Development Of Online Course Registration Management System

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 ABSTRACT
The importance of online registrations and tracking them in any organization cannot be overstated. Manually registeringhas chances of entering the wrong information many times and is a very tedious task to maintain the records in hardware copies. Online Course Registration for students is a solution to the problem of manually registering the students and managing the documents and details. Hence this tool finds its use in colleges, schools, various educational institutes, and online and corporate training programs. It provides a platform both for the admin to view the details of all the students and for the student as well, to register for the desired course and view their details entered. This website provides the status of the courses offered by an institution and gets updated timely for not missing even the smallest detail. Making the registration system online was a need of this era where everything has gotten digital and has been more in demand.

1. INTRODUCTION

In this digital era, one of the most important features that every organization wishes to adopt is to shift to an online mode of working. The online course registration system is an effective solution for educational institutions and training program institutes to make the system online where the students can easily avail the provided courses and register for them from the comfort of their homes [1]. It's not only effective for the students but also for the admin or owner of the program to view the details anytime anywhere. This website is responsive, made using PHP for the frontend, and MySQL is used as a backend language as a database to store all the necessary details and information.

This paper provides an involuntary registration system that operates without human intervention. The system can also be used to maintain track of students enrolled for a particular course or the total students in the organization. This approach replaces traditional registration methods such as filling out forms and storing those hardware

documents which take a lot of space and requires care [2]. To register for a particular course, students must also register in the database [3]. The user-friendly interface allows for on-the-spot registration. Using an admin account and password, the organization's admin can email the attendance of the day to the respective email address [4]. Only the organization's administrators will have access to the information of all the students, and no other person can make changes to the details. In this research implementation, we used PHP and MySQL as our chief languages to make it efficient.

The objective of this paper is to build an online course registration system, in which a student can go to the website, have a look at the various courses offered by the organization, pick one that is most suitable for him/her, and register for it by entering details.

The following are expected outcomes in order to meet the objectives:

• Two separate modules for Admin and Student.
• Admin will manage all the activities and register the students, providing them a
• username and password unique for them.
• Students can log in using their credentials and also enroll in any course they wish to.

We strive to deliver a valued online course registration service wherever registration for programs is critical or important for the functioning of the organization. Reduce manual process errors and work by using the online registration technique to deliver an automated and dependable system [5]. The online registration system will be more authentic as we develop a system that can register the students by simple click and from the comfort of their homes, and the admin can manage the details of all students in the same way too. Our main purpose is to streamline and organize the tracking and management of course registrations. Also, to increase security and privacy so that no alteration is possible [6].

2. Methodology

Here we have used two main languages for working, which are PHP and MySQL. PHP is used for the frontend of the website and MySQL is used as the backend language for storing the data in the form of a database. We have two panels or modules, admin, and student. Both the pages can be opened, and we can log in using the set password. We can also change the passwords for security purposes [7]. The admin also has the authority of generating new sessions, courses, departments, and various fields related to the respective institution. The admin registers the students and provides them with a unique username, password, and pin code [8]. This pin code comes into the picture when the student is enrolled in a specific course.

In a similar manner, the user or the student can log in by entering the credentials provided by the admin. Users can also change their passwords, view their details, and enroll in the desired course using the unique pin code provided by the admin.

Students are also given the feature to take out the printout of the application they have filled. Students' log-in activity can also be tracked by the admin from time to time [9].

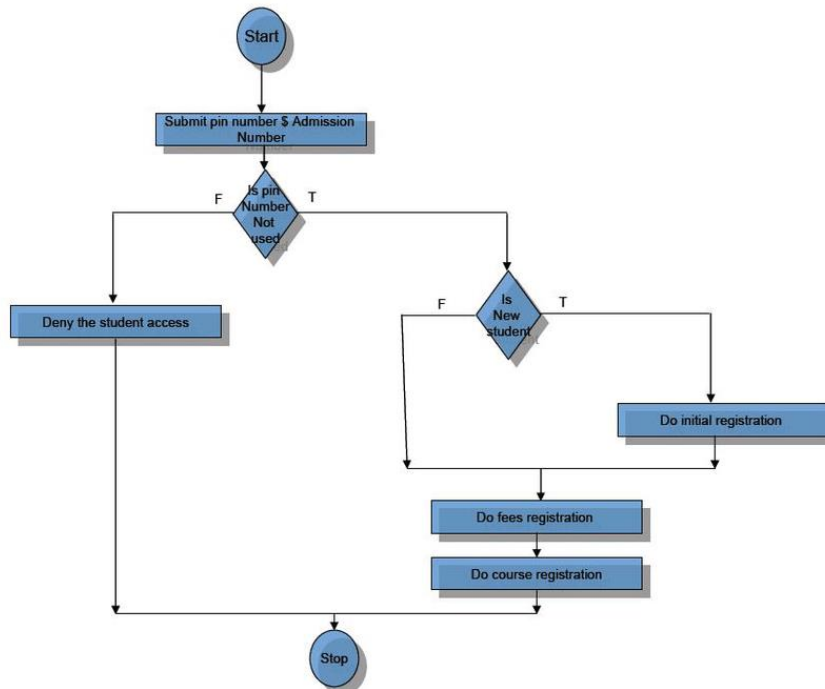Below figure 1 is the flowchart of the online course registration system which depicts the complete working.

Figure 1. Flowchart of the Paper

The task of course registration can be divided into two parts. The first phase is the admin part, whichregisters the student and stores its information in the database, and provides it to the respective student [10]. After that, the next phase starts when the student logs in and enrolls in a specific course using the pin code. The details are automatically updated in the admin portal too. Only the admin has the liberty to access each student's details and alter them. The student cannot change the registration number or pin code which is unique for each student and is allocated only by the admin.

3. Tools, Frameworks, and languages used

i. PHP

PHP stands for Hypertext Preprocessor. It is an open-source scripting language. It is widely used across the globe for web development. This language is embedded in HTML and used for handling the dynamic content of the website as well as the databases. In this paper, we have used PHP for making the front end of the website. All the elements are integrated into web pages using PHP and with that, it has also been used to make and manage the database of the student. PHP has provided efficiency to the normal code and has made it secure and simple.

ii. MySQL

MySQL is basically a database management system. SQL here stands for the structured query language. This tool is also open source and is available for everyone to use. It helps us to store data in the form of tables, that is, rows and columns. The main advantage of MySQL is that it is used to handle huge bulk of data. In this paper, we have used this tool to store the details of the students such as their name, registration number, pin code, and password so that the admin, as well as the student, can access their account any time and manage and enroll in the courses respectively.

iii. HTML

HTML stands for Hypertext Markup Language. It is a language that is used for Web Development. It is used to make the basic layout of a website or a Webpage. We define the basic structure of Webpages using this language. In our paper, we have used HTML to make various pages such as Admin login, Student login, Student Registration, Enroll History, etc.

iv. CSS

CSS stands for Cascading Style Sheets. This is used to beautify our webpage. All the designing and beautification of the webpage is done using CSS. While HTML provides the basic layout, CSS describes how these HTML elements should be displayed. We have used CSS in our paper for the same purpose.

v. JavaScript

Java Script is also a programming language of the web. It is integrated with HTML. It is used to make responsive and fast websites. The dynamics of the website is given by JavaScript while HTML and CSS are used for static purpose only. In our paper, we have used JavaScript for the same purpose as mentioned.

4. Conclusion

In this system, we implemented an online course registration system for a school, college, or any other organization to enroll students in a particular course. It will save time and effort, especially if the organization has a significant number of students. It will also save the members of the organization from manually handling all the documents and storing hard copies of records that need space and extra care too. The goal of the Automated Registering Method is to eliminate the shortcomings of the traditional (manual) system. An online course registration system is discussed in detail in this report. The main feature of the software is that it has separate modules for both admin and student and both are password protected. The admin can manage all the activities of the portal such as sessions, courses, students log, etc. The students can enroll in the course of their choice and use the credentials to log in, provided by the admin, and see the status whenever he/she wishes to. The paper waseffective in registering the user and recording the user's details. It wasable to successfully enroll the student and provide him/her credentials from the admin's account using the

admin's username and password. This technique makes it easier to keep track of details and remain updated till the present time. It also saves time by reducing paperwork and automating the system's functioning. It's reliable and user-friendly, and it enhances productivity.

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