TopScorer – Your Learning Mate

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# TopScorer – Your Learning Mate

## **Introduction**

"TopScorer" is a sophisticated online application that was painstakingly created with PHP, HTML, and CSS to meet the changing needs of educational establishments. By providing efficient and effective management over various operations, this all-inclusive platform seeks to transform academic practices.

The primary goal of "TopScorer" is to make administrative jobs simpler. The software simplifies tasks like organizing courses, managing student information, grading, and registration through a single centre. This promotes a smooth workflow in educational institutions by reducing the administrative burden and increasing total production.

"TopScorer" gives academic institutions essential insights into attendance patterns, academic achievement, and other critical criteria through its powerful analytical engine. Teachers and administrators may make educated choices that enhance the quality of education by using a data-driven approach.

"TopScorer" is notable for its dedication to individualized education. The platform supports several teaching approaches, including online materials and examinations, and meets the varied demands of contemporary learners. "TopScorer" is a dependable solution that helps educational institutions meet new problems efficiently and improve the quality of instruction in equal proportion.

**Features**

* **User Authentication:**
  + Secure authentication for students, faculty, and administrators.
  + Password encryption and account recovery options.
* **Course Management:**
  + Implement a robust system for adding, editing, and removing courses.
  + Allow faculty to upload course materials and assignments.
* **Student Enrollment and Grading:**
  + Administrators can enroll students in course and divide them in different sections.
  + Automated grading system for faculty with grade tracking.
* **Attendance Tracking:**
  + Monitor and record student attendance.
* **Course Completion Certification:**
  + Student who passed the course will get completion certificate.
* **Semester Planning and Time Management:**
  + Course is divided into different semesters.
  + Restrictions in applying after course start date.

#### **Benefits of the Project**

* **Institutional Efficiency:**
  + Enhance efficiency in course management, grading, and communication.
  + Provide real-time insights for administrators to make data-driven decisions.
* **Skill Development:**
  + Develop skills in PHP, MySQL, HTML, and CSS.
  + Gain experience in creating scalable and user-friendly educational platforms.

## **Design and Data Flow**

1. **Pages:**

* **Student:**
  + **Home: Overview Of courses.**
  + **Courses:** Detailed information about each courses, announcements and grades.
  + **Assignments:** Details of assignment, rubrics and submission folder.
  + **Content:** Student can see weekly details of all the subjects.
  + **Login:** Login page from where everyone can login.
  + **Apply:** Student can apply for course.
* **Faculty:**
  + **Home:** Overview Of courses.
  + **Courses:** Detailed information about each course, create announcements and reveal Grades.
  + **Assignments:** Create, Review, Update and Reopen Assignments.
  + **Login:** Login page from where everyone can login.
  + **Apply:** A person can apply for a faculty member.
* **Administrator:**
  + **Home:** Overview of students and faculty**.**
  + **User management:** Managing students and faculty**.**
  + **Course management:** Managing Courses.
  + **Login:** Login page from where everyone can login.

1. **Database:**
   * Utilize MySQL for efficient data management.
2. **Data Flow Block Diagram:**
   * Showcase the flow of data from user interactions to database updates.
   * Highlight interactions between PHP scripts, MySQL database and front-end interfaces.

## **Technology Description**

* **PHP:**
  + Server-side scripting for dynamic content generation.
  + Handling user authentication, course management, and database interactions.
* **MySQL:**
  + Relational database management system for data storage and retrieval.
  + Efficiently manage user data, course information, grades, and communication logs.
* **HTML/CSS:**
  + Create a responsive and visually appealing front-end interface.
  + Ensure a user-friendly experience for students, faculty, and administrators.

## **Market Survey**

* PHP
* HTML/CSS
* MySQL
* JavaScript
* React
* Node.js
* AWS
* RESTful APIs
* Python
* Angular

## **Conclusion**

In conclusion, the suggested TopScorer project is ready to transform educational administration entirely by utilising PHP, MySQL, HTML, and CSS. The platform's characteristics facilitate efficiency and transparency while catering to the intricate requirements of educational establishments. Subject to modifications depending on project progress and unanticipated obstacles, the projected project completion schedule is 4 Months. This project is an exceptional chance to gain valuable skills and push the boundaries of educational technology.

## **GitHub Link**

## <https://github.com/zeel2patel/TopScorer-Your-Learning-Mate> https://github.com/rvinayd-lgtm