

MOODLE AND ITS' FEATURES

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CERTIFICATE

This is to certify that the thesis entitled , “ **MOODLE AND ITS’ FEATURES**” , submitted by **Mr. NGANGBAM MOHNISH SINGH** in partial fulfillment of the requirements for the award of Bachelor of Technology Degree in ‘ **ELECTRONICS AND COMMUNICATION ENGINEERING** ‘ at the **National Institute of Technology , Rourkela** (Deemed University) is an authentic work carried out by them under my supervision.

To the best of my knowledge, the matter embodied in the thesis has not been submitted to any other university / institute for the award of any Degree or Diploma.

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ABSTRACT

Moodle is a learning management system that is designed to help Teachers create an online classroom setting with opportunities for rich interaction and collaboration with their students. Moodle contains various design aspects that allow instructors and students to interact, collaborate, and experience online learning in exciting multiple ways. Moodle can be used to supplement onground courses or can be used to host completely online courses.

This thesis contains some of the high points of Moodle and various types of Applications that it can provide for an online course.

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Chapter 1

Introduction

1.1 What is Moodle

Moodle is a learning management system that is designed to help Teachers create an online classroom setting with opportunities for rich interaction and collaboration with their students. Moodle contains various design aspects that allow instructors and students to interact, collaborate, and experience online learning in exciting multiple ways. Moodle can be used to supplement onground courses or can be used to host completely online courses.

The Moodle Course Management System can provide teachers with a powerful set of tools to create and manage courses, course content, course materials, track student attendance and performance through tests, and administer quizzes, assignments, and surveys provides a platform to create a forum for interaction between students and teachers and between students also. Moodle is designed so that universities, community colleges, K-12 schools, businesses, and even individual instructors can utilize the benefits of web technology as a supplement to traditional classrooms.

1.2 How it can be used

To use the various aspects of Moodle, first of all the course developer need to download the Moodle package available on moodle.org . After that the package has to be uploaded to the web page designed for the course. This changes the whole outlook of the webpage. The webpage will now look like an application program like MS Office with tool bars and fields for entering data. Various tools can be used to create an interactive website targeted for online course.

1.3 Why use Moodle

One of question that most might like to ask can be Why use Moodle? , How will it help to create a better website for online course? First of all, Moodle is now one of the most popular and easy to use learning management systems available. Secondly, its' various tools allow the course developer an easy to use interactive application based website to provide a huge arsenal of teaching and assessment webpage for online teaching.

Chapter 2

Features

2.1 Reading materials.

Reading materials could contain various lectures, reports, e-books and various other materials for the course. It also can be very useful in categorising the course materials in various categories. Course categories help in creating a group of set of courses under an organizing heading. Courses can be grouped in a general way, for example, by creating categories like “Math” or “English” or “History.” or more detailed categories to organize related courses. For example, there can be a category called “Lifesaving & First Aid,” within which several courses, like “Basic First Aid,” “CPR,” “Search and Rescue,” and “Advanced Lifesaving.” can be added.

After categorising the courses, these courses can then be managed using course settings. Here the teacher can set conditions such as course format, course duration, course start/end dates and a whole host of other settings.

After the course has been uploaded by the teacher it can again be changed removed or new content can be added to these courses or new courses can also be added accordingly. Although, there will a need to categories the users of the site between students and teachers, so that only the teachers can be allowed to make changes to the course. Also, the courses can be categorised under specific teachers so that specific teachers can make changes to specific courses only.

2.2 Papers and Projects.

Papers and Projects of the teacher or the various papers/projects submitted by earlier students to the institute (or teacher) can also be published and made available to the students undergoing the course. As these students are registered through the site they may be allowed to read and study these materials at their own benefit. Also this makes it a very good database for storing the projects and papers submitted to the institute or the teacher.

2.3 Discussion on the course concepts.

A chat window or a discussion section can be introduced to discuss the topic or course discussed on the site. Where, both the teacher and the student can interact freely among themselves to create a discussion environment. Also, the students themselves may be able to interact among themselves through this section. Such a section can improve the learning of

the course to the next level, as the students can properly assimilate the course through these discussions.

2.4 Forum relating to the course.

Just like a discussion section a forum can be created where, frequently asked questions can be included to minimise the time consumption of the teacher and some students which can be saved from joining in the discussion of the FAQ topics. Also, topics which are related but outside the course can be posted on the forum for discussion by the teacher and the other students in a very easy way.

2.5 Conduction of quizzes.

Evaluation of the students through test and quizzes can also be included in the site through moodle and they come under the various activities provided by moodle. Various types of test including essay questions, short answer questions, and multiple choice questions can be introduced in the site. For each type of test or quizzes the teacher has to use the various types of format given on the site for conducting these tests and quizzes. viz. for essay questions the teacher can select that essay type questions from the field provided for creating the different types of questions. For Multiple choice questions, the multiple choice option can be selected and then the specific type of questions can be set accordingly.

2.6 Distribution, collection and evaluation of assignments.

Under different activities one of the activities that can be organised by the teachers is distribution of assignments to the students. This can be done by selecting activities and the choosing assignments. Then a teacher can create an assignment of a course for the students. Then, the teacher can inform the students about the assignment through the e-mail. After that the students can access the assignment through the site and then submit their assignment for the course. A student can submit his/her assignment as a file by uploading the file to the assignment submission.

These assignments can then be collected by the site to the database and these can then be assessed by the teacher through the site. The teacher can also provide grades for the assignment for each student which is stored in the database along with the assignment submitted by each students.

2.7 Keeping track of class attendance.

As moodle provides an online active participation of the course by the teacher, a class attendance can be kept for the students who have participate in the course. Since, each student have to log-in to the site and the through it attend the class, it can be easily used to keep track of the attendance of each student specifically.

2.8 Recording of grades.

Similar to keeping track of attendance of the students, the teacher can accumulate and keep track of the grades provided by him to each student through tests, quizzes and assignments by using the database of the site. As the graded and attendance of each student is stored by the site.

Chapter 3

Conclusion

To sum it all up, Moodle is the best Online Learning Management System available at this time, and is very easy to use for creating an online course. It can be used for many of the various activities for providing a very interactive and composite form of a course that can be provided online (i.e. through internet). Many of the various activities that a teacher can provide through a course constructed on Moodle consists of :-

- i) Reading assignments.
- ii) Online live class.
- iii) Papers and projects.
- iv) Discussion of course concepts.
- v) Forums.
- vi) Tests.
- vii) Keeping track of grades.
- viii) Additional learning opportunities.

In the end all I would like to say is, it is a very good source for providing and enhancing online classes/courses and it should be used to complement on ground classes to make it interesting for the students.

Chapter 4

Reference

Various materials and website through which this thesis is based on are :-

1. Moodle.org
2. Click2try_moodle19_tutorial.pdf by Presage Technologies, LLC.
3. Faculty_moodle_tutorial.pdf by Baker University School of Professional & Graduate Studies.
4. Moodle.pdf by College of Education.Online .