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Faculty And Student: Everything In One Portal

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ABSTRACT –

Student Information Management System (SIMS) 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.

Student information system deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details, placement details 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 college's website. 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 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.

Keywords: Attendance, Curriculum, Semester

1. INTRODUCTION

Students structure a principle part of any foundation that worries with. But the establishments think that its hard to keep subtleties of such countless students of the association simply in one stretch. It will include a ton of pen paper work. Sometimes there will be some tremendous load of documents wraps up and kept together in some side of the office. If anybody need any data with respect to the specific understudy then it verywell may be gotten by entering the move number or the name of the understudy then it tends to be acquired by entering the move number or the name of the understudy to be searched. This entire method of dealing with crafted by putting away the information in a coordinated manner. This application will help in dealing with the students reports, results, exams, placements, attendance, marks and so forth and will likewise help in saving time and effort. The user interface should be easy to understand and simple to understand. The data of the specific students will be acquired in only a single click. The basic idea of making this project is to maintain the large amount of data in such an organized manner both faculties and students find it easy to check record.

Ease of Use

Admin Login: It allows all the admin to registered them on the given portal and access easily. **Faculty Login:** It will have so many options such as attendance ,technologies they have worked upon, project guide, mentors, assignment checking+marking, time table,library record(will also upload notes of their subjects), sessionals, quiz, coding test, placement test. **Student Login:** It will have marks(semester+year wise), attendance, new technology(learning or working upon), assignment submission, placement status, tracking project(weekly report), library record, event highlights.

2. PROJECT PLANNING

It is a process which includes the activities required for the successful completion of the project. Project planning generally prevents obstacles that arise in the project such as non-availability of the resources and it also determines project constraints. Planning is generally done by the project and senior management team. Senior Management is responsible for employing team members whereas the project management is responsible for making decisions and planning.

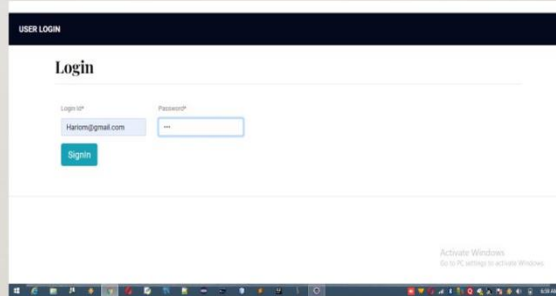
In this system also planning is executed for developing the whole project and meeting the requirements of the user.

3. PROPOSED METHODOLOGY

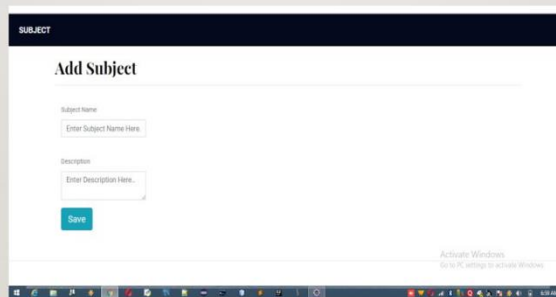
Current system has encountered with many limitations. The suggested system hits the restrictions found in the current system. There exists lot of advantages in a proposed system that is the system is complete package so there is no slipups concerning the statistics of student's attendance and internal assessment marks etc. Also it eliminates redundancy. It is easy to get information from single source. No latency when bringing back statistics and status of the student. Complete statistics of a student can be recovered in the method of system to the mobile phone through one touch. Also it allows admin to store student and faculty details also admin can track the faculty and student details. The application allows bringing about courses surrounded by a class domain. It has got profile based super vision like administrator, faculty and student. It allows faculties to manage student attendance and their internal assessment marks. And also it allows students to view their own details and also can generate report. Students get alerted during examination via circular. And also it allows storing internal assessment marks and also generates the average.

4. DIAGRAM

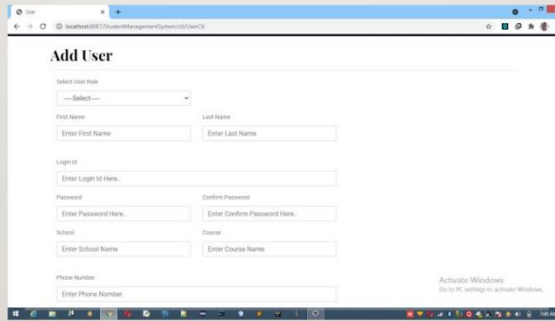
ADMIN PORTAL



ADMIN PORTAL

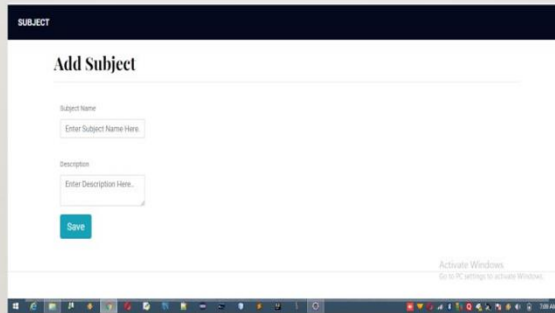


ADMIN PORTAL



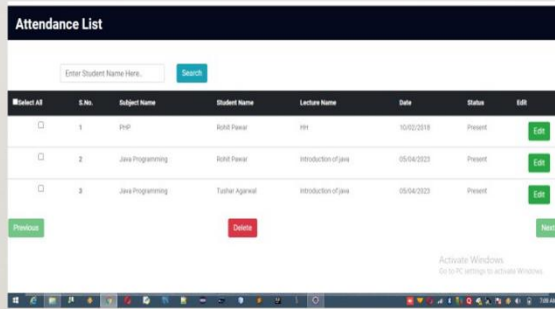
The screenshot shows a web browser window displaying the 'Add User' form. The form includes the following fields: a dropdown menu for 'Select User Role', text boxes for 'First Name' and 'Last Name', a 'Login Id' field, 'Password' and 'Confirm Password' fields, 'School' and 'Course' fields, and 'Phone Number' fields. A 'Save' button is located at the bottom left of the form. The browser's address bar shows the URL 'localhost:8087/CustomManagementSystem/001UserCid'. An 'Activate Windows' watermark is visible in the bottom right corner of the browser window.

FACULTY PORTAL



The screenshot shows a web browser window displaying the 'Add Subject' form. The form includes the following fields: a 'Subject Name' text box and a 'Description' text box. A 'Save' button is located at the bottom left of the form. The browser's address bar shows the URL 'localhost:8087/CustomManagementSystem/001UserCid'. An 'Activate Windows' watermark is visible in the bottom right corner of the browser window.

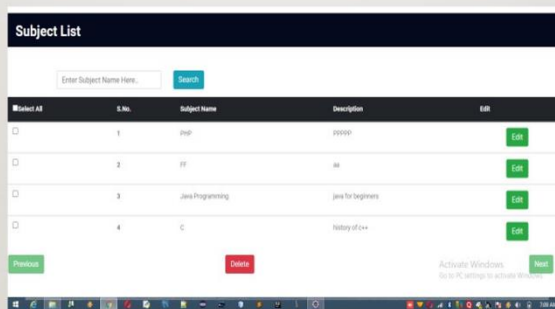
FACULTY PORTAL



The screenshot shows a web application interface titled "Attendance List". It features a search bar with the placeholder text "Enter Student Name Here." and a "Search" button. Below the search bar is a table with columns: "Select All", "S.No.", "Subject Name", "Student Name", "Lecture Name", "Date", "Status", and "Edit". The table contains three rows of attendance records. At the bottom of the table, there are buttons for "Previous", "Delete", and "Next". A Windows watermark is visible in the bottom right corner of the screenshot.

Select All	S.No.	Subject Name	Student Name	Lecture Name	Date	Status	Edit
<input type="checkbox"/>	1	PHP	Rishi Pawan	PH	10/02/2018	Present	Edit
<input type="checkbox"/>	2	Java Programming	Rishi Pawan	Introduction of java	05/04/2023	Present	Edit
<input type="checkbox"/>	3	Java Programming	Tushar Agarwal	Introduction of java	05/04/2023	Present	Edit

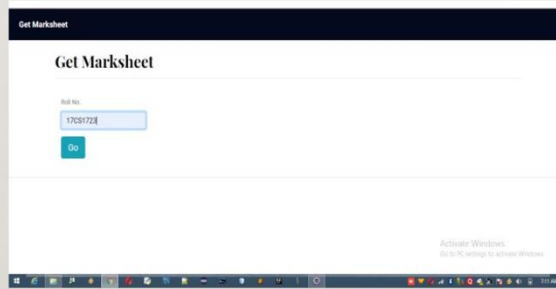
FACULTY PORTAL



The screenshot shows a web application interface titled "Subject List". It features a search bar with the placeholder text "Enter Subject Name Here." and a "Search" button. Below the search bar is a table with columns: "Select All", "S.No.", "Subject Name", "Description", and "Edit". The table contains four rows of subject records. At the bottom of the table, there are buttons for "Previous", "Delete", and "Next". A Windows watermark is visible in the bottom right corner of the screenshot.

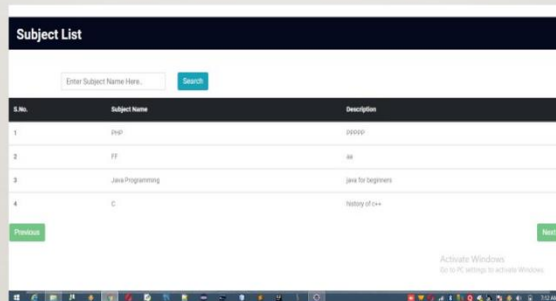
Select All	S.No.	Subject Name	Description	Edit
<input type="checkbox"/>	1	PHP	PHP	Edit
<input type="checkbox"/>	2	PH	PH	Edit
<input type="checkbox"/>	3	Java Programming	java for beginners	Edit
<input type="checkbox"/>	4	C	History of C++	Edit

STUDENT PORTAL



The screenshot shows a web browser window with a dark header titled "Get Marksheet". Below the header, the text "Get Marksheet" is displayed. There is a form with a label "Roll No." and a text input field containing "17CS1728". A green "Go" button is positioned below the input field. At the bottom right of the browser window, there is a watermark that says "Activate Windows Go to PC settings to activate Windows." The Windows taskbar is visible at the very bottom of the browser window.

STUDENT PORTAL



The screenshot shows a web browser window with a dark header titled "Subject List". Below the header, there is a search bar with the placeholder text "Enter Subject Name Here." and a green "Search" button. Below the search bar is a table with the following data:

S.No.	Subject Name	Description
1.	JSP	20000
2.	FF	AI
3.	Java Programming	java for beginners
4.	C	History of c++

At the bottom left of the table area, there is a green "Previous" button, and at the bottom right, there is a green "Next" button. At the bottom right of the browser window, there is a watermark that says "Activate Windows Go to PC settings to activate Windows." The Windows taskbar is visible at the very bottom of the browser window.

5. FUNCTIONAL REQUIREMENT

Functional Requirements defines a function of a software system and how the system must behave when presented with specific inputs or conditions.

- Login in website.
- Registration of employee
- Various requests and their handling.
- Showing result to users.
- Recovering password.
- Set Schedule
- Mark attendance

6. NON-FUNCTIONAL REQUIREMENT

Non-Functional, are those requirements that are not directly concerned with the specific functions delivered by the system. They may relate to emergent system properties such as reliability response time and store occupancy. Alternatively, they may define constraints on the system such as the capability of the Input Output devices and the data representations used in the system interfaces. The key, non-functional requirements are:

- Website should have pleasant look and feel.
- Easy way navigation through web pages.
- Attractive user interface.

7.Purpose of demand analysis

The requirement analysis of the system is to better understand the user's needs, accurately and detailedly analyze

the user's needs, organize the user's needs into a complete definition, and then reflect the requirements in the function of software design, so as to better improve the design of the system and better serve the users. According to the needs of University archives, this system not only can query, modify and add the basic information of students, colleges, majors and classes, but also has the printing function of Chinese and English transcripts and the import and inquiry of PDF document.

8. System design objectives

Student status file management system is designed to manage all kinds of information of students conveniently, quickly and effectively. By using the software system designed in this paper, we can effectively improve the shortcomings of managing student status information manually in the past. The software system not only needs flexible inquiry of student information, such as fuzzy search through student number and name, addition and inquiry of user information, but also requires modification and deletion of students' basic information and grades, as well as upload and download of important documents. In order to ensure the security of information stored in the system and database, it is generally required in the development of software system that the system can set permission according to the user's role. For example, the system administrator can change the settings of the whole system and the users used. Students can only be allowed to view their own information and modify part of the information, while archives staff has the functions of management and modification. Perfect the function and authority of student's relevant information.

9. Backup and recovery of data

The technology of database backup means that the stored database information is copied and saved through certain means, and stored elsewhere as a copy for backup, in order to prevent the loss of data information caused by system failure.

The technology of database recovery is that once the database content is wrong, the system cannot be accessed, man-made destruction or irresistible factors lead to data loss, the backup database can be used to retrieve the lost data information. The

technology of database recovery can be selected according to the way of backup and the degree of data damage. Restoration technology of computer database has limitations. Data information must be stored in computer through physical backup in order to realize the restoring function of database. The system administrator has the right to backup and

restore the database. In the system, the database can be backed up to other locations of the computer, which belongs to

physical backup, or the database can be exported through SQL Sever2008 for backup. The recovery function designed in the system can completely restore the backup database information.

10. Archives Management Strategy

With the development of modern computer network technology, if we want to build a comprehensive information-based archives management system and improve the level of archives management, we must follow certain principles. Only in this way can we quickly realize the informatization of archives management. It is necessary to build a complete archives management system. To improve the informationization level of archives management, formulate relevant strategies of archives management informationization, and promote the coordinated development of Archives Informationization in colleges and universities, we should strengthen the development and utilization of archives management application software, formulate a standardized electronic archives management system, strictly follow relevant systems and norms, and ensure the management of Archives Informationization in colleges and universities. The system has rules to follow. Establishing a perfect security system, with the widespread use of archival information, its contents are more and more extensive. There are much archival information related to confidentiality, loss or leakage will cause huge losses.

Therefore, it is necessary to establish a sound archival information security system, formulate strict security measures, and ensure the security and confidentiality of relevant Advances in Economics, Business and Management Research, volume 96 information. Only when the information system management and information system are implemented in accordance with the rules and relevant requirements, can the security of information management of archives be guaranteed. Informationization is the product of the development of modern science and technology. To realize the informationization of archives in colleges and universities, we must rely on the support of technology. Therefore,

strengthening the construction of information technology can better serve the construction of informationized archives management system. To strengthen the construction of information technology is to improve the level of computer, to

strengthen the construction of information technology, and to improve the professional skills of archives management staff.

11. RESEARCH PAPER

1. **Gray and Reuter**, "*An Introduction to Database Systems*" Fifth Edition, Wesley Publication.
2. **Pressman, Roger S**, "*Software Engineering: A Practitioner's Approach*" 6th Edition, Mass: McGraw-Hill Publication.
3. **George Franciscus and Danilo Gurovich**, "*Struts Recipes*", Manning Publications Company
4. **Emmanuel Bernard, John Griffin**, "*Hibernate Search in Action*", Manning Publications Company.
5. **Simon Singh**, "*The Code Book*", Wiley Publication
6. www.java.sun.com (Official Java Website).
7. www.java.sun.com/developer/onlineTraining/J2EE/Intro2/j2ee.html
8. www.java.sun.com/j2se/1.4.2/docs/api/index.html
9. www.w3schools.com
10. www.javatpoint.com

