All In One E-Learning Web Application

Miss. Sadalkar Sheetal Ramesh[1], Miss. Shirahatti Sayali Subhash[2], Miss. Powar Rutika Maruti[3],
Miss. Patil Pranjali Vitthal[4], Prof. Patil P. B.[5]
[5]Asst. Professor
[1, 2, 3, 4, 5] Sharad Institute of Technology College of Engineering, Yadrav. Maharashtra, India.

Abstract- Web based learning (E-learning) is an emerging medium in Education, which known as the result of integration of Education and Technology with particular use internet technologies. Simply, A learning system based on formalized teaching but with the help of internet. The undeniable growth of E-learning in education leads increase in E-learning courses and systems which offers different types of services.
This paper proposes the idea of application which will provides all the E-Learning features on single platform with some new methods for conducting Exam, assessments in an simple way.

Keywords- Web based learning, internet, All In One E-Learning, Single platform, methods.

I. INTRODUCTION

Internet is an innovation which made world as a global village. In early times outspread of knowledge is difficult. But now it's very easy to learn due to Internet. Internet helps education system a lot.

web based learning provides a new way to learning. It's an opportunity for learners. Different apps are now working on the concept of E-learning.

In pandemic situation like covid19 it is really impossible to attend the classes physically. Now we have a solution of virtual classes for academics. But still students struggle a lot to learn through online platform. Now a days E-Learning becomes most popular concept among trainer and learner. It is effective platform for students and teachers to getting their work can easily available. It provides a lot of new features which makes the user happy, satisfied.

There are numerous E-learning application available now in the market each application provides different functionality in their own innovative way. It's difficult to find an application which provides all learning features on same platform and hence students have to use different applications for different activities. The main objective of our proposed system is to provide solution for these problems. As if they want to submit their assignments, they need an application along with scanner feature because most of the student submit

their scanned assessment. It's really helpful to students if they get both the features in one application along with other features like live class, attendance system, Examination system, online notice board, feedback and queries system document sharing system, video lectures system, previous year books, question paper system.

Two entities are listed out as involved e-learning system as the trainer & the Learner.

Learner:

- Attend live lectures
- Give attendance with face detection method
- Exams
- Feedback Input
- Learning Assignment
- Scan documents
- Learn through video lectures
- Online notices viz.

Professor (Trainer):

- Arrange online lectures
- Recording attendance
- Online Exam preparation
- Result Assessment
- Assigning tasks to students
- Prepare Feedback Output
- Interaction with Students viz.

II. LITERATURE REVIEW

Education has grown rapidly and stimulated the adoption of e-learning, which may be a direct result of the mixing of education and technology and is deemed to be a strong medium for learning (Al-Fraihat, Joy, & Sinclair, 2017).

Donna j. Abernathy said that online learning isn't subsequent big thing; it is the now big thing.

E-learning has become mainstream within the education sector and has been massively adopted in education.

E-learning is a flexible platform where it removes the barriers such as, place, customs, and values of a person. E-learning gave a new dimension in today's education system to improve the standard of data. We live during a globalized era, where internet is massively getting used by everyone. Hence the sector of education trying to enhance their standards by the online which connects the space learning with their learning material. The successful implementation of e-learning tools depends on whether or not the students are willing to adopt and accept the technology. Thus, it's become imperative for practitioners and policy makers to know the factors affecting the user acceptance of web-based learning systems so as to enhance the scholars learning experience.

Existing system:

The existing system like classroom learning or traditional learning system provides high face-to-face interaction between student and therefore the teacher and also teamwork activates can do easily within the fixed period of time.

Proposed E learning platform:

Developed system provides facilities and increase flexibility. In e-learning the time isn't fixed and it reduces the training time of the scholar. It gives differing types of learning styles which give better training. It provides access to information. E-learning encourages students to require personal responsibility for his or her own learning and empowers the scholars to be in charge of their studies. It helps the students to develop their self-skill and self-directed learning.

According to John Chambers CEO of CISCO systems. There are two great equalizers within the life the web and education. By combining the 2 E-learning are going to be the good equalizer within the next century.

By eliminating the barriers of time, distance, learner can now take hold of their lifelong learning.

The reason of E-learning satisfaction is technical system quality, information quality, service quality, network quality, learner quality, instructor quality, which together explain 71.4% of the variance of perceived satisfaction. The importance given are technical system quality, information quality, network quality, learner quality, and instructor quality, and these explain 54.2% of the variance of importance given. Four pillars were found to be the reasons of E-learning use, namely educational system quality, network quality, learner quality, and perceived usefulness, and together they account

for 34.1%. Finally, 64.7% of the conflict of e-learning benefits was explained by perceived usefulness and satisfaction.

Innovations in learning process needs to be real and simple to help adults find how to solve their problems preparation of training is needed following a specific employer demand and knowledge sharing has got to be equally vigorous on both interested sides.

III. METHODOLOGY

Our proposed system is mainly based on innovation in Education field. Generally, an E-Learning system works on different components or modules. In our proposed system model, which consists of following features or modules. Appropriate information and working of Each module of system is explained as below:

Online classes:

Most prior feature of E-learning platform is online lectures. As per the Existing system, for online lectures user have to use different applications which can help them only in attending classes, no other required academics features are given there.
So, it's convenient to students if they get live class option with all other options (features are as mentioned below).

Examination

Many options are available to conduct online examination. Such as sharing google form link or by using any particular application with its specific process. Except of all this admin is not able to avoid student's misbehavior during examination. So it is not being as appropriate as it wants to be. To avoid cheating in exam we have an option of sharing screen recording, web cam and microphone voice recordings with Examiner. This feature is beneficial to stop cheating during examination.

Assignment Submission and scanner

More often students share their scanned assessment papers with teachers on social media groups or through mail.
So, we have option for students to scan their docs. Hence no need to find any other application for scanning purpose.

Attendance

System has the feature of Attendance record with face identification. In this system by identifying student face,

student's attendance will be marked on excel sheet which allows access to only for teachers.

Feedback and queries

In feedback management module students are able to give feedback for each subject from their login. Only an authorized person can view their feedback.

Also, discussion on any queries is getting done at the same place.

Notice

Notice about events, forms, timetables are given by teachers through noticeboard.

Video lectures

In absence of students their syllabus recorded video is available on their video lecture feature. online class is to share video lectures with students. So, if student is unable to attend any online lecture, they can go through recorded video lectures.
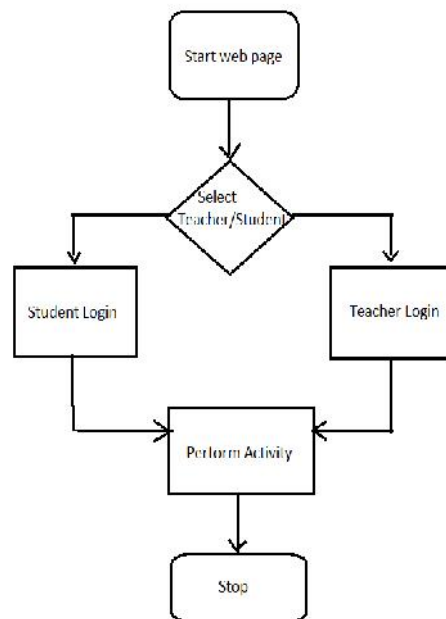
Document sharing

For documents sharing you can use this option.

Previous years books and question paper

There is no need to search the previous year's question paper anywhere as system provide this option for previous years question papers and books.

IV.FLOWCHART

V. PSEUDOCODE

1. Open E-learning app in your device
2. Choose appropriate option
   a) student login
   b) teacher login
3. Perform desired activities as per your choice

For example,
For teacher:
    a. Create online exam
    b. Give assessment.
    c. Give notice
    d. Take feedback from students. Viz.
  II. For student:
    a. Attend online exam
    b. Attend lectures
    c. Give attendance
    d. See notice. viz

VI. CONCLUSION

All in one E-Learning web application provides many useful features on one platform. It helps users to manage their work in easy way.

E learning is not only a change in technology but also is part of redefinition of how people transmit knowledge,

skills and values to their younger generation and it serves will continue to develop.

However, after the hype of the new economy, growing disenchantment with E-learning has replaced over-enthusiasm.

REFERENCES

[1] Fernando Alonso, Genoveva López, Daniel Manrique and José M Viñes , "An instructional model for web-based e-learning education with a blended learning process approach ", British Journal of Educational Technology, 2005.

[2] Jesús Valverde-Berrocoso , María del Carmen Garrido-Arroyo 1 , Carmen Burgos-Videla 2 and María Belén Morales-Cevallos , "Trends in Educational Research about e-Learning: A Systematic Literature Review(2009-2018)" , 24 June 2020.

[3] Dimah Al-Fraihat , Mike Joy, Ra'ed Masa'deh, Jane Sinclair " Evaluating E-learning systems success: An empirical study", sciencedirect , 2020.

[4] "Literature review on e-learning", Research in Digital Revolution and New India,

[5] Popescu, "Adaptation provisioning with respect to learning styles in a Web-based educational system: an experimental study", Blackwell Publishing Ltd Journal of Computer Assisted Learning , 2010.

[6] Chirag Patel, Mahesh Gadhavi, Dr. Atul Patel "A survey paper on e-learning based learning management Systems (LMS)", International Journal of Scientific & Engineering Research, June-2013.

[7] Hoic-Bozic, N.; Mornar, V.; Boticki, I.; , "A Blended Learning Approach to Course Design and Implementation," , IEEE Transactions on Education, vol.52, no.1, pp.19-30, Feb. 2009, doi: 10.1109/TE.2007.914945.