

# SMART WORKING COLLEGE MANAGEMENT SYSTEM

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## Abstract

Smart College Management System is a web based application which is the new technical way to manage all department related jobs and works. Smart College Management system is helpful for Students, Staff, Office as well as the college. In the existing system all the activities are done manually. It is very costly and time consuming also manual labors include. In our proposed system, students can view attendance, view notice, send Document request, send Bonafide Request using Web application. The data will be stored in college server or cloud server. To store the data, the SQL server will be used. The Admin, Faculty, HR, R & D, Office or the student should be a register user. The faculty can login into their college account through the web application itself and update the attendance report, send notice, send notes for students. In this system students have easy access for viewing attendance, notes, notice, the application will check user authentication.

**Keywords:** Web application, Attendance, Notes, Documents, Leave Requests, Notice.

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## I. Introduction

The main aim of this system is to develop online web platform which covers all the details of college. i.e. Human resource, Finance, Documents, Training and placement, Notices, admission process, Research and development and knowledge management system. The proposed system reduces the paperwork, manual labor as well as communication cost. The system is to provide comprehensive student information system and user interface is to replace the current paper records. College staffs send and uploads college notice, notes, attendance report and send leave request through secure online interface using web application. All the data will be stored on a college server or secure cloud server and validate that before actual records alternation occurs. All the data is stored securely on SQL server and the data will be managed by the senior authority college Administrator. College relied heavily on paper records for this initiative which had its own disadvantage. This is web application which provides a simple interface for maintenance the students information. It is used for educational institutes, college and schools to maintain the records of students easily. This application is developed for daily need of students for requesting documents to office, bonafide request and attendance report also students are able to view notice and notes to related subjects. It can be also being useful in an organization or company at a certain limit not the whole application.

## II. Existing System

There are some drawbacks are present in the system which we are using in nowadays which needs to improve for better performance and easy to access. The existing system is not good at Document request. If any student wants any document the student needs to go office and needs to request in office for Documents this process is same for bonafide. This process is time consuming. And for staff or faculty want a leave the existing system is faculty needs to go at higher authority or HR for leave and this process is manual process. If some students have pending fees, then office inform the student or they show it on notice board. In this completely manual process also papers are used in this process. If the new inventions and research occurs, then the research and development department shows it on notice board. In this process the papers are used.

### Drawbacks of existing system

1. The existing system which we use in our college is a complete manual process and not user friendly because the retrieval of data is very slow and data is stored manually. If use some small technology it is

somewhat complicated and time consuming. These system needs to handle by a special person for maintaining and update the system which can be again costly.

2. If require more manual labor the rotate any notice to each student. And for research and inventions also not able inform all students so existing system refer to show it on notice board this process is paper work process.
3. In this existing system the papers can miss placed and documents can be loss. This will be cause extra work for the admin, faculty and office also stuffs.

### III. METHODOLOGY

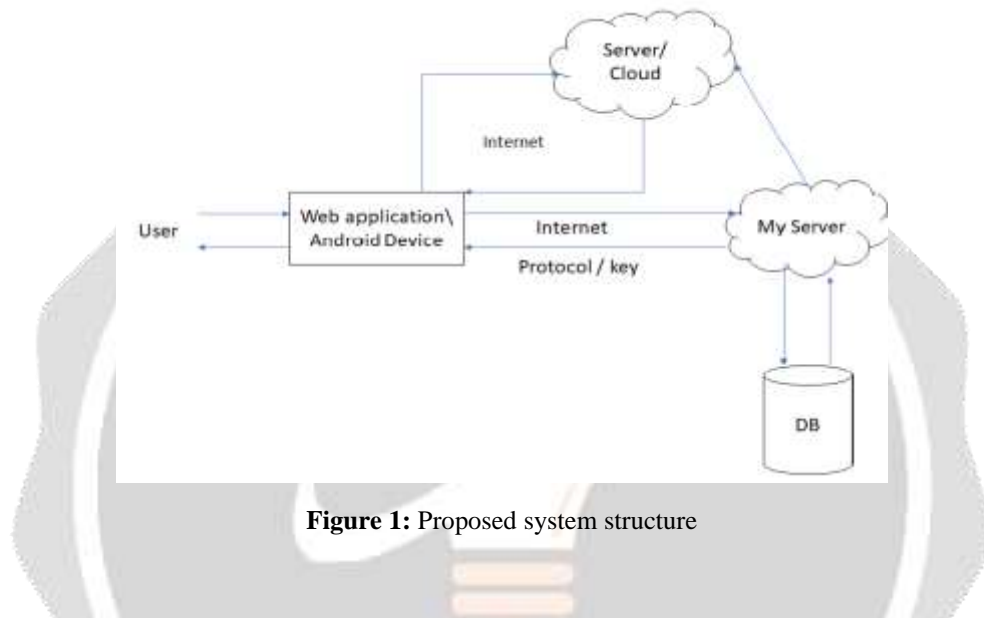


Figure 1: Proposed system structure

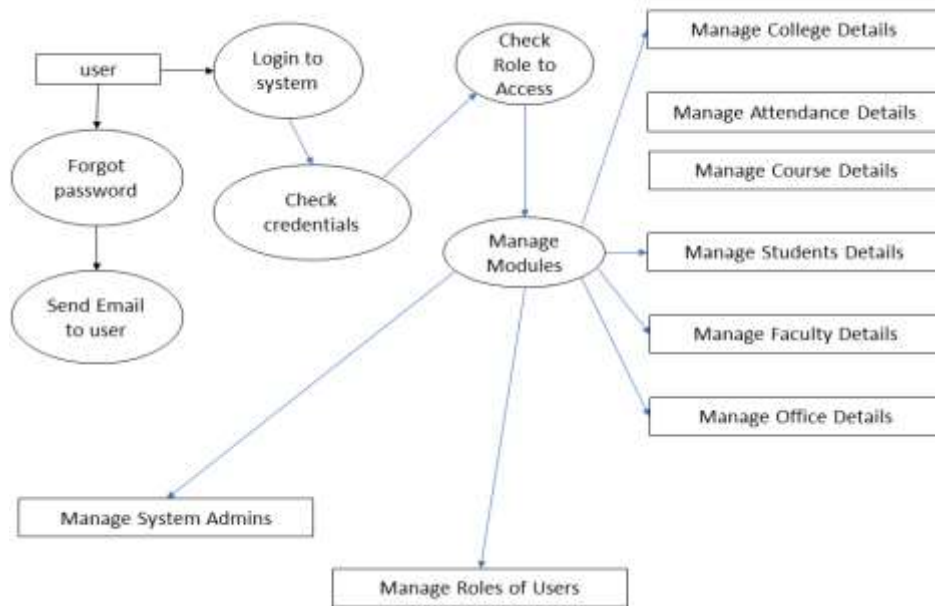


Figure 2: Data Flow Diagram

#### IV. RESULT AND DISCUSSION

The detailed workflow of this web application is as follows. The web application is divided into 6 sub-groups-

##### 1. Admin

- Faculty registration  
The first step in this web application is to get the HOD, staff members and teaching faculty registration. They need to the first register with their Email id in the database. The respective person will then provide his or her Email Id and password for registration.
- Show all faculty  
Show all faculty sub-module show all the faculty of the college. That faculty shows as per department.
- Subject mapping  
This sub module is to assign the subject to the faculty. That assign the subject to the faculty as per Department.
- Add Department  
To insert and delete the department of the college. If the college is adding the extra department in the college or college dropout the one or more department in the college we can easily add or delete department from the web application.

##### 2. Office

- Document  
That sub module contains the request of the students for the regarding document. Office can send to the document as per student.
- Bonafide  
That sub module contains the request of the students for the Bonafide. Office can send to the Bonafide as per student.
- Fee upload  
Office can upload the fees of the students. That sub-module shows the how many student pays their fees and how many students not pays their fees. Also shows their remaining fees of the student in the pending.
- Fees setting  
That sub module is most important to the office. Office can set the student fees. That student fees set as per scholarship, tuition fees, development fees and other fees regarding to the college.

##### 3. Student

- This sub-module is important to the student to fill registration form. This form filled from the student only one time. This form is important to the office for the maintain the student's records also important for student. This form contains student personal information, address information and educational details. Also student upload their document on the web application. After filling the form student account will be created.
- View notice  
Notices are sent to the students by faculty, HOD or admin. Useful information, college notices, important announcements are received in that sub-module. They can view it anytime.
- View notes  
Students can even view notes uploaded by the faculty. They can view it anytime. Also faculty send the test for the student. They can attend the test from the web application.

- Document  
Student can send the request to the office for document.
  - Bonafide  
Students can send the request to the office for the Bonafide.
4. Faculty
- Send notice  
Faculty can send notification to students, or some selected student wants to communicate his message to. Notifications related to college meeting, seminar important information, training and placement related information.
  - Upload Notes  
Faculties can even upload notes of the students. The Students can directly check their notes through the web application
  - Attendance report  
A report is generated which has the student's name, roll no., students attendance. This module categorized student according to their attendance.
  - Leave request  
Faculty can send the leave request to the college HR. That request contains how many days leave, reason of leaves information.
5. Human resource
- Leave request approve  
HR can accept or reject leave request of the faculty's
6. Research and Development
- Invention  
College faculty or student can invent one things their information can upload on the web application. They can upload their research paper, photos, and other things.
  - Project  
College student's projects can upload on the web application. That projects can separated by the department.

### Requirement Analysis

#### A. Hardware Requirement

1. Intel Quad core 2.30 GHZ processor or above.
2. Minimum 50 GB HD.
3. Minimum 4 GB of RAM.
4. Standard keyboard and serial mouse.

#### B. Software Requirement

1. Visual Studio
2. C# .Net
3. HTML, CSS
4. SQL Server

### V. Benefits of proposed system

1. The Proposed web application will be very simple and easy for handle and use it will also simplify and speed up the result preparation and management process.
2. Single software to manage all college related information from anywhere in the college.

3. Better informed decision making for management, an application will also do the promotion of the college.
4. Students do not need to check the notice board every day and every one will stay updated.
5. A move towards paperless system and it also Boosts the connectivity and engagement.

## VI. Conclusion

It provides high security and a system that reduces the work and resources required in the traditional process. The proposed bootstrap system provides the new way of computing and displaying operations with responsive and attractive user-interface. College activity management system is customizable and is related very satisfactory in terms of functionality, user-friendliness. Usability, mobile-friendly and performance, it is implied that other colleges may adopt this system for more efficient information management and more effective management decision. This web based application project will do the task through the application. It will decrease the paper work. The admin, faculty, student, office, R & D, HR, will perform all the task very easily and more convenience way. The application offers reliability, security, time saving and easy control.

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