ADMINISTRATOR REPORT SYSTEM FORMOODLE

PROJECT SYNOPSIS
OF MAJOR PROJECT

BACHELOR OF TECHNOLOGY
COMPUTER SCIENCE & ENGINEERING

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Project Guide Prof.

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Introduction

Moodle is a popular open-source learning management system (LMS) that provides a platform for creating and managing online courses and educational content. It is widely used by educational institutions, businesses, and other organizations to deliver online learning environments that support a range of features and tools, such as discussion forums, quizzes, multimedia content, and more. Moodle allows instructors to create and manage courses, add content, and interact with students. It also provides a variety of features to support assessment and grading, reporting and analytics, communication and collaboration, and customization. With its flexibility and extensive range of features, Moodle is an effective and reliable tool for delivering online education to awide range of learners.

It provides various tools and plugins for managing attendance. Here are some of the ways you can set up an attendance system in Moodle:

Install and activate the Attendance module: Moodle has a built-in Attendance module that allows you to create and manage attendance activities for your courses. You can install this module from the Moodle plugins directory and activate it in your course settings.

Create attendance sessions: Once the Attendance module is activated, you can create attendance sessions for your course. You can set up attendance sessions for each class or meeting, and specify the start and end times for each session.

Mark attendance: Students can mark their own attendance in Moodle by logging in and clickingon the attendance activity. You can also mark attendance for students manually if necessary.

Set up attendance grading: You can set up grading criteria for attendance in Moodle, which can be linked to your course gradebook. You can specify the weighting of attendance in the final gradeand set up rules for calculating grades based on attendance.

Monitor attendance: Moodle provides various tools and reports for monitoring attendance, including an attendance report that shows attendance data for each student in your course.

By setting up an attendance system in Moodle, you can streamline attendance tracking, improve communication with students, and enhance the accuracy of attendance data.

Rationale:

The Attendance system in Moodle provides a tool for tracking and managing student attendance in online courses. Instructors can create attendance activities for their courses, and students can mark their attendance or be marked manually. Attendance data is then used to calculate grades, and Moodle provides various tools and reports for monitoring attendance, enabling instructors to identify patterns or issues that may require attention. Overall, the Attendance system provides an easy way to monitor student engagement and participation in online courses.

Objectives:

1. To provide an interface to track attendance.
2. To provide different level of permission setup for Administrator,teacher,student to keep record maintain.
3. To provide an interface for principal to check live attendance.

Literature Review:

1   A study by Lin, Huang, and Huang (2012) investigated the effectiveness of an attendance management system in Moodle for a blended learning course. The results showed that the system helped to improve student attendance and engagement in the course, and also provided instructors with valuable data for monitoring and evaluating student performance.

2   In a study by Ma (2016), the author proposed a new attendance management system for Moodle based on facial recognition technology. The system was found to be effective in automatically identifying and recording student attendance data, saving instructors time and reducing errors.

3   Another study by Kettunen and Karjalainen (2014) explored the use of Moodle's attendance module in a university course. The authors found that the attendance module helped to improve attendance tracking and grading, and also provided students with an easy way to monitor their own attendance records.

4   In a review of literature by Abeysekera and Dawson (2015), the authors discussed the benefits and limitations of using attendance systems in higher education. They noted that while attendance systems can help to improve student engagement and performance, they also raise issues related to student privacy and the potential for increased workload for instructors.
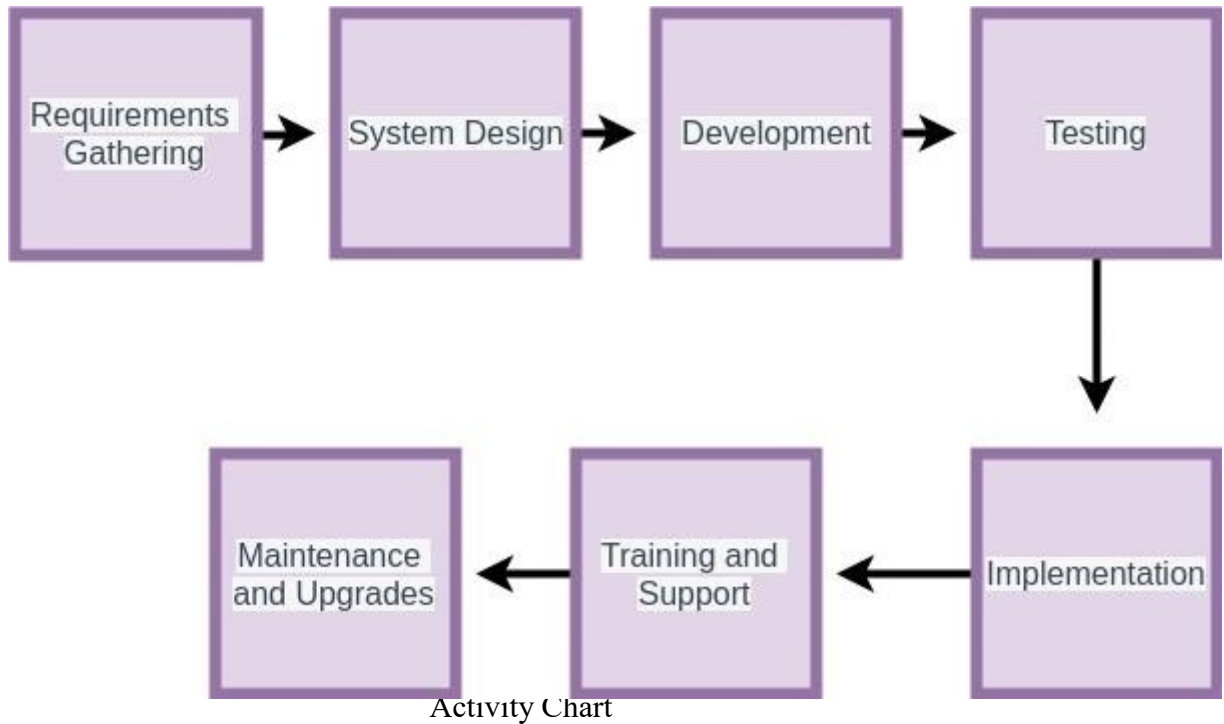
Feasibility Study:

1. Operational Feasibility: An attendance system in Moodle depends on its compatibility with the organization's technology infrastructure, availability of resources, user acceptance, and cost-effectiveness. The system should function efficiently within the existing processes and provide sufficient benefits to justify its costs.

2. Economic Feasibility: An attendance system in Moodle depends on its costs of development, implementation, and maintenance, and the benefits it provides in terms of increased efficiency, reduced workload, and improved student engagement. The benefits should outweigh the costs and provide sufficient return on investment to justify its adoption.

3. Technical Feasibility: An attendance system in Moodle depends on itscompatibility with the organization's existing hardware and software infrastructure, security features, and the ability to integrate with other systems. The system should also be scalable to accommodate growth and should have sufficient support and maintenance resources.

Methodology:

Diagrams –

Activity Chart

1. Requirements Gathering: Identify the requirements of the attendance system in terms of features, functionality, and user needs.

2. System Design: Design the system architecture, user interface, and database schema, based on the requirements gathered.

3. Development: Develop the attendance system using appropriate programming languages, frameworks, and development tools.

4. Testing: Conduct various tests, such as unit testing, integration testing, and user acceptance testing, to ensure that the system functions correctly and meets the requirements.

5. Implementation: Install and configure the attendance system on the Moodle platform, and integrate it with other systems used by the organization.

6. Training and Support: Provide training and support for users to ensure that they are able to use the system effectively and troubleshoot any issues that arise.

7. Maintenance and Upgrades: Regularly maintain and upgrade the attendance system to ensure that it remains up-to-date and continues to meet the evolving needsof the organization.

Facilities required for proposed work:

Software Requirements
- o Moodle
- o Database for storind data
- o Operating system
- o Attendance Plugin

Hardware Requirements
- o Windows OS / Linus
- o 4 GB RAM

Expected Outcomes:

Our system will be able to compile a report of teacher activity in their respective subjects. And the report will be generated automatically. The status os the report will be shown ro the Site Administrator.

References:

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