

# “College Mitra” A Web Application for Classroom Management System

<sup>1</sup>Jayesh Satpute,<sup>2</sup>Sakshi Gawande,<sup>3</sup>Pratiksha Gawande,<sup>4</sup>Shrutika Ghate,<sup>5</sup>Rupali Sawant

<sup>1,2,3,4</sup>Students,<sup>5</sup>Assistant Professor

<sup>1,2,3,4,5</sup>Department of Computer Engineering,

Jagadambha College of Engineering And Technology Yavatmal

## Abstract:

This paper is aimed at developing an Online Classroom Management System which is important to either an educational institution or a college. "College Mitra" is a web application to automate and log on to various day-to-day activities and to provide instantaneous information required for the effective management of any classroom. Students and staff can use the web application to access a number of features. This system can be used to conduct virtual classes with students and keep track of their attendance. The Application can provide features such as a discussion forum for the students, Easy access to study material and join live classes.

## Keywords:

Classroom Management System, Virtual Classrooms, Administration, Student Information.

## Introduction:

The application is named "College Mitra A WebApplication for Classroom Management System" which is a web-based application. The students will benefit most from this application, which will be most convenient for their study needs. Because this application has useful features that the students will use. In this application, there have three panels. Admin, Teacher, and Student panel. With this application, students can join their online classroom. They can attend their class lecture from the classroom which has been provided by the teacher. The students can access previous years' papers and other assignments. The students can comment on any other post. They can submit their assignment in the classroom. They can see the total students of their classroom. By using this application teachers can post the class materials such as course syllabi and handouts classroom for the students. A teacher can give any declaration of study purpose of the student. The teacher can create classwork in the classroom. Administrators can add any department, teacher, course, and more with this application. An administrator can add new users and edit, change, and delete existing content. By using this application admin can check the current state of the portal, total students and teachers, total department, and how many courses are under the department of the department everything can monitor. By using this application admin can access the all of portals. As a result, the goal was to simplify the student's study easier and let them move forward.

## Literature Survey:

All of the work in the current systems is done by hand, and all of the data is stored in registers and files. The record of each and every understudy, course, and instructor is taken care of physically. If we want to access any student information then all the details can't receive in one file only. There is a need to search lots of records and file registers. In the current mode of working first all the information is received and then fill up in the registers. If we want to check any student details like updating or deleting information it is very difficult to search all records also it is a very time-wasting process. The same case happens to staff. When any student will pay the funds or fees they will also store them manually.

**Existing System:**

The current framework was helped out through a manual cycle. It is difficult to maintain the records in the existing system. The process of looking for a particular record takes a lot of time. There is a possibility of making mistakes. The time it takes to update and retrieve information in this current system is longer. Even though it had an information system, it was a manual system, so it needs to be upgraded to a computer-based information system.

Disadvantages: The disadvantages of the existing system are:

- Manual process
- Maintenance of the records is difficult.
- Chance of occurrence of errors.
- Involves a large amount of paper work.
- Time-consuming process.
- Slow Updating and Renewal of Data
- Physical presence of teacher and student is needed.
- Teacher get more work load in time of examinations.
- The Voice may not be available to all students.
- Some of the students may not clearly express their doubts in front of the instructor.

**Proposed System:**

The virtual homeroom permits educators to convey electronic preparation to geographically scattered workers, colleagues, and clients. Live classroom discussions can be held in the virtual classroom. There is a synchronous chat room for students and groups to discuss each topic. Good virtual classrooms are easy to use and have built-in collaboration tools that help students actively learn.

Some of the features of the proposed system are:

- There is no need for to presence of both instructor and student at the same time
- More than one student can clear their doubts at a time.

The classroom management systems also have modules like

- Students Management: - The student module enables you to accumulate all personal, academic, professional and historic data regarding the students. historic data regarding the students.

Features: • Maintain a record of all important details about every student. The record can be edited as per requirement. • Course can be changed easily. • Students records can be filtered based on the course & batch.

- Examination Management:- The examination is the admirable module that covers execution, planning, maintenance ,and monitoring progress. The result of various exams like competitions, sessional papers and semester exams can be displayed online.

Features: • Online result of every exam. • Send result of every exam or test to parents mobile automatically. • Get details of every test or exam, student-wise, course-wise or batch wise.

- Manage Attendance: - This module is very much helpful to manage attendance of students of all courses and batches. Absentee remarks can be managed very efficiently.

Features: • Manage attendance course & batch wise. • Summarized attendance can be viewed. • Overall absentee reports with remarks can be viewed.

- Project: This module is very helps to explore the projects done by the students and staff members.  
Features: • Explore the projects. • Understand the project contributors. • Get the source code, add new features, and commit changes.
- Online class: This module very helpful to students and staff members they can conduct online classes from their comfort zone. This feature can help for the easy understanding of topics and syllabus cover.

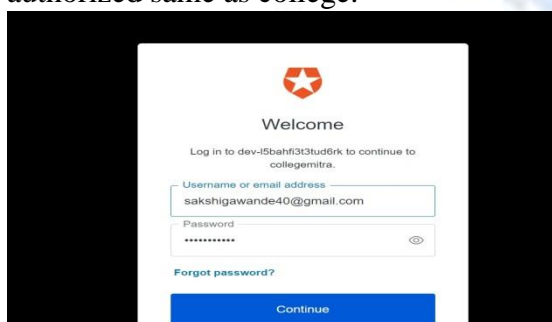
Features: • All the students can attend the online class from the one platform • Students can raise doubts in and after the class. • Students can easily access the study material and join the class with respective of their current class.

### Conclusion:

This application will give the flexibility to those students as well who do not have time to attend there college due to their busy schedule of job and some of the people is not able to join college due to their financial issues, so its best web application to get education in virtual platform, as we have seen so many other site who are providing online course but mostly they are providing course which may not in sequence and moreover not authorized from a particular college or university ,here we develop this application for a particular college where the person can get admission as a proper student and can get the certificate too which will be authorize same as college

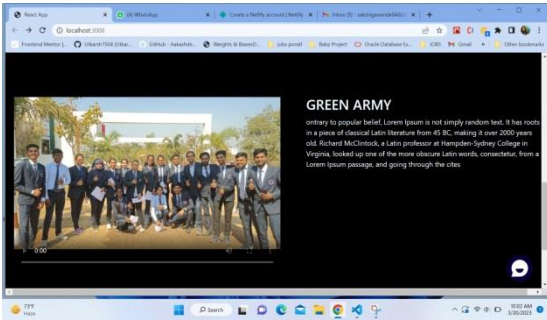
### Result:

This application will give flexibility to those students as well who do not have time to attend college due to their busy schedule of a job and some people is not able to join college due to their financial issues, so it's the best web application to get an education in a virtual platform, as we have seen so many other sites who are providing online course but mostly they are providing a course which may not in sequence and not authorized from a particular college or university, here we develop this application for a particular college where the person can get admission as a proper student and can get the certificate too which will be authorized same as college.



The login page for students and teachers.

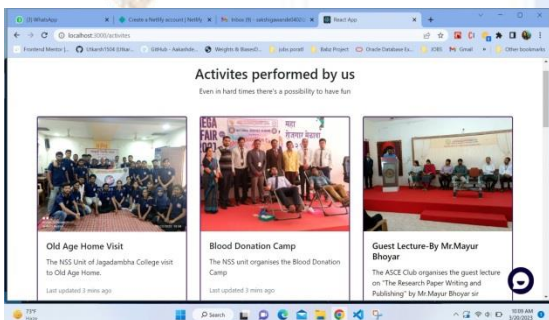




The Main page of the web application.



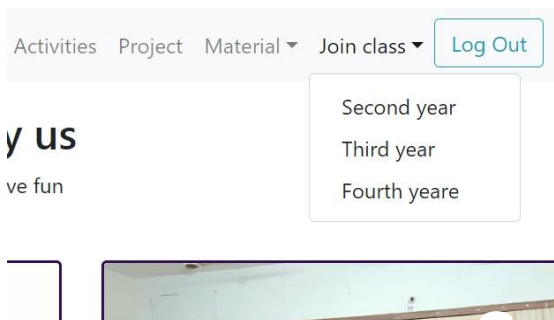
Students can download the study material respective to their current class.



Activities section to get aware of activities and societies in the department.



Chatbot in the webpage to get queries resolved of students.



Join class module that ease students to join respective of their class.

## Future Scope:

A facility for the online examination can be added in the future. Students can apply for special courses and online payment facilities Are also available for them. A Group Discussion module will add for Students so that Student can discuss their doubts. The top scorer of that exam will be displayed on that website they will be rewarded. The solution to this examination also is available, along with an explanation.

## Reference:

- 1] A Research Paper on College Management System, Lalit Mohan Joshi M.tech scholar BTKIT Dwarahat, Almora, Uttarakhand, International Journal of Computer Applications (0975 – 8887) Volume 122 – No.11, July 2015
- 2] Web Application On Coaching Class Management System For Siddhant Education Services. Swati Shinde<sup>2</sup> , Shital Mohite<sup>3</sup> , Snehal Dalvi © 2018 JETIR November 2018, Volume 5, Issue 11 www.jetir.org (ISSN-2349-5162)
- 3] Web Based Coaching Institute Management System Mayuri Kamble<sup>1</sup> , Vidya Bhuvad<sup>2</sup> , Omkar Keluskar<sup>3</sup> , Vinayak Malavade<sup>4</sup> Mayuri Kamble et al, / (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 6 (2) , 2015, 1341-1344
- 4] Attendance Management System for Educational Sector: Critical Review Zainab Hussein Arif<sup>1</sup>, Nabeel Salih Ali<sup>2</sup> , Nurul Azma Zakaria<sup>3</sup> , Mohammed Nasser Al-Mhiqani<sup>4</sup> IJCSMC, Vol. 7, Issue. 8, August 2018, pg.60 – 66
- 5] Chat-Bot For College Management System Using A.I Prof.K.Bala<sup>1</sup>,Mukesh Kumar<sup>2</sup>, Sayali Hulawale<sup>3</sup>, Sahil Pandita<sup>4</sup> International Research Journal of Engineering and Technology (IRJET)
- 6] Implementation of a Chatbot System using AI and NLP Tarun Lalwani, Shashank Bhalotia, Ashish Pal, Shreya Bisen, Vasundhara Rathod International Journal of Innovative Research in Computer Science & Technology (IJIRCST) ISSN: 2347-5552, Volume-6, Issue-3, May 2018 DOI: 10.21276/ijircst.2018.6.3.2
- 7] “College Mitra” A Web Application for Classroom Management System Jayesh Satpute<sup>1</sup> , Sakshi Gawande<sup>2</sup> , Pratiksha Gawande<sup>3</sup> , Shrutika Ghate<sup>4</sup> , Rupali Sawant<sup>5</sup> 1,2,3,4,Students Department of Computer Engineering, Jagadambha College of Engineering Technology Yavatmal 5Assistant Professor Department of Computer Engineering, Jagadambha College of Engineering Technology Yavatmal International Journal of Aquatic Science ISSN: 2008-8019 Vol 13, Issue 01, 2022