

COLLEGE ERP SYSTEM

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Abstract: In a college there are various sections and each section handles all student information and college database. The sections in link with each other. Current System of college is facing issues of interlinking and iteration of data. To get rid these problems we represent College ERP System which is automatic and concentrated. This system is user friendly and have powerful data management system which makes this system very useful.

Index Terms - : ERP System, Case Study, ERP Survey, Enterprise Resource Planning, modules, Management System.

I. INTRODUCTION

The main purpose behind the system is for assigning a user-friendly user interface. The College ERP system now control all the important contents and information that are handled in person. As the information is filled inside the system, the system does not require separate people to handle every section. A single handler is sufficient to handle all the reports and data. The security can be set according to the user's conditions and requirements.

- High capacity of the information can be stored with the ease.
- Maintenance of the files of data is easy and handy.
- The recorded information is always up to date.
- Publication of stored information is easy.
- Information can be developed with cases.
- Detailed and splendid calculations are made.
- Labourforce is minimized.

II. LITERATURE SURVEY

ERP stands for Enterprise Resource Planning. Enterprise resource planning (ERP) is a business management software or a system which is used to maintain the data of the business or any sector. It gives a thorough knowledge about the process, normally in day to day time period using the common data given by the database management system.

ERP system tracks resources —It keeps the path of the assets - sets, revenue, development area and the condition of business engagements like: bulk, gain and plan. The application that creates the system transfers the content throughout the various sections. That gives the main data. ERP assigns the instruction flow and manages connection to other partners. Every institute has to maintain a management system which may consist of performance analysis, defaulter system, examination results, student profile, payment information, institutional information and many more. Handling all these tasks manually becomes a very hectic and complicated job for the administrator. In such case there is a high chance of misplacement of the important data and data can be lost easily when handled manually. So to overcome such loss of data there is a need to design and develop a software.

College ERP where the faculty can get all information about a particular student considering the academic studies. It is a software which is user friendly as well as eye catching interface system. The main purpose behind this proposed system is to change the hand-operated system of the college with an automatic software system. This system also maintains the data properly and up to date which is conserved for a long period of time.

College ERP system provides It gives a single approach point to all the handler of the institute. Therefore the departments used to work separately and independently. If anyone wanted to use that information then it wasn't that accessible with such system. Study of these system showcases that all the registrations used to be done manually on paper, which was a very complex task. Creation of the report was also impossible with this system. Even the task of the institute was manually handled and saved. This entire data/information is maintained through the files or registers in the institute Ongoing mode of working is based on hand-operated system in which all the information is collected from the respective individual and then it is inserted in the files. This is very time

consuming and tedious job. The existing system is dependent on the pupil, if the pupil is not present. The achievement of the students will be affected. Because of lots of data many issues are involved in handling, updating and collecting the desired data. Since the old system is totally handled manually, few of the difficulties in the present system are as follows:-

- Repetition of information.
- Problem in renewing the data.
- Non-integrated data.
- Lag in collecting data.

III. SYSTEM DESIGN

A. Detailed Problem Statement

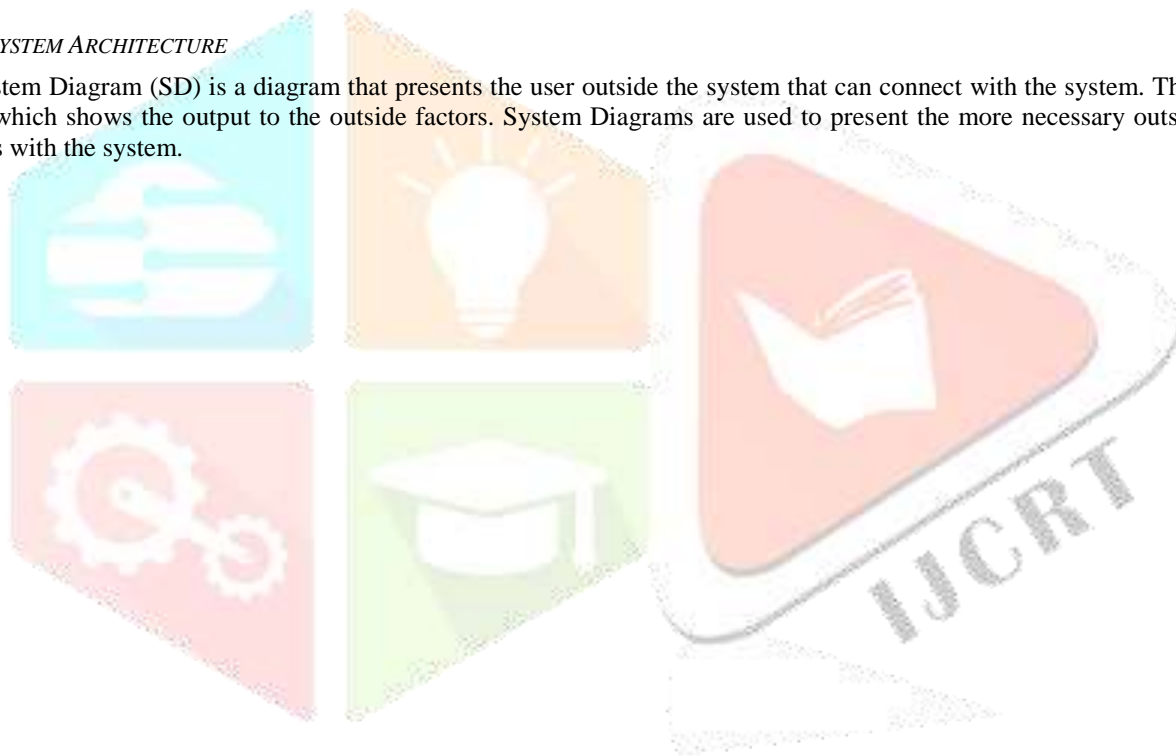
The College ERP system will include the given components and modules. Students, Economic help, Funds, College data storage, Schedule and Student, faculty gateway.

Application service will include:

technical services, data migration and conversion services, integration services, database management services, and system/end-user training.

B. SYSTEM ARCHITECTURE

A System Diagram (SD) is a diagram that presents the user outside the system that can connect with the system. This diagram is a system which shows the output to the outside factors. System Diagrams are used to present the more necessary outside factors that connects with the system.



Work Breakdown Structure

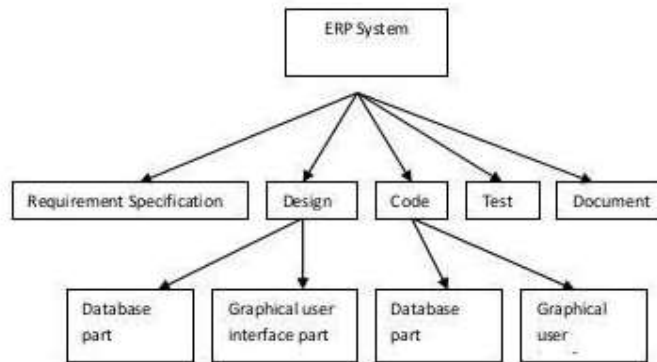


Figure 2 Work breakdown structure of ERP System

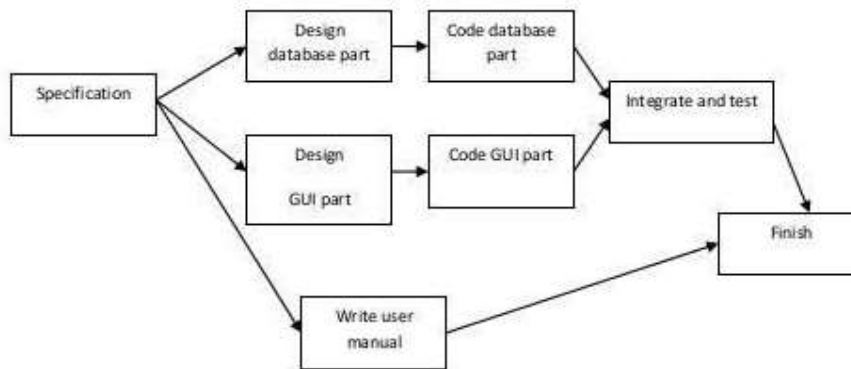


Figure 3 Activity Network representation of ERP System

Fig. 3.1 System Design.

A. CORE MODULES

- Admin
- Student
- Staff

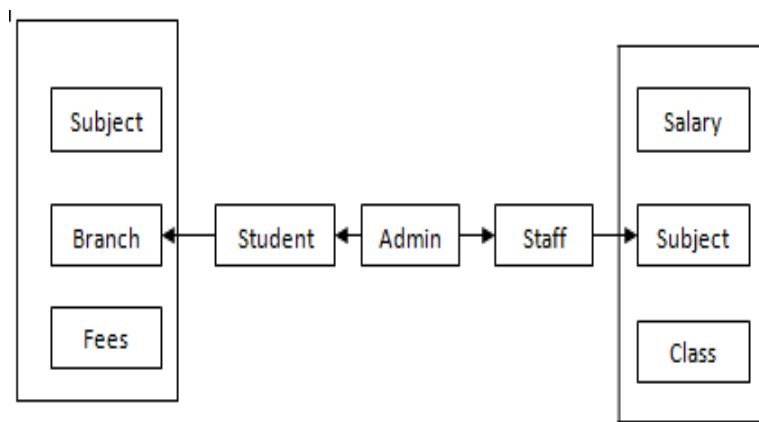


Fig. 3.2 Core Modules

B. ADMIN MODULE

The admin server has entire rights to the working system. Admin is the one who handles the admission, Employee registrations, Academics flow. At the start he enters the appointed staff of the assigned department. Then the classes are installed and the appointed staff is assigned to the installed class as a class teacher. Once the class and the class teachers are allotted then the student registration process begins. All these functions are handled by the admin server only. This access is not allowed for the other users. Admin is responsible for the accountability of the college. He is the one who maintains all the accounts of the assigned staff and registered students.

Workflow:

1. Start
2. Sign In
3. Insert/ Remove Faculty
4. Insert/ Remove/ Edit Program
5. Insert/Remove/Edit Class
6. Insert/ Remove/Edit Learners
7. Sign Out
8. Stop.

C. STUDENT MODULE

The newly admitted students are entered in the system by the server only. When the student gets admitted the user-id and password is made by the admin which can be further changed by the student as per his/her requirements. The students get access to his/her profile, college events, college routine and other information's which are handled by the system admin. One more facility which is allocated to the student, is that he/she can view the information of its respective department.

Workflow:

1. Start
 2. Sign in
 3. View profile
 4. View study material
 5. View Staff
 6. Sign out
- d. Staff Module*

The Faculty members are installed by the admin and the login information is generated by the admin which is further handled by the faculty. The faculty has the entire rights to handle the data of their subjects for their respective classes. Faculty members are given

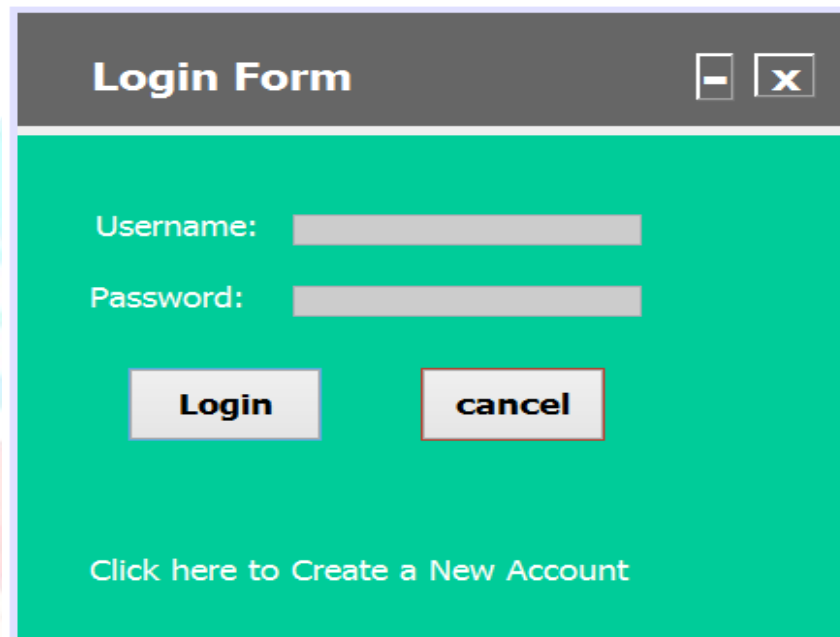
entire rights to give the information and can also upload the note and assignments for their specific subject. Faculty can create a day to day, monthly and annual report of the student based on his/her progress and also of the class.

Workflow:

1. Start
2. Sign in
3. View Student data
4. View Study material
5. Sign out
6. Stop

IV. RESULT ANALYSIS

Main MDI Screen:



Login Form

Username:

Password:

Login **cancel**

[Click here to Create a New Account](#)

Fig4.1: Login Screen



Register Form

Username:

First Name:

Last Name:

Designation:

Password:

Re-type Password:

Email-Id:

Register **Cancel**

[Click here to go to Login Page](#)

Fig4.2: Register Screen

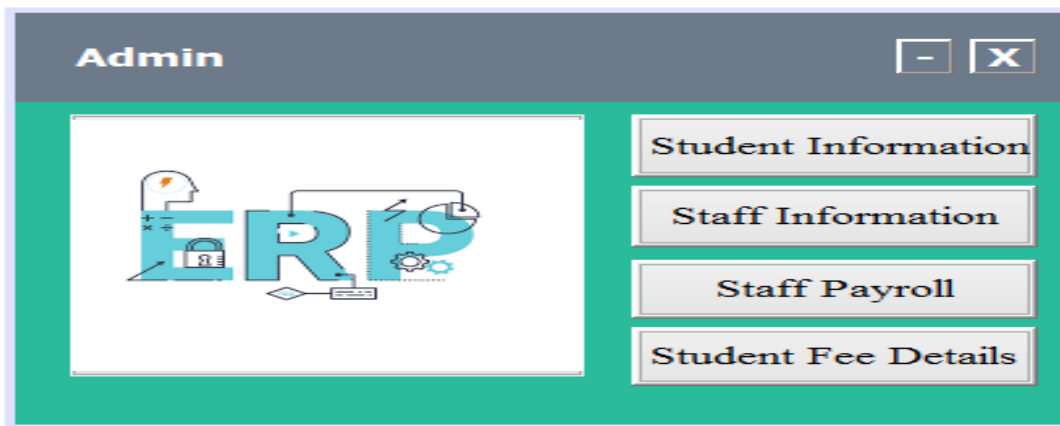


Fig4.3: Main Screen

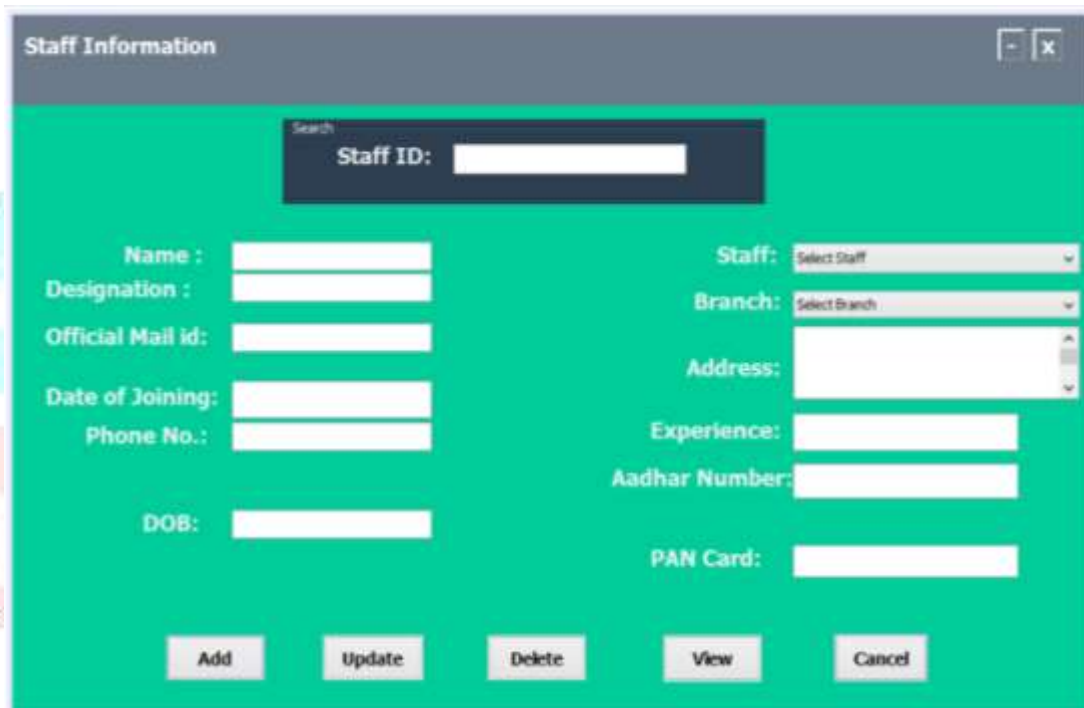


Fig4.4: Student Data Entry Screen

The screenshot shows a web form titled "Student Information". At the top, there is a search bar labeled "Search" with a "Student ID:" label and an input field. Below this, the form is organized into two columns. The left column contains fields for "Name:", "Branch:" (with a dropdown menu showing "Select Branch"), "Email id:", "DOB:", "Admission Year:", "Student Number:", "Parent Number:", and "Blood Group:". The right column contains fields for "Aadhar Card:" and "Address:". At the bottom of the form, there are five buttons: "Add", "Update", "Delete", "View", and "Cancel".

Fig4.5: Staff Data Management.

The screenshot shows a web form titled "Student's Fee Details". It features a search bar at the top with a "Student ID:" label and an input field. Below the search bar, there are four rows of data entry fields: "Student ID", "Fees", "Amount Paid", and "Balance". At the bottom of the form, there are two buttons: "Update" and "Back".

Fig 4.6: Student Fees payment & Balance Tracking:

The screenshot shows a web form titled "Payroll". It contains three rows of data entry fields: "Emp_ID", "Gross Sal", and "Net Sal". At the bottom of the form, there are two buttons: "Submit" and "Back".

Fig4.7: Staff Payroll

V. CONCLUSION

The central issue for controlling and handling the task by the administrator is therefore solved. before this it was quite hectic for handling the timetable and to keep in touch with day to day agenda. But by creating this software the administrator can now handle the task easily and also save his/her time. The quality time of the administrator is also saved and the manual man power is also saved, the data can be retrieved timely and also whenever it is required by the user. The adequate application of the task by distributing it and by allocating the exact outputs. The storage facility will make the task easy of the handler. Therefore the proposed system will be accessible to the administration by making his/her task easy.

VI. REFERENCES

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