

COLLEGE MANAGEMENT SYSTEM

**ADVANCE SOFTWARE
ENGINEERING
PROJECT**

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Introduction of College Management System

The main menu will contain six parts which are as follow:

- Student Login
- Teacher login
- Deposit Fee
- Ask Queries Forum
- About Us
- Contact us

Existing System Description of College Management System

In this section, we will discuss the existing system and some of its drawbacks which force us to plan this whole idea of developing an online college management system. Let us take an example Initially colleges appoint many employees to maintain the record of the student, teachers, other

Student Login of College Management System:

This module of the system will help the students to create his account where he will find the following options:

- He will start to get notifications.
- Students can pay their fees through the portal and check status.
- They can find their results and test marks.
- Students can apply for rechecking of the answer sheet through his portal.
- Students can file a complaint against their teachers if the teacher is not behaving well.
- Students can also file a report if they are facing any ragging issues.

So above are the following points which a student can perform after getting register on the portal and get a confirmation message from the admin.

Teacher Login of College Management System:

This module will help the teachers to manage their work more efficiently and precisely. Teachers only need to log in by using their username and password.

They can perform the following activities which are as follows:

- Teachers can put any kind of announcement related to a group or section.
- They can also mark the attendance online.
- Teachers can give marks to the student and update his record according to his result, so they can also view the results of the students.
- Teachers can also request leave from the higher authority and this leave will reflect on the student portal so that they can know which teachers are absent on which date.
- If a teacher wants to organize some kind of social work event, they can broadcast the notification to all the students through their portal.

- The teacher can also find the contact details of parents and inform them by mail or by making the call.

Deposit Fees of College Management System:

This module of the system will help in maintaining the financial record of the students and teachers, there is a constraint:

- It will only provide information about the fee status of the students.
- Teachers can also see their respective increments through their portals.
- Students can deposit their late fees or any kind of charges through this portal without standing in line.

Ask Queries Forum of College Management System

In this module of the developed system, we will allow the students to ask their queries. Students and teachers both are allowed to answer the queries, students can also post problems regarding any subjects or college rules and regulations. In this module person who does not belong to the college can also post his queries and problems to clarify the aura of the college and get a better understanding of the fee structure before entering the college.

About Us of College Management System

This feature will provide information about the college and developers so that if you want to get a new design or any kind of change and suggestion you can come up to us and make your contribution to this system of online college management.

Contact Us of College Management System

In this section, we have provided the contact number and proper address so that students and teachers can reach us and mentioned their problems to solve if there is any technical issue related to their login and logout. Students can also contact us if they are curious to know something about our database and how the system is working, we will provide them with a brief

Attributes of College Management System:

- Every entity has its attributes such as every car has its specifications. The oval shape represents it.
- In ER diagrams diagonal is used to represent the relationship between the entities.

Here We Will See the Er-Diagram and Its Attributes:

Let us discuss the entities one by one with their respective attributes.

Admin:

As we have not discussed this module earlier but here, we will discuss its functionality that how this entity is used in the working of the application, admin use this application to give access to the person who wants to register themselves on the website and add the legitimate users on the system.

Event

This entity will keep the records of the happening event in the college and also help in notifying the students so that they can participate in the events which they like to join.

The attributes of the event are as follow:

E-id:

This attribute will uniquely identify the events so that we can add different events to the portal. If we have a different event id then the event will not overlap.

E-name:

This attribute will give an idea to the participants that what is the event all about so that they will prepare themselves according to that. Suppose if the event is a spelling word, then they will prepare for that. So, this is an important attribute for the participants.

E-winner:

This attribute maintains the records of the game-winner so that at the last of the events we can give the award to the winners.

Student

This entity is one of the important attributes which need to be handled by this system so we will discuss the attributes of this entity in brief which are as follows:

S-id:

This attribute will help us in uniquely identified the identity of the student because in college there are many students having the same name and last name so to distinguish among them, we need something that is in. This is different for every student so we can use this to maintain the atomicity in our records.

S-name:

This will tell the name of the students. And also, mentioned it on his card so that teacher can use it to identify the students.

S-branch:

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This will inform us about the branch of the student which will help in maintaining the proper record of the student and give us additional knowledge about the student's profile.

S-result:

This attribute will give you the information about the student result, which will reflect in the result section of the portals. The student will also get their marks through the system after conducting the exams.

S-year:

This attribute will tell us about the year of the student that whether he is a 1st-year student or second year so on. This attribute will help us to decide the fee structure of the student and the courses of the students.

S-contact:

This attribute will provide the information of the student so that we can contact them at any time when we want to inform them of something urgently.

Subjects:

This entity will show the subjects of the students according to the semester wise.

Let us see the attributes of the subjects:

Sub-id:

This will clarify the subject to the students. This will also help in choosing the subjects.

Sub-name:

This will show the name of the subject, it will define the name of the subject so that user can use it.

Fee:

This new entity is fee will help us to maintain the fee amount of the students.

F-id:

Generally, it is known as receipt id which has given by fee department so that user can check his status.

F-amount:

This attribute will give us the information about the amount of fee we need to take from any student, and help in upholding the proper records.

Employee:

This attribute will uphold the information about employees of the college so that we can track their records and take actions related to that. Employees have an aggregation relationship with teacher and worker as an employee can be a teacher or a worker.

Their attributes are as follow:

E-id:

This attribute will help to find the unique identity of the employees.

E-name:

This attribute will tell us about the name of the employee so that we can contact to the employee by their name.

E-DOJ:

This attribute will keep the record of joining of the employee.

Teacher:

This is an important entity let's see its important attributes.

T-subject:

This will describe the teacher's subject that which subject she will teach.

T-department:

This will provide us information about the department of the teacher like CSE, ECE, Mechanical etc.

Feasibility of College Management System

Feasibility is a test of system proposal according to its workability impact on the organization, ability to meet user needs & effective use of resources. Three key considerations are involved in the feasibility analysis are as under.

Operational Feasibility of College Management System

Purpose:

To find out whether the system will be functional after its development and installation?

The Outcomes of The Operational Feasibility Are:

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A system to be developed is a critical need for business purpose only.

Technical Feasibility of College Management System

Purpose:

To examine out whether the current technology is sufficient for the development of the system. An estimate is made of whether the identified user needs may be satisfied using current software and hardware technologies.

The Outcomes of The Technical Feasibility Are:

Existing technology supports the system completely

Economic Feasibility of College Management System

This analysis is the most frequently used method for comparing the cost with benefit or income that is expected from the developed system.

User Interface of College Management System

This is one of the main tasks of the developer to design such an interface that user can use it easily in one word it should be user friendly and for this you should have a better understanding of the audience which going to use this application, initially we need to locate the targeting people that what kind of application do they need. After getting all this information we should start to design the application.

System Requirements of College Management System

- The user should have the appropriate version of windows.
- The system should have up to 1 GB ram minimum requirement for the application.
- The application should be installed on the system.
- Internet Connectivity is a must for this purpose.
- CPU with a speed of 1.3Ghz is a good choice for normal usage.