

Web Based Classroom

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ABSTRACT

During covid-19 pandemic, classrooms has been shifted to an allonline process. Also, other processes of the institute like attendance, assignments posting, assignments submission, quizzes and even examinations are now conducted online by the assistance of various platforms. So, with the implementation of this project "Web Based Classroom" here are going to be functioning on a number of the challenges faced while conducting classes in an internet form and would be trying to supply a feasible answer to it. This platform will beneficial in some ways prefer it will provide a customized kind of learning. The features included in my project are doubt posting, Instant messaging, Teachers can upload study materials, homework and quiz inquiries to student so all this could be easily accessed from one place thus making the method more convenient. Teachers may allocate class link to the topics in step with the program of every class this can help them share their class link with the coed who are attending that class. Also, the portal provides a notification feature where users will receive notification for any activity related to them like they get a post, message and other activities. This portal has an admin, Faculty and student's access.

INTRODUCTION

Web based classroom refers to the kind of learning that uses the web as an instructional delivery tool to hold out various learning activities. Web based classroom also improves access to advanced educational experiences by allowing students and instructors to interact with one another in a good way and to enhance the standard and effectiveness of education by using the pc to support a collaborative learning. So, for the fulfillment of the target here am implementing features like Doubt Posting, firstly as an internet class is time bound where a tutor must cover a particular a part of syllabus on time so as to finish the syllabus on time and as most of the institutions uses zoom and google meet platform which have time bound so to unravel this issue a student can register during this portal where they will post their doubt instantly when it involves their mind and other registered members of the portal can provide answer thereto and also this portal provides a platform for its users to ask doubts and other quires outside of the 45 min time bound classes on zoom and other platform. Instant Messaging, users will use this to message to a specific teacher just in case the user wants more elaborate explanation to something. Using this portal teacher even have provision of uploading required things of scholars in order that all this may be easily accessed from one platform thus making the method more convenient. supported the time tables teacher also can allocate class link to the themes of particular classes. Also, this portal provides a notification feature where the users will receive notification whenever they get message, post and for other activities. this may reduce the method of sharing the items associated with students through the utilization of external application.

RELATED WORKS

This portion gives the general view of literature survey. This portion represents a number of the relevant work done by the researchers.

[6] The purpose of this paper is to seek out the challenges and opportunities for teaching in virtual classroom. the present system discovers the challenges but not properly solve the problems. a



number of the challenges faced by teacher and student are Lack of interest within teachers to find out and adapt to new learning situations – it's been observed that there's an absence of motivation and interest among some teachers to find out new things, as they often feel that ICT based learning is just for college kids of science stream. whether or not it's learnt, teachers should use the techniques regularly, otherwise is also difficulty in retaining the knowledge, Lack of awareness among the scholars regarding the importance and benefits of virtual learning.

[8] The aim of the second paper implements a software (virtual classroom) to create the education system easier but the present system is time limited for considering read responses. the tactic of virtual learning can affect the performance of some learners and that they might not be comfortable with it, Effective learning in virtual classroom depends on the features of the pc system and quality of Internet connection, the degree of interaction is low, it's going to take time to present feedback and also the interaction between the users is proscribed, the users are isolated from one another as they are doing not have any live contact.

[10] The third paper is predicated on identifying the challenges that are faced by the scholars by using virtual classroom. Since virtual classrooms require the teacher and also the students to be within the same space in real time, internet bandwidth, ground noise and time boundation are often the challenges faced by the users during which it's going to cause loss focussed. Other challenges like multimedia-usability and technical issues are studied and these were experienced by a little number of scholars.

The above papers are giving the overview of literature survey related to web-based classroom. By implementing this system, the virtual teaching method will be easier for both student and teacher. This system will ideal for distance learning situation.

PROBLEM FORMULATION

The existing system is efficient but: The existing system is efficient but: have a time limit, most institutes use the Zoom platform, which have a 45-minute time limitation for every session. Another one is that the user must have an google account for using google services like google classroom. Institutes are using google services which don't seem to be control by themselves like they're not the admin of that services.

METHODOLOGY

In this work, we are working to implement a system which will help the user access to coursework from anywhere at any time: you've got the liberty to review and complete your coursework 24/7 from anywhere you'll be able to do your schoolwork back at the hotel, while you're looking ahead to a flight. All you would like is your laptop or other digital device. One can get solutions for his or her quires instantly 24*7 outside of the 45 min time bound classes on zoom and other platform. This system is customized style of learning, easy to access, cost effective, flexible, and can have learning experiences through virtualization.

This proposed system provides option for different users using the website like student, teacher, and administrator. If the user login as student, then they get the feature of doubt posting using which users can post their doubt in the portal, Instant Messaging, users will use this to message to a particular member of the portal, user can get the study materials and assessment link post by the teacher and can get the time table where the classes link are allocated to the particular subjects. Teachers can view and post replies for the doubt posted and messages by the student. They can have provision of uploading study materials, can share classes link by allocating the particular subject link in the time table and can also create assessment for the student so that all this can be easily accessed from a single place. Users can get notifications for any post, message and for other activities. Administrator can manage all the activities and all the members in the portal.

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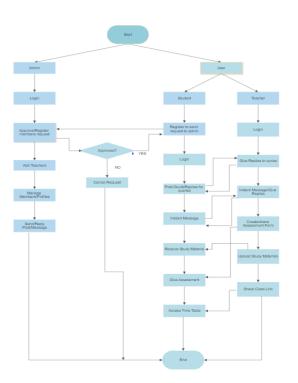
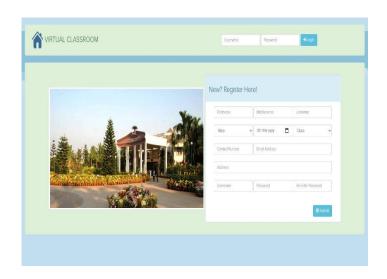


Figure 1.1: Flow diagram

The "web-based classroom" portal's working flow is depicted in the diagram above. The user must first submit a registration request to the administrator, who must then confirm the request before the user can connect and use the portal's services such as posting questions, instant chat, access assessment, time table, study materials etc.

RESULT AND DISCUSSION

After successfully implementing all of the features of the webbased classroom, have discovered that each one of the modules are error-free which all of the info is stored correctly and easily within the database. Even after being hosted on the AWS infrastructure, the portal is fully functional. Because cloud hosting servers are available and accessible via the web and with any PC or mobile device, from any point round the world, one may now access this portal employing a laptop or a mobile phone from anywhere. Organizations can even have their own control on this service like they no must use google based services which are controlled by somebody else.





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Figure 1.3: User Home Page

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Figure 1.4: Admin Home Page

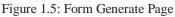
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CONCLUSION

In this paper, A web-based classroom is a web teaching and learning environment where teachers and students can present course materials, engage and interact with other members of the virtual class, and add groups together. Web based classroom benefits in some ways. This project web-based classroom reflects the effectiveness and therefore the way of solving the challenges faced by student and teacher while using virtual classrooms. the most important reason for this method of education is student comfortability. By using this application Access to coursework from anywhere at any time: you've got the liberty to check and complete your coursework 24/7 from anywhere you'll be able to do your schoolwork back at the hotel, while you're looking forward to a flight. All you would like is your laptop or other digital device. Effective time management: an internet education provides a welcome environment for working adults who have to balance work and family with the new demands of going back to high school. Right away, you save hours hebdomadally not having to commute back and forth to classes on a campus-and that's just the start. Going back to high school sharpens your timemanagement skills, because you have got to be disciplined and find the time to review. One can get solutions for his or her quires instantly 24*7 outside of the 45 min time bound classes on zoom and other platform. this method is customized type of learning, easy to access, cost effective, flexible, and might have learning experiences through virtualization.

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