STUDENT ONLINE MENTORING SYSTEM

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Abstract:
Mentoring is guiding the mentees using the knowledge of mentor.Educating others with the information we've got and that to accomplished in a digital platform is one of the principal motives of the web mentoring system. Instead of face-to-face meetings, Online Mentoring System (OMS) uses asynchronous, electronic communications to establish and support the relationship between mentor and the mentees using virtual mode. Learners rely on the expertise and experience of mentors to help them graduate in a timely manner and advance on to their career.These are essentially for college students in recent times who're into a web platform and searching afterThe overall performance has turn out to be a whole lot greater hard than usual, in this situation this machine comes handy. This promotes active interaction of students in both circular and their extra circular activities. Faculty mentors play a crucial role in mentoring graduates in their career building.Students and their mentors percentage obligation for making sure effective and profitable mentoring relationships. Both parties have a role to play in the success of mentoring system. In order to achieve this, a rating system is also included using which mentors can easily evaluate and sort the performance of the students and concentrate on those who need their guidance.

Keywords: Guiding, Interaction

1.INTRODUCTION

The Project is about developing an application which can help students in all aspects.However, due to the poor vocational training or career guidance services in college. The colleges have not been playing its role in the transition to the professional world for their students, who consequently cannot meet the demand from industry. Our system will help thestudents as well as faculties of the institute to have a great mentoring experience. It will be very helpful for the type of students who are very shy to interact with faculties and with other peoples and are not able to ask questions or clear doubts through faculty by one to one interaction. The student can post their doubts and complaints to their respective coordinator through the message from anywhere in the world. Mentor can analyse the relative performance of the student and can reply to the queries of the student. Student user has his login for viewing the feedback given by their mentors. All these credentials and feedback information is maintained in the database server. It will also help in better management of the information about the students as well as faculties, all the information will be digitally stored which will make it secure. Therefore, it is considered that college graduates generally cannot meets the demand from Industry. This system mainly enables the mentors to concentrate effectively on each and every student assigned to them. This system gives the details of the students like information of attendance, marks of the students to all the mentors involved in the system, which empower the mentors to give proper guidance and right solution to the problems of each student.
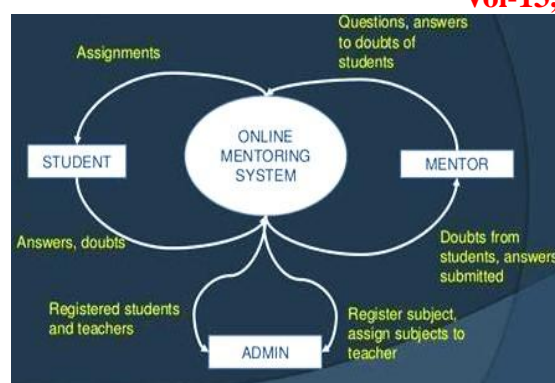
Fig. 1 Scenario of Online Mentoring System

The above Fig. 1 depicts the context level diagram for OMS which explains the whole process in a simplest way possible. It describes the three users of the system, the data that is flowing from each user into the system and the information that is generated from the system as per the requirement of each user.

2.RELATED WORK

The main problem focused here is the process of mentoring between faculty and the student. This process has to be done effectively because it will affect the future of the student as well as the academic institute, among which the foremost thing is betterment of student life. By effective mentoring not only the failure rate in academics reduces but also it will help the student to develop on the whole as an individual. The existing system was pen to paper system where the students are assigned to their respective mentors and the process goes on with noting down activities in a mentoring book. There is a high chance of losing this book before the student completes his education from the college or academy. The data entered in this book can be easily tampered hence it is not the secure way of storing data. Maintaining the mentoring book for each and every student is very tedious, time-consuming, ineffective and complicated way of mentoring, thus it has not lived up to the expectation of lowering the failure rate of the students.

2.1 .IMPORTANCE OF MENTORING

Dull student gets more guidance. Students who needs faculty guidance will get immediately. Mentor can assess the problem of the students and can resolve them effectively. Introvert students can express their problem with the guide. There will be high chances to solve the introverts problems. It helps the student performance and character building. The information is available for 24/7 and it is secure.

3.PROPOSED MODEL

The proposed system which is Online Mentoring System provides very easy, clear and effective way of mentoring. This system shows solution to many problems existing in the current system and the proposed system works in the following way:

- Firstly, the user admin gathers all the required information of available mentors and students. Then he creates login accounts for each one of them.
- Admin can add or remove the subjects of each semester according to curriculum.
- The user admin also assigns a group of students to each mentor.
- The user mentor starts mentoring the students after login in the application using the information of attendance, marks, etc. of the assigned students.
- Mentor can view the relative performance of the students.
- Depending on the information available of each student, Mentor can give right feedback to the students, which can be used by the student to solve their problems as well as take correct decisions.

• Student can post their complaint as the message to the concerned authority.

4.METHODOLOGY

In this section, we can talk how Online Mentoring gadget is developed. It makes use of three tier architecture that acts as an interface between the mentor and the student. OMS is developed on a client-server model that has a user application on client side and the data source on the server side. This system is built under java runtime environment using complete object oriented programming techniques to handle the real world challenges in the system. The complete frontend is designed and developed with the help of J2EE architecture. The backend data is handled by MySQL and for generating the required reports iReport Designer is used.

Now let us see and understand in detail how this application is designed and developed in detail. The following figure 2 gives the complete architecture of the system, which depicts all the three users i.e. admin, mentor and student and also inter-relationship between them. Overall the system contains like one admin under which many mentors and each mentor has set of students allocated by admin and at the same time the mentor is wittingly taking the students for giving valuable counselling for the improvement of the student in an academic institute. The architecture of E-Mentoring specified here is specific to the academic institution and if the mentoring is required in other institution or organization this architecture maybe used with necessary changes.
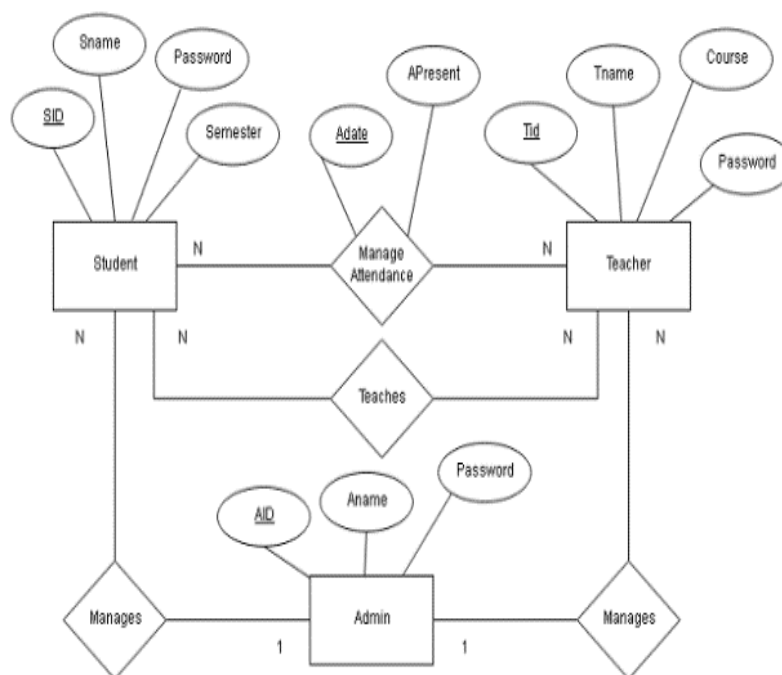

Fig. 2 Internal Architecture of the System.

The user admin is similar to administrator of the system who manages the mentors as well as students. Admin only has the option to create login credentials to both the users and monitor over the actions performed by them. The whole system is controlled by the admin user. The better the process of mentoring goes on, the better results can be expected. The mentors also play a critical role by giving their right feedback to right students. The mentors are mediators among the admin customers and the pupil consumer of the system. Mentors also provided with the login credentials by admin to login and check the information of the students and do analysisof each and every student assigned to him for mentoring then give his valuable feedback. Student user has his login for viewing the feedback given by their mentors. All these credentials and feedback information is maintained in the database server.

There are many important processes that are used in developing this system. Here we discuss about two processes from them and understand how they work 1) Creation of Student Entities via way of means of the admin of the machine and 2) Adding comments on the scholars via way of means of the
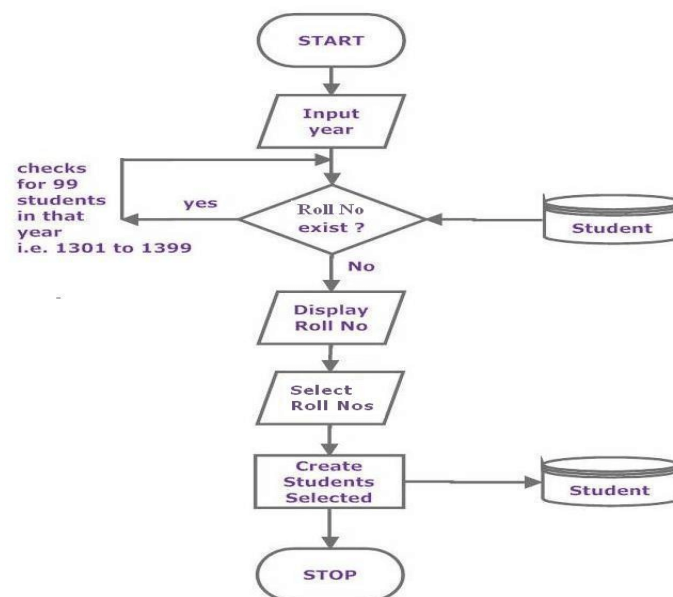

Fig. 3 Flow Chart for Creating Student by Admin mentor.

Algorithm for creating the student entities by admin is as follows:

Step 1: START

Step 2: Enter the input of required calendar year.

Step 3: Check for the pre-existence of any Roll No for the year given as input in the student database of the server.

Step 4: Repeat Step 3 until all the Roll No of the students is checked, maximum strength of students in a class is assumed as 99. For example if the code of a class in a college is 13, then Roll No of students can be from 1301 to 1399 only.

Step 5: After Step 4, display the remaining Roll No available for the creation of the student entities.

Step 6: Select the list of Roll No for which the admin wish to create the student entities.
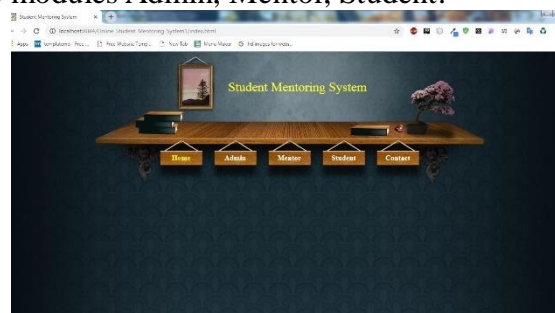
Step 7: Create the new student entities with the selected Roll no as primary key and submit to the student database in OMS.

Step 8: STOP.

5.RESULTS AND DISCUSSION

• Home Page

Home page consists of three modules Admin, Mentor, Student.

• Admin

The admin creates staffs and assign each staffs to their student mentees. He can manage the staffs and the mentees. He can login and logout from the system.

• Mentor

The staffs can view all the information of the students, can communicate with students and to their parents through it. They can also update the profile.

• Students

The student can view and edit their information, contact their mentors and can update their profile.

6.CONCLUSION

This machine supposed to automate and complement the present day mentoring manner and know-how sharing and dealing with manner to provide greater opportunities and access to knowledge transfer for overall growth of the students as well as the institute. This system concludes to have a great impact on the educational platform and student mentoring aspects. All these from a single application is a great deal of success, and attaining the needed users are the main goal of this application. This system can improve the current situations of all the students who has difficulty improving their skills and activities. The primary focus of this entire work is heart felt pain for the student life and to reduce suicide attempts made by students due to academic stress or other problems.

7.ACKNOWLEDGEMENT

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