TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES
MANILA CAMPUS

COLLEGE OF INFORMATION AND TECHNOLOGY EDUCATION
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

PROJECT
TIPTOPLEARN

CIT 202 - IT21S1
WEB SYSTEM AND TECHNOLOGIES

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I. Introduction

TipTopLearn is an innovative Learning Management System (LMS) built using PHP that aims to transform online education by providing an intuitive, efficient, and flexible platform for managing courses and educational content. The website is designed with full CRUD (Create, Read, Update, Delete)operations, making it a versatile tool for instructors, administrators, and learners alike.

With TipTopLearn, educational institutions and instructors can seamlessly create and manage courses, assignments, and assessments, while students benefit from an interactive learning environment. The platform ensures that educators can focus on teaching, while learners have access to high-quality content, assessments, and progress tracking.

Core Features:

- User Roles and Management: Secure registration, login, and profile management tailored to students, instructors, and admins.
- Course Creation and Management: Easy-to-use CRUD functionality for creating, editing, and deleting courses, lessons, and resources.
- Assignments and Quizzes: Tools for creating assessments with automated grading and feedback mechanisms.
- Performance Tracking: Real-time progress reports for students to track learning outcomes.

- Role-Based Access Control: Ensuring data security and tailored access to features based on user roles.

II. Technology Used

- Programming Language: PHP (backend development)
- Database: MySQL (data storage and management)
- Frontend Technologies: HTML, CSS, Bootstrap, JavaScript (to design responsive user interfaces)
- Frameworks: jQuery and AJAX (for dynamic, interactive web elements)
- Hosting and Deployment: Apache Server and XAMPP for local development
- Version Control: Git (for code management and collaboration)

III. General Problem:

The project aims to address the inefficiencies and challenges faced in traditional education systems, such as limited accessibility to resources, inefficient communication between teachers and students, and the difficulty of managing and tracking academic performance. In an era where digital education is crucial, the absence of a streamlined platform results in lost opportunities for effective learning, reduced engagement, and increased administrative burden for educators. TipTopLearn seeks to bridge these gaps by providing an all-in-one solution for managing and delivering educational content.

IV. Three Specific Problems

1. Course Management and Resource Accessibility:
   Educators struggle to organize and share learning materials efficiently. Students face challenges accessing learning resources on time due to the lack of a centralized platform. This often results in confusion, delays, and missed deadlines, negatively impacting the learning process.

2. Assignment and Grading Workflow:
   In traditional systems, assignments and grading are managed manually, leading to time inefficiency and possible errors. Teachers face difficulties tracking submissions and providing timely feedback, while students experience uncertainty about their performance.

3. Scheduling and Time Management:
Teachers and students often face challenges in coordinating schedules for classes, exams, and submission deadlines. The absence of a streamlined scheduling system causes overlapping events, missed deadlines, and poor time management, affecting overall productivity and learning outcomes.