

MOODLE BASED E-LEARNING

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Abstract: Nowadays, with the use of technology and the Internet, in education field there are useful changes done, new ways of teaching and learning. One of the widely methods of teaching used to promote knowledge, consists in the use of virtual environments available in various formats, taking as E-learning is an emerging field as a promising instructional medium as well as a ripe arena in which to conduct research on its impact on teaching and learning activities. Moodle is one of the e-learning portals developed using the Learning Management Systems (LMS). LMS means, using the Moodle platform, that e-learning portals can be modified according to the school or agency's preferences or required features.

Keywords: *E-learning, Moodle, Course development, Online Assignment, Quiz, Communication.*

I INTRODUCTION

E-learning is a process of education in electronic form through Internet network or the Intranet with the use of management system for education E-learning involves searching for methods to reduce the problems caused by the distance between the teachers and the students. Moodle is a template-based system to which content must be added. This makes Moodle's interface very intuitive and allows for easy navigation. The whole page is presented in a "flat view" format. It is laid out in small blocks and organized around sections following a topic or weekly outline. Each section has its own tools such as lessons, quizzes, assignments, and forums. All blocks on a page can be individually arranged, and the elements within each section can be easily moved around or be hidden Performing the learning process with the help of e-learning media means that teachers and learners are not required to meet each other, so the learning process can still go on. By that means, learning materials are sent by the teacher to learners via electronic media, such as computers and smartphones. The materials can be in form of a slide presentation,

audio or video files, or a combination of those three examples.

Moodle is a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalized learning environments. You can download the software onto your own web server or ask one of our knowledgeable Moodle Partners to assist you. Moodle is a free and open-source learning management system (LMS) written in PHP and distributed under the GNU General Public License. ... With customizable management features, it is used to create private websites with online courses for educators and trainers to achieve learning goals.

The training and education are learning environments in which there is need to use modern approaches to explore the various aspects of topics. There are number of software and hardware tools available for learning .Many of learning systems are closed and some are open. Virtual learning environments (VLEs) such as Moodle are now widely used in universities and other organisation. Moodle is a open source Learning Management System (LMS).One crucial factor in the successful employment of such platforms is the ability and commitment of teaching staff to adopt the system. MOODLE stands for Modular Object Oriented Dynamic Learning Environment. It is just like Virtual University or College. It is quality tool for E-learning. Moodle is a web application written in PHP.Moodle is designed by artin Dougiamas establishehttp://moodle.org as a site for user interaction and support. The site is one of the most active and useful sites. It isn't unusual for as many new users to enroll daily to make use of the various courses and forums. Discussion areas are available for each major feature of Moodle as well as for those under development and testing. There are also

courses for users of Moodle in 65+ languages and dialects, and a Teachers Hands-on Playground where teachers can take full control and experiment with Moodle's features .Some points related to importance of Learning Management Systems:

1. Enriches learning experience
2. Increase student's participation
3. Manages contents delivery
4. Standardized format can be used for contents and can share contents of course

By using Moodle, the students have the opportunity to access learning materials, interact with teachers and colleagues and receive specific tasks as homework's secure.

II PROBLEM STATEMENT:-

We are creating a secure eLearning platform where user is free to get knowledge, and provide knowledge if he wants, we are using Moodle it's an open source eLearning platform to make it secure.

E-learning is becoming one of the most important educational means. As more and more organizations and institutions are moving towards the e-learning strategy, personality-learning model becomes a big challenge. Learning styles, academic achievements and learning objectives of various groups of students on the network are very different. Personality learning system, which uses different learning programs for different students, can enhance the efficiency of learning process. Focusing on the personality learning, the article explores a new method that the net learning system ex- poilt intelligent reasoning service to provide the learners with personalized teaching resources and teaching styles.

III. DESIGN AND IMPLEMENTATION:-

A software requirements specification (SRS) is a document that is created when a detailed description of all aspects of the software to be built must be specified before the project is to commence. It is important to note that a formal SRS is not always written. In fact, there are many instances in which effort expended on a SRS might be better spent in other software engineering activities.

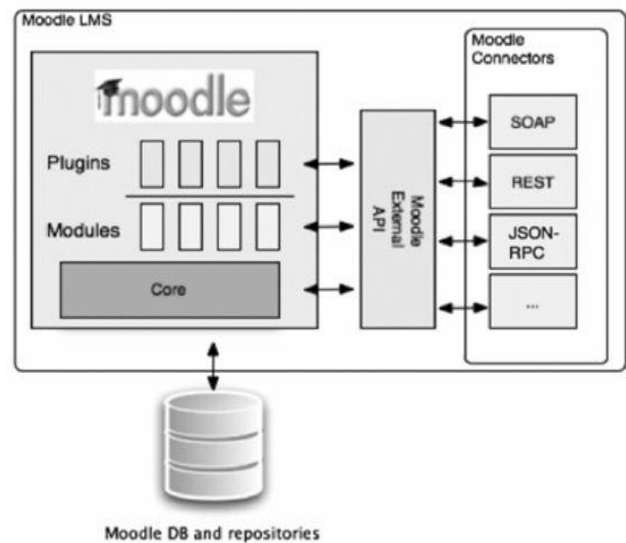


Figure 3.1: Moodle implementation diagram

GPIO:-

Sensor will send data using GPIO pins. We need appropriate GPIO library.

Memory: -

Our device have 8GB memory card. Software and database cannot exceed this amount. Device will have a SD card slot and the software must be able to read and write to that slot . Moodle provides various modules for training and education to students and learners. The basic structure of this platform is depend upon the hierarchical approaches shown in Fig.3.1

Plugins:

Plugins are a flexible tool set, allowing Moodle users to extend the features of the site. There are hundreds of plugins for Moodle, extending the features of Moodle's core functionality. Each plugin is maintained in the Moodle plugins directory. As of April 2015, there are over 1,000 plugins available for Moodle with over 7 million download

Themes:-

Graphical themes for Moodle can be installed to change the look and functionality of a Moodle site or of an individual course.

Translations:-

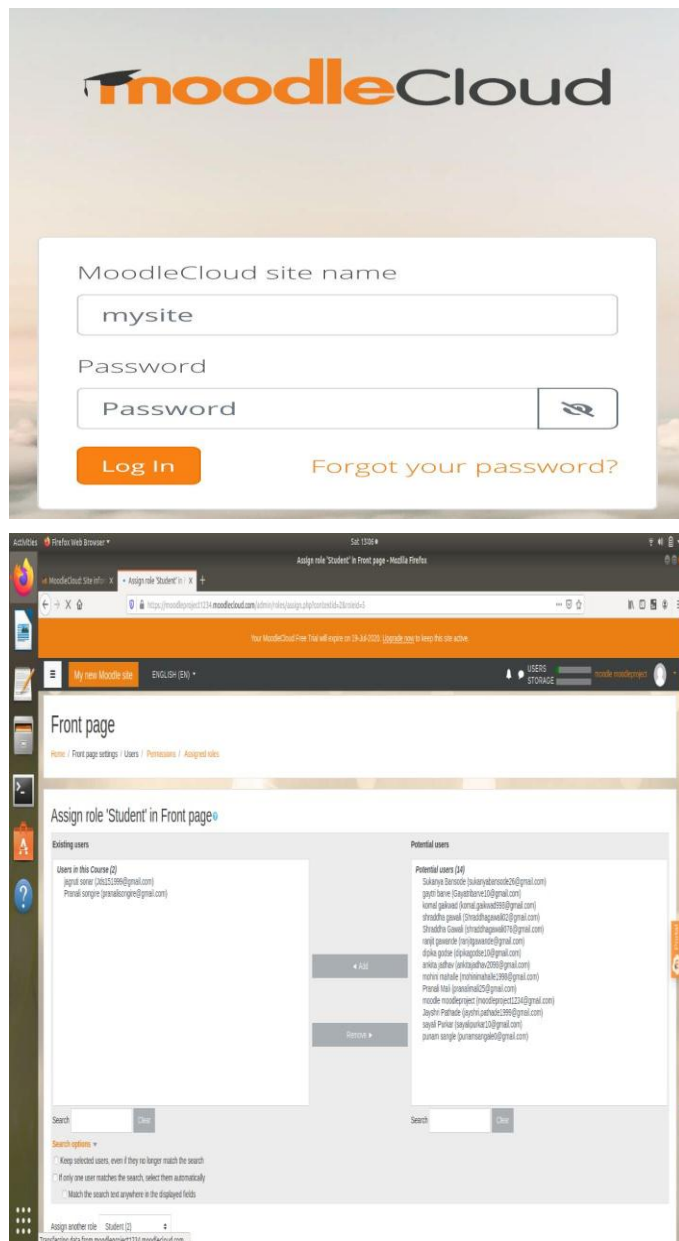
Moodle has been translated in over 100 languages, available for any site administrator to install People in various countries maintain and contribute to the various language packs.

Mobile:-

Many Moodle themes, based unresponsive web design, allow Moodle to be used on mobile devices. Also, a Moodle mobile apps available in Google Play App Store (iOS), and the Windows Phone Store.

IV SYSTEM ANALYSIS: -

It may help collecting management in details. In a very short time, the collection will be obvious, simple and sensible .It will help a person to know the management of passed year perfectly and vividly. It also helps in current all the works relative to e-learning application in a efficient manner.



V CONCLUSION:-

E-learning as a teaching-learning mechanism offer tremendous opportunities for learning beyond boundaries. Using e-learning an active teacher can reach to thousands of learner’s .Our paper is overcoming the drawbacks of existing system, we are making eLearning platform more secure. In Accessing Protected Audio Video on Moodle, it requires a stable connection and enough bandwidth to be able to play files without any obstacles hence our system is more user friendly and secure. Our system is offering many features in less cost so that knowledge can reach to everyone. The constructed E-learning environment has promoted the further development of E-learning to some extent.

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