Sheaf System for School Management

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Abstract:

Sheaf means number of things. Sheaf System contributes a mild compound for aliment of student data. It can be used by educational institutes to guard the document of students simply. The creation and management of accurate, up-to-date information regarding a students' academic important. Student Sheaf system maintains with every student details, academic oriented and non-academic oriented reports, course details, curriculum, batch details, and other resource related details too. This Sheaf system presides the parent, teacher, admin details also. It steps all the particulars of a student and teacher from the day one to the end of the course which can be used for all reporting purpose, tracking an attendance, movement in the assessment, completed terms, years, coming terms year schedule details, exam reports and news, project, and any other assignment particulars, final exam result. This will also have faculty details; assemblage hit details, students' details in all aspects. The many academic alerts to the faculty, parents and students amended by the school management. It also facilitates us explore all the actions appearing in the school, kind of details and reports can be generated based on massive options related to students, batch, course, faculty, exams, terms, certification and even for the complete school.

Key words— Database, HTML5, CSS,SQL,Java Script

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1. INTRODUCTION

The model and exertion of a extensive student report system and consumer interface is to replace then progress paper records School faculties are able to straightly access every aspects of a student's academic and non-academic activities. Online interface encapsulated in the schools website. The system put to use user authentication for showing only information for an necessary individual. More, every sub-system have authentication subscribe authorized users to build and update details in that subsystem. Every report is fully checkup and justified on the server previously absolute record occurs interchangeably. The addition to a faculty user interface, the system deals with the student user interface, permitting users to access information and submit requests online thus reducing processing time. Each and every data was stored and protected on SQL servers maintains by the school administrative faculties and provides a security. The system features is a difficult authentication system to maintain all users activities and protect the data access instructions and is to increase the work efficiency of the schools record management there is decreases the work for creating analytical data about student and teacher then deliver student records to users.

2. DESCRIPTION OF THE PROJECT:

The main goal of the project is used to maintain the student details in the web portal and deliver required details. The old system is being done manually. All the data collected are processed as hard copies. They

maintain the records as hard copies in the files. The report preparation is tough and then to calculate the marks, attendance details are very hard to computer.

The proposed system is computerized system and developed as web application so the user can access the application at anywhere using their students authorized username and password credential. The proposed approach is managing all the transactions through the web application being developed. The proposed system is required to manage all student marks details, participant event details, attendance details and profile details efficiently and retrieve that information retrieved easily for further reference.

Here the administrator is the centralized person to handling the details and web application in proficient manner. The student can access the application at anywhere using those authorized username and password credentials.

The application uses web services for SMS sending along with the details of student semester mark details, attendance details. Thus the application assists in better control of the system at anywhere in the well secured manner.

The administrator prepares the report such as students list, attendance details for given student details and parent details. If the administrator generates the parent id, student id and teachers id. In addition, the test mark details are prepared for given subject or all subjects. The consolidated mark details for semester are also prepared.

The proposed system is required to manage all students and exams based records efficiently and prepare reports easily. The proposed system is computerized system. The proposed approach is managing all the transactions through the application. The SMS intimation to parents with the details of internal marks, number of leave days. The student are used to know the health checkup details in the application.

3. OBJECTIVES:

The objectives of this project include creating an easy to use and comprehend system, ensure data integrity and validation, maintain visual conformity throughout the system, increase efficiency and convenience for staff and student users and contain a strong error-handling system.

4. PROBLEM STATEMENT:

The creation and management of accurate, up-to-date information regarding a student's academic career is critically important for the management Previously, School relied heavily on paper records for this initiative. While paper records are a traditional way of managing student data there are several drawbacks to this method. First, paper records may be difficult to manage and track. The physical exertion required to retrieve, alter, and re-file paper records are all non-value added activities. Additionally, it is only possible for one user to alter physical records at a time. Finally, data integrity and logging is difficult.

5. OVERVIEW OF DOCUMENT

This document describes the product and its requirements and constraints. It provides a primarily non-technical description of the project targeted towards external audiences. This section includes information such as data requirements, functional requirements, and a general description of the product and its interaction with users from the perspective of the client. This includes information such as external interface requirements, performance requirements, and any other technical requirements needed to design the software.

6. TECHNOLOGIES USED:
HTML:

HTML is a hypertext markup language which is in reality a backbone of any website. Every website can't be structured without the knowledge of html. If we make our web page only with the help of html, than we can't add many of the effective features in a web page, for making a web page more effective we use various platforms such as CSS. So here we are using this language to make our web pages more effective as well as efficient. And to make our web pages are dynamic.
CSS:

CSS Stands for "Cascading Style Sheet." Cascading style sheets are used to format the layout of Web pages. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page's HTML. The basic purpose of CSS is to separate the content of a web document (written in any markup language) from its presentation (that is written using Cascading Style Sheets). There are lots of benefits that one can extract through CSS like improved content accessibility, better flexibility and moreover, CSS gives a level of control over various presentation characteristics of the document. It also helps in reducing the complexity and helps in saving overall presentation time. CSS gives the option of selecting various style schemes and rules according to the requirements and it also allows the same HTML document to be presented in more than one varying style.

JAVA SCRIPT

JavaScript is considered to be one of the most famous scripting languages of all time. JavaScript, by definition, is a Scripting Language of the World Wide Web. The main usage of JavaScript is to add various Web functionalities, Web form validations, browser detections, creation of cookies and so on. JavaScript is one of the most popular scripting languages and that is why it is supported by almost all web browsers available today like Firefox, used the browser Opera or Internet Explorer. JavaScript is considered to be one of the most powerful scripting languages in use today. It is often used for the development of client-side web development. JavaScript is used to make web pages more interactive and dynamic. JavaScript is a light weight programming language and it is embedded directly into the HTML code. JavaScript, as the name suggests, was influenced by many languages, especially Java.

SQL

SQL stands for Structured Query Language. SQL should be access and manipulate databases. SQL is used to execute queries against a database ,retrieve data from a database, insert records in a database, update records in a database, delete records from a database, create new databases create new tables in a database , create stored procedures in a database, create views in a database, set permissions on tables, procedures, and views.

7. DESIGN:

It is the strong belief of the design should not be required to provide data that is already in the student information in the Data Base system. Therefore, the Sheaf utilizes queries against the database to auto fill standard information for a student once they have accessed an electronic form utilizing their user ID. Required fields are used to ensure that all information required to process a specific request is collected. This is accomplished through the use of Spry Assets, which utilize JavaScript and CSS to check inputs on the client side, and use CSS to change the style of incorrect entries for quick visual reference. Additionally, server side logic, using ASP and regular expressions, is used to validate all information before any database modifications are made. This ensures that even if a user has disabled JavaScript, all information will be validated. Forms are designed to be user friendly, organized in a logical order with all related information grouped together using the html commands. Through the use of post submission processing it is not necessary to mandate a specific formatting schema for data such as zip code, phone number, and User ID. All fields are reformatted programmatically through ASP post submission before database alterations are performed.
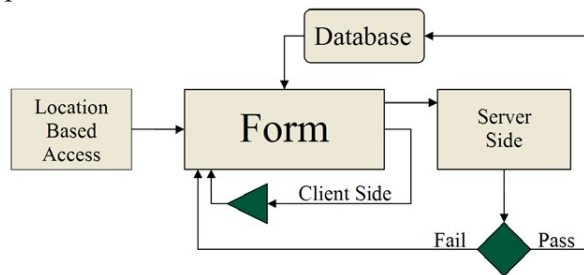
Form validation flow

8. SUBMISSION CONFIRMATION:

All electronic forms display a confirmation page upon successful submissions. Many of these forms display select information contained in the

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submission, and all include timestamp and result message confirming the submission. In addition to confirmation pages, all electronic form submission trigger confirmation emails to users. These emails duplicate the confirmation page and confirm submission with a timestamp and result message.

9. PROJECT MODULES

STUDENT

The student is of center focus, because in every school student plays the very important role . Student can access the information of the school, course details, subject details, faculty details, training and sports information and exam section information. The course details include information regarding branch he is studying, the academic curriculum of the school, year wise subject offered by the branch, the subject details include the syllabus of the subjects, information regarding the staff handling the subjects, attendance and internal marks of the subjects, he can also ask any queries to the staff regarding subject attending, the process sports, the date and time of the. The event detail updates the event information who got participating a event. The exam section details include the internal and external time tables, the room allocation for the exams, it also contains the semester end results.

FACULTY:

The staff can update the information regarding the student's attendance, internal marks of the students and any information regarding the subjects they handle. They can also view the student details for better understanding the student performance and improving the efficiency of the student. The staff also gets the updates from the college regarding any events occurring in the college. They can also get the notifications from the placement cell and exam section.

EXAM SECTION:

The examination section is responsible for updating internal and external examination time table. They are also responsible for the updating the supervision list for the faculty and class room allocation for the students in the examination. And they are responsible for the checking and approving the internal marks details updated by the staff.

SPORTS TEAM:

The sports teacher is responsible for updating the sports related information like eligible students for a particular class, arriving date for the sports meet which is coming for sports event, the list of students who are eligible for attending the game process. The list of student who got won in the sports event and the sports teacher can access the student information from the student database .

ADMINISTRATOR:

The administrator is responsible for entering the new student, promoting the student from one class to another, from one semester to another and from one year to another. Managing the student accounts like any changes regarding to the name, address etc. The administrator also manages the accounts like entering a new faculty, assigning the faculty to the subjects. The administrator also updates the college related information like calendar of events, information regarding any other events that occur in the school. The administrator will check the all the updates i.e. student updates, faculty updates, exam updates etc. The administrator has the highest level of power. Administrator generates the parent id, student id, teachers id and etc.

PARENT:

Parents are allowing to only view the school information this information contains the details about management, school activities, event details, teachers profile, their child details. This sheaf system offering the option for if a parent wants to post their own suggestion about the school it is possible. It can be done through a parent dashboard. Each parent should be accessed the details through parent dashboard. If the dashboard contains the individual structure it is has the details about which types of school information displayed to the parent. And it is having a individual option as feedback. If the feedback is posted to any persons. It may be a management, teacher or sports faculty. Parents want to post their feedback to any others. Parents receiving notification in the parent dashboard.

Parents are having their individual login id. If a parent wants to access their profile they are use their login. Each one having a individual password. Parents are permitted to allow modify their profile. Any new event occurs in the school Parents are

receiving the notification. This parent Dashboard is very useful for all parents. This dashboard is contains all the details about students, teachers and management details.

10. CONCLUSION

The project title SHEAF denotes the number of things. That means this school management project also contains the several thing. This project describes and offering the feature as all in one. This one project includes the several thing teacher details, parent details, student details and management details. The system that deals with the issues related to a particular institution

This paper assists in automating the existing manual system. This is a paperless work. It can be monitored and controlled remotely. It reduces the man power required. It provides accurate information always. Malpractice can be reduced. All standards together gathered information can be saved and can be accessed at any time. The data which is stored in the repository helps in taking intelligent decisions by the management. So it is better to have a Web Based Information Management system. All the stakeholders, faculty and management can get the required information without delay. This system is essential in the all schools.

.   This project is successfully implemented with all the features mentioned in system requirements specification. The application provides appropriate information to users according to the chosen service. The project is designed keeping in view the day to day problems faced by a school.

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