

Development of a Web Portal for Managing Institute's Admission and Examination Process

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Abstract- In the olden days all the educational institutes were carrying out the admission process manually. Performing the operations such as searching for a particular student was difficult and also modifying the students record was also difficult because each modification needs to be either overwritten or written in different places. Searching the appropriate record creates a sort of ambiguity. In this paper we have proposed an automated tool which is webpage design and provides various details to the user. The user interacts with the webpage by giving the appropriate login name and password, further webpages display various options such as eligibility, promotion, fee details, report and so on. The user can interact with ant options and generate the required output

Keywords: admission process, examination process, eligibility and promotion, portal

I. INTRODUCTION

Today all the work at the time of admission of the students is done manually by pen paper, which is very slow and consumes much effort and time. In today's world of technology computers are affecting our lives in more ways than we probably are aware of computerized management, maintaining information of educational institutes, colleges, and the list is endless. In the olden days all the educational institutes were carrying out the admission process manually. Performing the operations such as searching for the particular student was difficult and also modifying the student record was also difficult because each modification needs to be either

overwritten or written in different places. Searching the appropriate record creates a sort of ambiguity. Developing an automated admission system that is of importance to college as well as students. In this advanced era technology, we are reducing excess taken in the admission process by making it an automated Online Admission System aimed at developing an online admission application for a college. This system is an online system that can be accessed throughout the organization and outside as well with proper login provided. Our system has two types of accessing modes, administrator and user. Student management system is managed by an administrator. It is the job of the administrator to admit and monitor the whole process. When a user logs in to the system. He would only view details of the student. He can't perform any changes. The system has two modules. They are User Administrator Students logging to apply for the course by filling an application form provided online. College principal/administrator logging in may also access/search information put up by the students.

II. LITERATURE SURVEY

The paper discusses a hybrid recommender system which is based on data mining techniques and knowledge discovery rules for tackling college admission prediction problems. The authors also discuss the analysis of system merits, student background, student records, and college admission criteria. The paper helps us to know about various activities related to the admission system in the college. The method suggested in paper [1] is appropriately modified and used in our work. [1]

The paper discusses the objective of this project is to develop a method to use the personal computer to automate the admission procedure of an educational institute and effectively manage student databases. The staff will be able to manage the student marks, fee information, personal information and all other academic information which is manually. This paper helped us to understand the process and maintenance of the admission process. [2]

The paper discusses the student admission process based on automation, the admission process is carried out in that to get the student details via excel file, folder, images or pdf this is input to the system and the system reads the file and fills that data in the admission form automatically. The authors also discuss the students getting the mail automatically generated once the admission process is completed. This paper helped us to carry out the student details in the admission process. [3]

The paper discusses an automated online admission management system based on a web platform to manage the complete admission procedures. Through this software we are trying to overcome paperwork and focusing on digital work. The author also discusses how the unique PRL wood provides unique identification of the student who uses the system. This system is built with various modules which deal with managing admin and student information, managing the admission process. [4]

The paper discusses a web-based college admission system that is based on web unbaled software that manages the entire institution's operations in the admission process. [5]

The paper discusses developing an online college admission system that is of importance to the college as well as students. In this era of technology, we are reducing manual work and excess time taken in the admission process by making it an online process. The authors also discuss the analysis of student revaluation as well as photocopy. This paper helped us to understands the importance of college management as well as student admission.[6]

.The paper discusses the development of an automatic online admission management system on a web platform to manage the overall admission process. The unique PRN number which is the permanent registration number is sent for the applied candidates. The author also discussed about the automatic online admission which benefits the student as well as institute in admission process. [7]

Excel Formula: =COUNTIFS(C6:C13,">="&C1,C6:C13,"<="&C2)

	A	B	C
1		Period Opening	1/1/2006
2		Period Ending	12/31/2006
3		Number of Student Registered	3
4			
5	S. NO	STUDENT	ADMISSION DATE
6	1	John	1/13/2007
7	2	Cena	7/26/2007
8	3	Michael	1/8/2009
9	4	Andy	10/17/2009
10	5	Beevan	10/16/2008
11	6	Shaun	7/22/2006
12	7	Marie	4/13/2006
13	8	Juliet	7/7/2006

.The paper discusses the web-based application in which students can register and it manages all the student records. This system stores the list of students along with relevant information. Admission management system helps to make the admission process much easier and helps in maintaining the database in an efficient way. The author also discusses with this system the total time of the entrance allotment becomes lesser and the admission process becomes faster. [8]

The paper discusses the educational institutions to maintain the records of the students and information regarding student academics in the institute based on the student information system. The authors also discussed and analyzed the development of the system easily understandable and usable by the students. [9]

The paper discusses college admission based on a web portal for proper college information then the number of students taking admission can be accessed easily. This system will also provide predictions for the next or future year. [10]

The paper discusses a college automation system which will manage working of college management activity. The main objective of this project is reducing manual work. The authors also discussed the system given role-based access: every user has a username and password which is used for accessing the system. [11]

The book referred to is HTML and CSS the complete reference, which gives complete knowledge about markup languages and in our work, HTML is to create webpages, using CSS we designed web pages. [12]

The book referred is Sava seventh Edition using all the java features in developing our project java was designed to be easy to use and easy to write, compile, debug[13]

The book referred to is Fundamentals Of Database Systems is system for system software easy, efficient and reliable and data processing management. [14]

The book referred is Software Engineering defines as process of analyzing user requirements and then designing and testing software application[15]

III. PROPOSED WORK

Proposed tool interacts with the student and administrator and generates the various outputs which are further used in the other modules or by the external agencies. The required reports for the students, department and various departments in the office. The block diagram of this entire activities related to the web page design is shown in the fig below

A. SYSTEM ARCHITECTURE

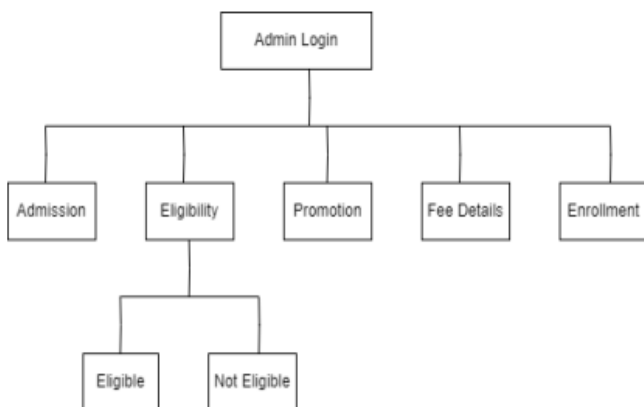


fig 3.1 Ideology Diagram

The web page design has a different module such as: Admin login, Admission, Eligibility, Fee details, Student status, Report. The details of each module is described in the following sections.

B. FLOW OF THE SYSTEM

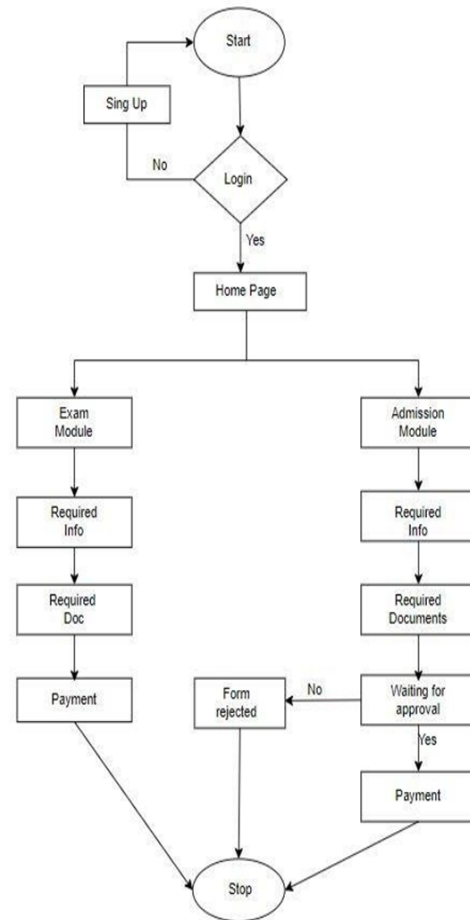


fig 3.2 Flowchart

C. FUNCTIONAL MODULE

Admin login

The login process for admin is carried out by providing administrator privileges such as login name and password. The administrator will have all types of admission such as read, write and modify. During the login process after giving the expected login name and password the webpage displays the dashboard were in the different option such as admission , promotion, eligibility, fee details etc. are available Admission

The admission process for the student is carried out by providing the list of requirements and the requirements will be validated by the administrator and admin will have all kinds of admission such as read write modify. During the admission process the admin checks eligibility of the student if the student is eligible the webpage displays the dashboard in the different options available such as promotion fee details.



fig 3.3 Home (for unknown user)

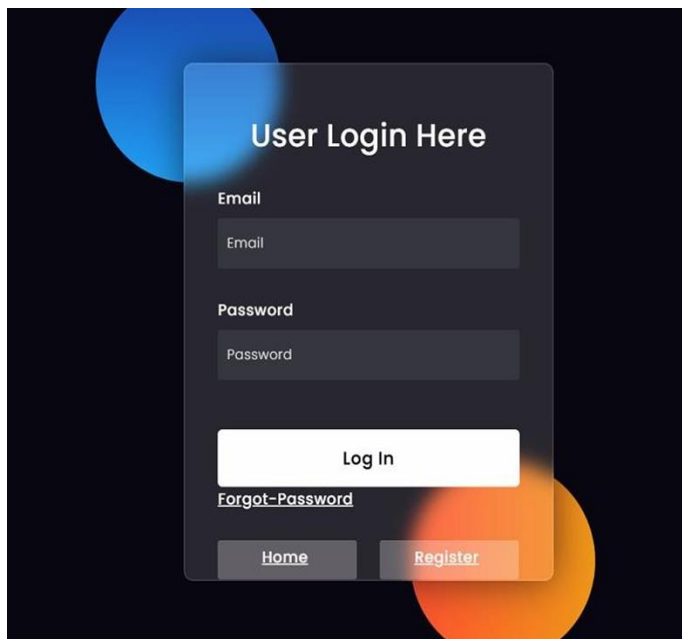


fig 3.4 Login Page

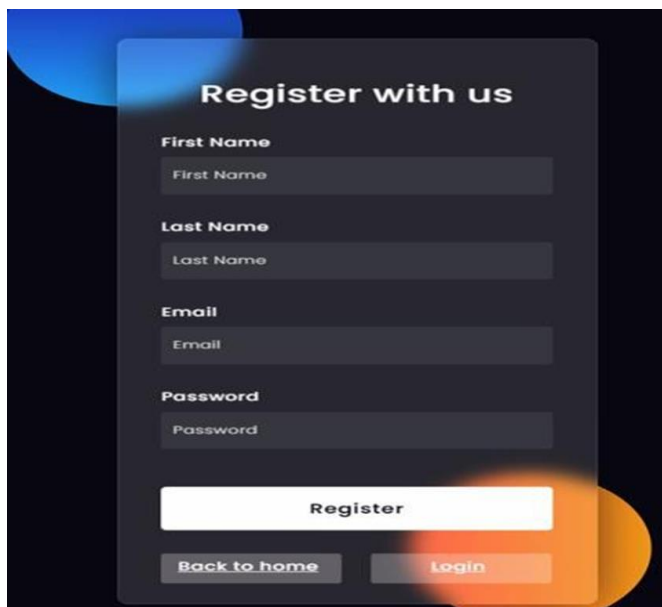


fig. 3.5 Registration Page

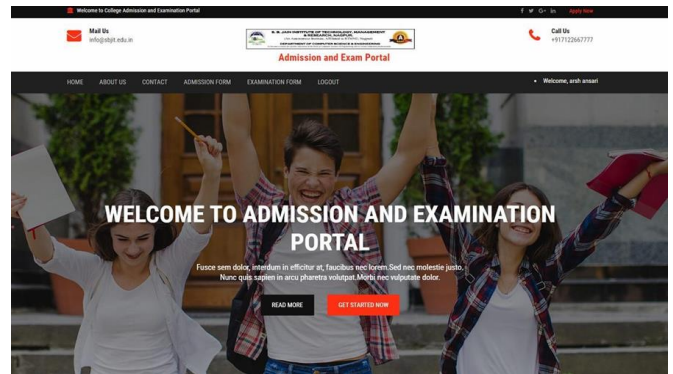


fig 3.6 HomePage (After Login)

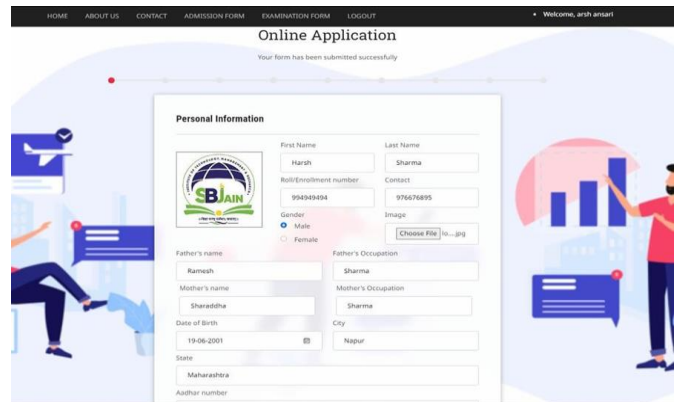


fig 3.7 Admission form

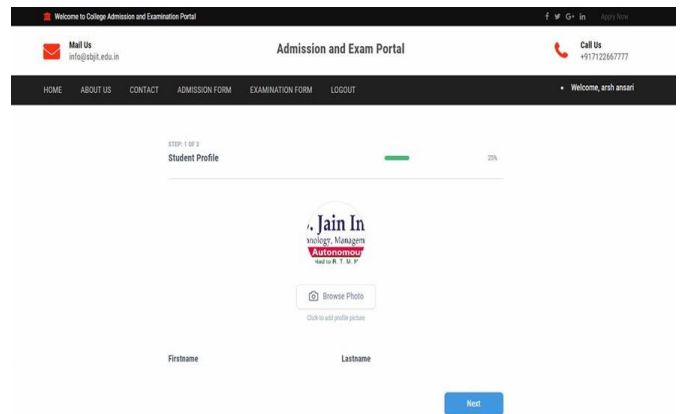


fig 3.7 Examination form

Eligibility The eligibility process for the student is carried out by the list of requirements in this eligibility process the admin will check all the eligibility criteria of the student based on their previous year marks that is a maximum of four backlogs for the promotion of next year. And only the eligible student's application will be displayed. Fee details The fee details process for the student is carried out by the admin and it is only accessible by the admin. If the student meets all the requirements, he will be eligible and all the fee details will be

displayed in the dashboard for the student.

Once the student gets promoted it displays the mode of payment. It can be either online banking or any kind of payments. Student status The work is carried out by admin. Here in the student status admin can view the details of the eligible and not eligible student the eligible student will be enrolled for the further process and admin can view the student who are not eligible for the admission. The admin can view various details of the student, departments, and by giving the student register number he can view the marks details of the student. And any modification done by the admin will be immediately updated in the report.

discuss a hybrid recommender system which is based on data mining techniques and knowledge discovery rules for tackling college admission prediction problems. The authors also discuss the analysis of system merits, student background, student records, and college admission criteria. The paper helps us to know about various activities related to the admission system in the college.

IV. ADVANTAGE

1. It assists educational institutions in easily managing their student admission process in real-time, which otherwise is a maze-like scenario with many complications like emails, calls, interviews, back and forth emails, and follow-ups. The right college admission management software can be a boon not only for the admission team but also for the students.
2. While to the admission team it reduces common problems like data entry, designing forms, document collection, verifying, qualifying, and coordinating processes students the online way of managing admissions is all about creating an online profile, preparing the supporting documents, submitting the application, getting shortlisted for the interview, final selection, followed by offer acceptance. The online admission management system makes the entire onboarding process easy to navigate, intuitive, and secure.
3. The module is efficient in capturing student inquiries, checking their eligibility, creating follow-ups, collecting documents, and completing the application process automatically. The online admission management system further allows students to apply online, submit their documents, check their application status, attend interviews, pay fees online and enroll

4. Admission software has enabled schools to save man-hours of its staff, and eventually additional labor costs. Lowering prices and increasing applications of admission software will further drive their demand over the coming years.

5. The Global Admissions Software Market report provides a holistic evaluation of the market. The report offers a comprehensive analysis of key segments, trends, drivers, restraints, competitive landscape, and factors that are playing a substantial role in the market.

6. Of course, the admission cycle is lengthy and unmanageable. With the number of admitting applicants increasing every year, the process has become cumbersome too. It involves bundles of paperwork – right from student lead generation to document collection, selection, and the final admissions, everything applies for time-taking manual work.

7. Higher ed institutions are preferring to analyze applicants' prospects based on real-time data. This thought has been forcing the demand for admission software in order to handle multiple registrations at a time and to connect multiple touchpoints. A dynamic and customizable way of conducting admissions with self-service application portals makes the admission process seamless for both the applicants and those in the admission committee.

V. APPLICATION

1. Flexibility and convenience to Applicants

The online admission management system gives applicants the best user experience by allowing them to access via their favorite mobile devices, or through a PC. Unlike a regular queuing up in a real-life scenario, the process allows them to submit their applications in just a few swipes, from wherever they are around the world. This way, there is no messy handwriting, postal disconnectivity, courier delay which disrupts the whole application process. Online admission systems can be a great boon to even candidates in rural areas or those with disabilities. They feel they have a constant guide who is engaging them throughout their admission process with a hassle-free online college admission system.

2. A boon for institutions

Universities and campuses can turn advantageous by saving a lot of their time and effort with an admission automation tool. It filters the best-fitting applicants from the whole and

processes only those who suit the specific selection criteria into the next-to-next step of the admissions. All crucial students' information, their files, and documents are saved in the cloud database, which facilitates easy information sharing and retrieval whenever needed without any hassles. The unnecessary expenses of processing applications and utilizing huge manpower to manage bulky admissions are sliced away with the help of an online application system. Besides, the admission team also gets to work in peace with sanity.

3. The advantage to self-register

The online college admission enrollment system provides online application forms for admission, registration, enrollment, fees, hostel, and canteen. Students can register and easily apply to their preferred university by logging into their student portal, uploading scanned documents like mark sheet, bonafide, making the registration fees online, doing applicant tracking by receiving auto notification about their admission process, and finally taking up tests and confirming admission.

4. Increases efficiency of the admission team with zero errors

Imagine a university that accepts hundreds to thousands of applications in a single day? This lengthy paperwork can be a catalyst for errors. On the contrary, the online way of conducting admission is flawless, is completely reliable, and rules out errors. With automated admission management, the team can simply oversee the admission process without the trouble of any time-taking manual tasks. All that's needed is tweaking the workflow to suit your requirement from creating a student portal to document submission, selection, announcement of shortlisted candidates till the final payment and enrollment.

5. Handles unlimited applicants and applications

What's even more advantageous of an admission software is its no limitation when it comes to handling applications. It is highly scalable and allows an unlimited number of applications for countless users, courses, and programs.

6. Seamless application tracking & communication

Powerful communication, collaboration, and automation tools enable administrators in higher education institutes to track application history and status, send automatic email alerts and reminders across the website and mobile devices, send relevant and personalized information as they apply online, get shortlisted for assessment tests and interviews and

selected to courses based on the ranking of applicants.

7. Trouble-free admission monitoring

The online admission system is designed to monitor every nuance without any delays. Right from sending timely updates to scheduling follow-ups and interviews, the system takes care of it all. Similarly, the applicants can easily track the progress all by themselves, at the touch of a button

8. Sets the best recruitment benchmark for your institution

By automating the steps to admission and enrollment, the admission committee establishes an outstanding admission and enrollment benchmark and boosts the efficiency of their institution like never before. With options to conduct open admission, predefine eligibility criteria, filter the most eligible students, verify and close the admission process, your institution would outshine in its student enrollment process.

9. Supports multilingual admissions

International students are finding it difficult to access the database in the local language. Localized databases enable administrators to target multi-ethnic and multi-racial students who can access language-specific information through multiple channels. This will ensure doors of higher education are wide open to as many students as possible.

VI. RESULT



Admission detail of arsh ansari (99879849)

Personal	Registration	Address	Reservation	Scholarship	Academic	Upload File	Declaration
<p>arsh ansari</p> <p>username: 99879849 email: arsh@gmail.com</p>							
Father's Name	Raj	Father's Occupation	Sharma				
Mother's Name	Shraddha	Mother's Occupation	Sharma				
City	Hapur	State	Maharashtra				
Date of birth	Jan. 19, 2022	Author Number	799461				
Nationality	Indian	Gender	Male				

fig 3. Filling admission form successfully

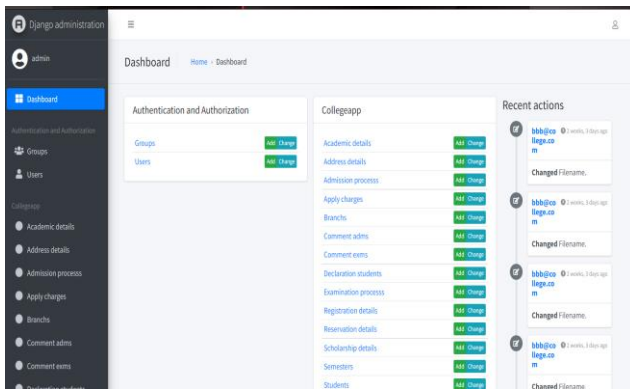


fig 3. Database report

VI. CONCLUSION

We will use a payment gateway for making an online payment. During this project tenure we will apply professional ethics and will understand the importance of team work and communication while presenting project in college level presentation for project management, which leads us to engage ourselves in lifelong learning. In this paper a novel approach proposed and developed a tool in the form of web page which takes the required input from the student and its process. The input generates the required output as per the requirement of the college office, department and statutory bodies. The developed web pages are verified for correctness and completeness.

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