

A WEB BASED APPLICATION FOR TUTORING SUPPORT IN HIGHER EDUCATION USING EDUCATIONAL DATA MINING

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ABSTRACT

This Paper aimed at developing on Online College Prediction System that is of importance to the college as well as students. In recent time for student to select collage for higher education is very difficult as per their aggregate percentage. After the complete of diploma for higher education admission limited seats are available. Student don't know for his/her which collage is applicable. This study focuses on ways to support student in admissions decision making using data mining techniques to predict collages based on previous cut-off performance at university. In collage prediction system based on valid and reliable cut-off criteria is very important to select collages for higher education. Every collage enroll their collage in collage module then admin have a rights to approve or disapprove if the collage is centralized then admin approved this collage if collage decentralized then admin disapprove this collage. centralized collage is show to student as per their percentage.

Keyword : Data Mining Techniques, Educational Data Mining, College Cut-Off Prediction, Online System, Student Aggregate, etc....

1. INTRODUCTION

Today, all higher education institutions, especially computer and engineering college, face challenges in the admission process. Each university should strive for an admission system based on valid and reliable admission criteria that select candidate likely to succeed in its program. The aim of online college admission system is to minimize the manual work and too much time taken for admission process. Student can login into the system by sign up. They can fill up the form of admission, revaluation, and photocopy. Also the details concerning the updated information of their admission is displayed on the window. The online college admission system facility the admission process by keep going the database and retrieving the information of student easily. This system aims at actuality efficient and user-friendly. Today all the tasks at the time of admission of the students is done manually by ink and paper, which is very steady and consume much efforts and time. In the present-time world of technology, computer are act on our lives in more method than we likely are aware of COMPUTERIZED MANAGEMENT keep

information of an educational institute, colleges, other the list is endless. The main principle beyond the need of college admission system is easy management of institutes. It can hold the details of students such as fee details or marks details. This Student Database has been plan taking into account the practical needs to lead a Students data. Moreover, it provides safety at product level as well as user level. Its design concentrates on 3 types of modules:

1. Admin
2. Student
3. College

This Database go along with a typical event flow seen in such a system. The design and execution of an exhaustive student information system and user interface is to return the current paper records. This is an online system which includes three modules i.e., Admin, Student and College module.

Each student face some issues because in admission system, limited seats are available that's why student is in confusion because in India each collage have a different category criteria. In category wise limited seats allocated for each collage, then student gets confused and put wrong option according their aggregate without seeing criteria and then unfortunately lost all this collage options.

2. LITERATURE REVIEW

We plan and execute a new join seat allocation process for undergraduate admissions to over 500 scheme spread covering 80 technical universities in India, including the prestigious Indian Institutes of Technology (IITs). Our process is based on the popular Deferred Acceptance algorithm, but composite positive action seat reservations led us to make a number of algorithmic innovations, including (i) a faithfully build heuristic for include non-nested commonquotas that span multiple programs, (ii) a method to use unfilled reserved seats with no depletion to the core software, and (iii) a robust approach to reduce flexibility in the number of reserved category candidates admitted, while retaining honesty. Our new seat allotment process went live in 2015, and based on its success, including remarkable and provable reduction in position, it has hold out in successful use since, with in progress improvements [1].

College Management Software is web authorize software plan to manage the whole Working of an institution. College Management Software is a simple still powerful one join integrated platform that attach all the various departments of an institution like Administration, Account, Student section, Student and many more specialized modules. We have seen above the years that the process of notice boards, important notice about educator has been carried out manually almost covering all educational institutions. The task is not only time consuming but also ineffective. Today, we need not to preserve paper based Notice boards. [2].

This paper-pen process is not only time consume but also inefficient and it's difficult to maintain the paperwork and the records. Through this software we are trying to overcome the problem of keep going paper based records and direction on the digital library. In addition to record based technology, we would be sending pushing notifications given by the institutes and the very same portal would be again used to notify the students and even the parents about the announcements digitally. Keeping all these tip in mind, we have evolve a web device which is implemented using web-services that would attach with the database fixed on a remote server. The Unique PRN would provide unique recognition to all the students who would be use this system.[3].

This paper is aim at grow an Online College Admission System that is of importance to the college as well as students. Admission process ready manually is a time indicating process and also show to long queues. In this advance time of technology, we are reducing the manual work and excess time taken in admission process by making it as an online process. Students can register into the system and can fill up the admission forms. Students can also register for revaluation together with photocopy forms. Observation regarding students who took the admission is also show on the window. [4]

3. SYSTEM ARCHITECTURE

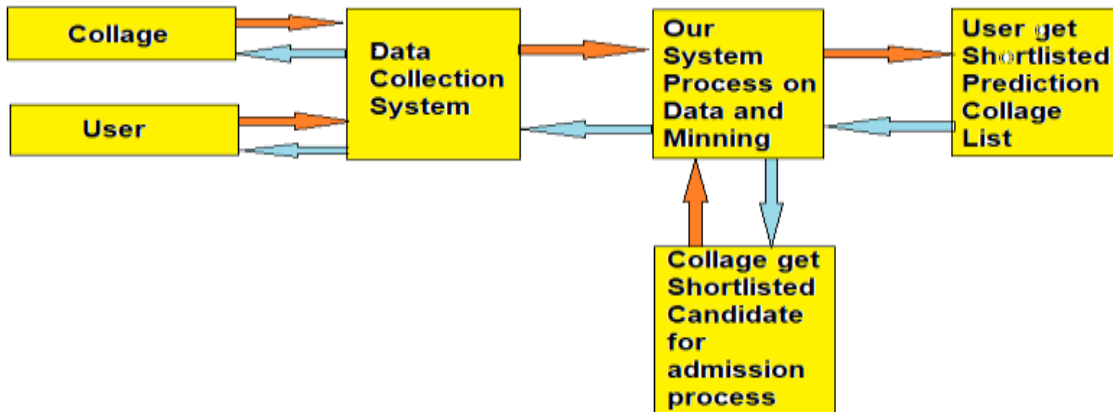


Fig -1: System Architecture

This play with how the data pass through the many processes, extensive and detailed flow graph and the procedure flow of the front end and back end make of the student information running system. There is one database which allocate with student section, student counseling process which holds its verification and validation process and admin section which holds the authorities for all the processes to be implemented.

1) Student:

The student starts with login with their login Id and password provided by admin, through which they can process for their counseling process, they will have to add their three branch preferences in the given time and upload their documents which will be verified by authorities and a confirmation will be given to them by the dynamic page.

2) Admin:

Admin plays the crucial role as all process is implemented by admin units. The administrator is responsible for entering the fresh Student, by giving the definite login id to each student.

Handling the student interpretations like any modification regarding to the name, address, branch, seats etc. or by modifying or deleting the records.

3) College module:

Input will be specific of students like academic summary, particular etc. though to satisfy the admission form. The receipt of confirmation will be there to plaid to check the student gets the confirmation about the details he offer. The features of the administrator and student are stated and profuse tested.

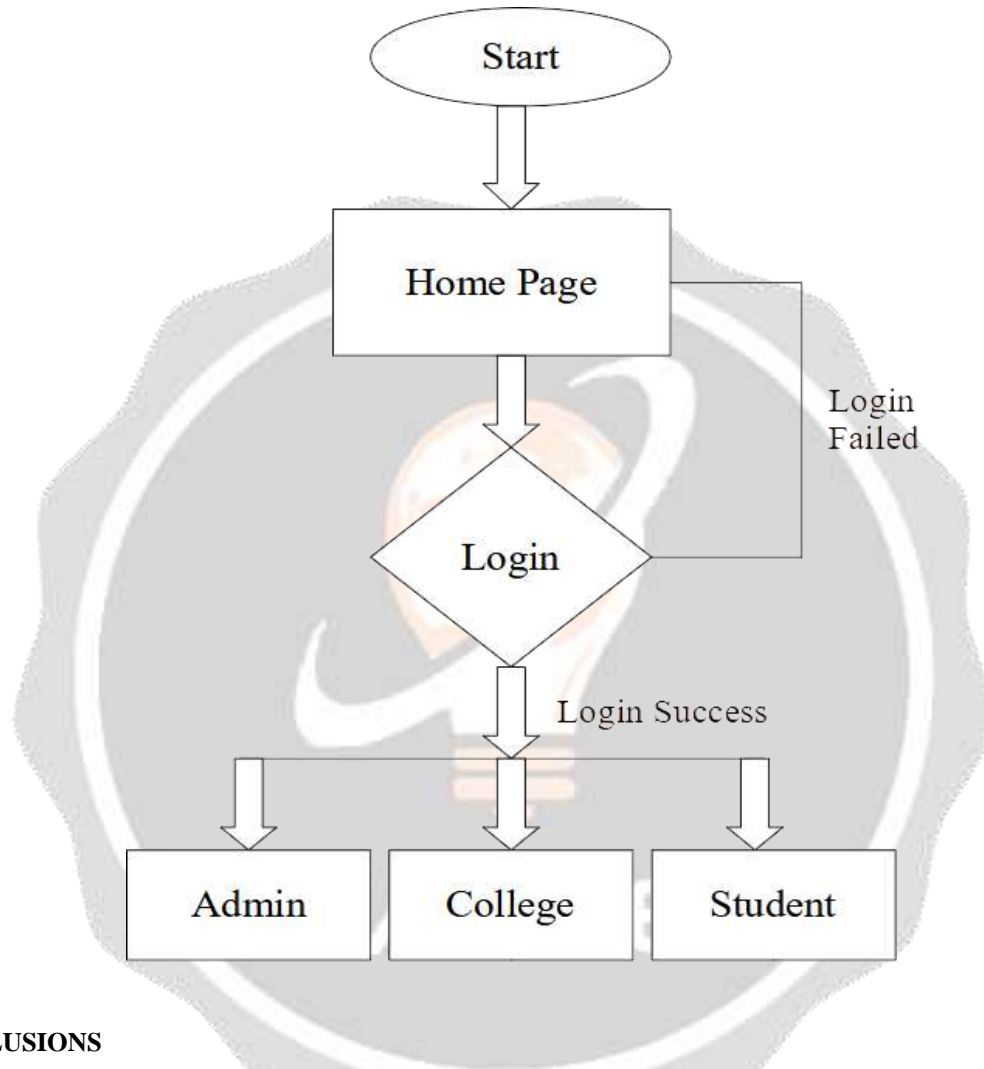
Authentication of the form will be verified and validated by admin units of the college and after the entire completion of counseling process a branch wise list will be get ready with detailed information of student which will facility the work of the department and their faculty to far more stages.

3.1 The Detailed Flow Of Graph

The detailed flow is shown in Fig. 2. The design of the student information management system includes the design of the home page which provides the way for all the students and other user to access the SIMS. Every user of the SIMS has a special username and password provided by the web expert of the college. The home page largely contains a login form between which a new user can register, or an existing user can login to the system by entering the username and password. The execution of the student details running system embrace of the

creativity of the home page which gives the best interface for all the students, and admin login. The home page mostly contains a login between which student and admin can login to observe it to further way.

3.2 Flowchart



4. CONCLUSIONS

In this way we are move to develop college managing system, which is helpful for Reduction in manual work so less manpower required. Student records can be accessed within hardly any seconds. Clarity in account section. Our system essentially focuses on building an systematic and user friendly communication system for the educational institutions. And also the student gets warn for current announcement in college by the android approach developed by us.

By this project we are manufacturing to increase and implement the improvements in college CAP round admission system, which is good and an easy way for reduce in hand work and making less handwork necessary. Student database can be recover within quick interval of time proper maintaining of records can be achieved. Our system presently train on creation of a good management system for the college universities. System will resolve the issueof seat status by showing dynamic display of the CAP round admission process.

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