Title: Tutor Management System

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Problem Statement

We are looking to connect students to tutors in a way that is functional and easy to understand for users who may not be used to computer systems. By allowing tutors and students to see open schedule times to sign up for they will be able to work around their own schedules and match with another student or tutor easily.

System Functionality

The Tutor Management System (TMS) will allow tutors/students to:

- Check Their Current Schedule: Any previously scheduled appointments will be seen here.
- Schedule Appointments: Set up and manage tutor/student appointments.
- Track Grades and Assignments: Students able to update their own grades to track progress.

Objectives

- Centralized Tutoring System: Provide a single platform for tutors and students to get matched together to provide students with help.
- Efficient Scheduling: Develop a more streamlined approach to appointment scheduling and management to improve efficiency.
- Grade Tracking: Enable easy tracking of medical histories and treatments.
- Data Security: Ensure that patient data is stored securely and access is controlled.

System Requirements

- User Capabilities:
 - Tutors: Access their schedule, see students looking for a tutor, and adjust their schedule if they want to add a student.
 - Student: Access their schedule, see tutors who match academic needs, and add appointments if they need help.
 - Administrators: Manage user accounts and control access levels.

Functional Requirements:

- Frontend: A user-friendly, engaging, and appealing interface for interacting with records and scheduling.
- Backend: A reliable and capable system for handling data operations.
- O Database: A relational database to store patient information, appointment schedules, and medical histories.

Typical Customers

- University Students: Any students who are struggling in a class at the college level.
- **Tutors**: Current or former students who want to be able to help other students succeed.

Project Planning

• Software:	
	Frontend : HTML, CSS, JavaScript, as well as jQuery for easier DOM manipulation.
0	Backend : PHP for server-side scripting and Java for complex operations with the
	database.
	Database : MySQL for relational data storage.
 Hardware: PCs or servers for development and deployment. 	
 Network: Standard internet connectivity for accessing the system. 	
Development Approach	
Fronte	nd: Use HTML and CSS for layout and design, and implement interactive features
with JavaScript and jQuery.	
 Backend: Use PHP to handle server-side logic and interactions with the database. 	
 Database: Design a relational schema in MySQL for managing patient records, 	
appoin	tments, and medical histories.
Securit	y : Implement user authentication and authorization in PHP, and use prepared
statem	ents in SQL to prevent SQL injection.
Development Plan	
● Weeks 1-2:	
0	Set up a development environment (PHP, MySQL, HTML/CSS/JS).
0	Design database schema and set up MySQL database.
● Weeks 3-4:	
0	Develop the frontend interface with HTML, CSS, and JavaScript.
0	Implement basic PHP scripts for CRUD operations on patient records.
0	Create simple Java classes representing the classes in the program.
Weeks 5-7:	
0	Develop the ability to schedule appointments.
0	Add features for managing medical histories and submitting reports.
Weeks	8-10:
0	Record midterm report.
0	Implement user authentication and authorization.
0	Ensure data security and integrity.
Weeks 11-13:	
0	Test the system for bugs and usability issues, including adding in test cases.
0	Refine and optimize features based on feedback.
● Week 14:	
0	Prepare final documentation and presentation.
Week 1	L5:

O Record demo and finalize project for submission.