION

Title of the project as Aero Web software package is the system that deals with the problems relating to a specific school. it's the terribly helpful to the coed in addition because the academics to quick access to finding the details. This project is with success enforced with all the options and modules of the school management system as per requirements. the school ERP provides acceptable data to users supported their profiles and role within the system. This project is meant keeping visible the day to day problems sweet-faced by a school system.

REFERENCES

[1]. Xia Hu, Min Zhou,"The Three-dimensional Teaching Mode of Enterprise Resources Planning (ERP) Course in Colleges and Universities", IEEE-2011.

[2]. Chongjun Fan, Peng Zhang, Qin Liu, Jianzheng Yang," Research on Enterprise Resources Planning (ERP) Teaching Model Reform for Application-oriented Talents Education" International Education Studies

[3]. Wenjie Yang, Haoxue Liu, Jie Shi,"The Design of Printing Enterprise Resources Planning (ERP) Software", IEEE-2010

[4]. Pranab Garg, Dr.Himanshu Aggarwal "Comparative Analysis Of Erp Institute Vs Non Erp Institute; Teacher Perspective, IJMBS2011.

[5]. Sun, A., A. Yazdani and Overend, J (2005), "Achievement assessment for Enterprise Resources Planning (ERP) system implementations based on the critical success factors." Int. J. Production Economics 98: 189- 203

[6]. Sagar Pawar, Gaurav Geet, Pavan Sonawane, Chetan B. Barhate Late G N Sapkal College of Engineering, College ERP System.

[7]. Hussien 2014, One ERP system for twenty five universities An empirical investigation for development ERP private cloud: Kingdom of Saudi Arabia universities case. Journal of Information Engineering and Applications ISSN 2224-5782 (print) ISSN 2225-0506 Vol.4, No.7, 2014.

[8]. Lawrence T. Gilroy 2011, Higher Aspirations, Greater Expectations: The 2020 Strategic Plan for Utica College

[9]. Charisma 2014. Charisma solutions white paper http://www.charisma.ro/en/erp-solutions/clients/expertise/resources/analysis-and-case-studies/behind-the-scenes/erp-for-the-leasing-industry/.

[10]. Althonayan Mona 2013, Evaluating Stakeholders Performance of ERP Systems in Saudi Arabia Higher Education. DEPARTMENT OF INFORMATION SYSTEMS AND COMPUTING BRUNEL UNIVERSITY.