CAP:777 WEB DEVELOPMENT USING PHP

SUBMIT →

To

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28940

PROJECT TITLE-

DAILY COLLEGE CLASS WORK REPORT BOOK

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DAILY COLLEGE CLASS WORK REPORT BOOK

Introduction: - The Daily College Class Work Report Book is a web-based application developed using PHP to help students and teachers keep track of daily classroom and assignments. This system aims to streamline the process of recording and accessing classwork, making it easier for both students and teachers and instructors to stay organized and informed.

Purpose: - purpose of this document is to specify the requirements for the development of a web-based system that manages daily class work and activities in a college setting using PHP.

Scope: - This project aims to create a comprehensive system that allows colleges to record and manage daily class activities, attendance, assignments, and generate reports for academic purposes.

Features:

User Registration:
- ✓ Users, including students, teachers, and administrators, should be able to register for an account by providing their essential information, such as name, email address, and password.
- ✓ Passwords should be securely hashed and stored in the database to protect user data.

Login Page:
- ✓ Create a login page with input fields for email/username and password.
- ✓ Implement client-side validation for input fields, checking for empty fields and valid email formats.

Authentication:
- ✓ Implement server-side authentication to verify user credentials.
- ✓ Compare the entered email/username and password with the stored information in the database.
- ✓ Use a strong hashing algorithm to hash and compare passwords securely.

Session Management:
- ✓ Upon successful login, create a session or token to maintain user authentication throughout their session. This ensures that users do not need to re-enter credentials for each page.

User Roles and Permissions:
- ✓ Define different user roles (e.g., student, teacher, admin) and assign appropriate permissions for each role. For example, teachers might have the ability to upload class notes, while students can only view them.

Access Control:
- ✓ Implement access control mechanisms to restrict access to certain parts of the application based on user roles. For instance, only teachers can access the assignment creation and grading sections.

Password Reset:
- ✓ Add a "Forgot Password" functionality that allows users to reset their password if they forget it. This typically involves sending a reset link to the user's email.

Login Page Diagram: -
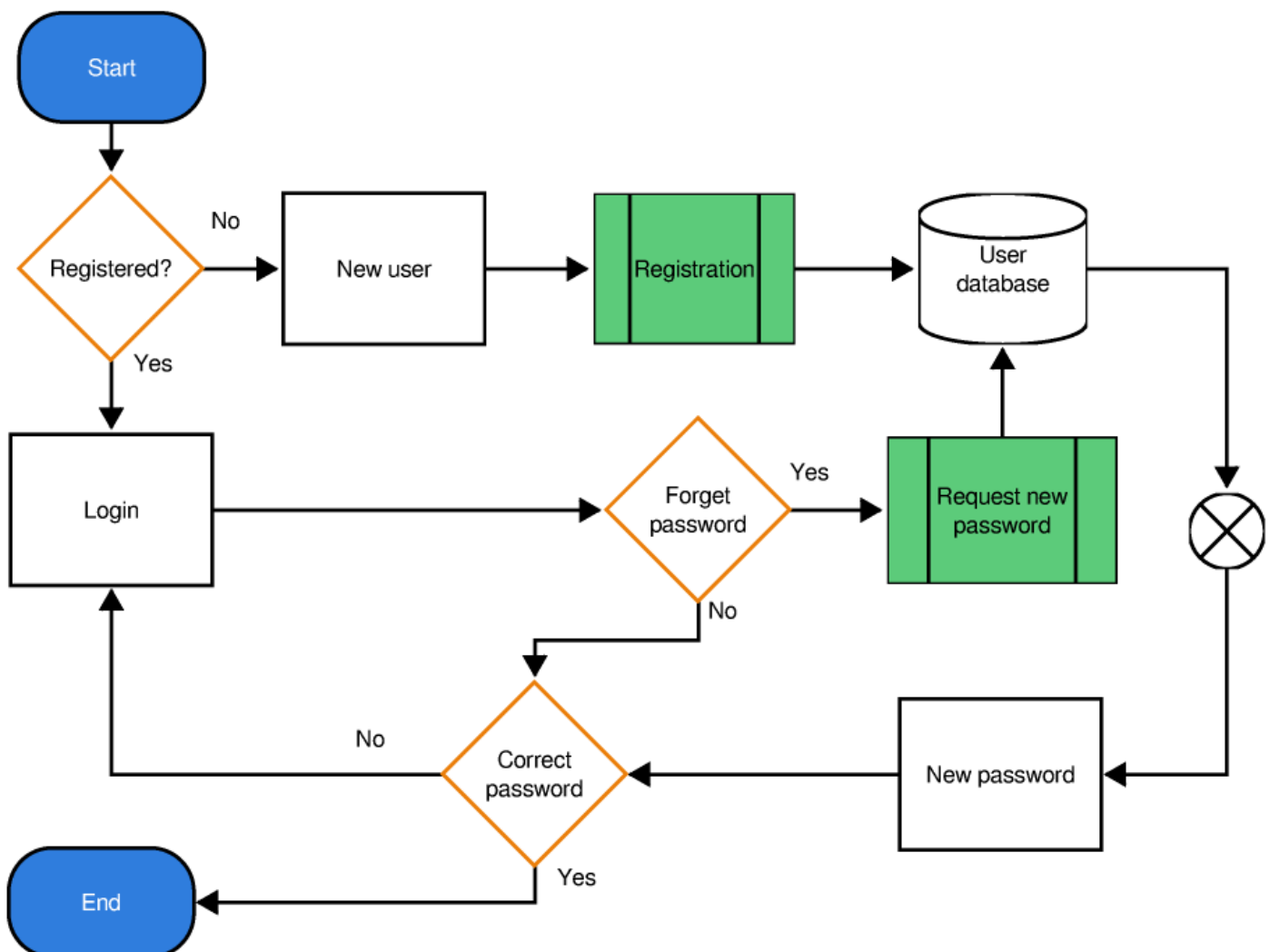
User Feedback:
- ✓ Provide clear feedback to users upon login. If login fails, inform the user with a user-friendly error message.

User Management: Registration and login for both students and teachers. User profile management.

Dashboard: A personalized dashboard for each user displaying their courses and classwork.

Course Management: Teacher can add, edit, and delete courses. Students can view the list of courses they are enrolled in.

Classwork Recording: Teachers can add daily classwork and assignments, specifying the course, date, and description. Students can view the classwork for each course.

File Upload: Teachers can upload supporting files or documents for classwork. students can download these files.

Notification System: Automated E-mail notification to inform students about upcoming assignments or changes to the classwork.

Search and Filter: Users can search for specific classwork items by date, course, or keywords.

Report Generation: Both students and teachers can generate reports showing a summary of classwork and assignments completed over the period.

Security: Implement user authentication and authorization to ensure data privacy. Secure file uploads and storage.

Class Notes:

- ✓ **Upload and Storage:** Teachers can upload class notes and materials related to their lectures. These materials may include lecture slides, PDFs, Word documents, or any other relevant files.

- ✓ **Categorization:** Uploaded materials are typically categorized by course, subject, or date to make it easy for both teachers and students to locate specific resources.

- ✓ **Accessibility:** Students can access these class notes and materials to review course content and better understand the topics covered in class.

- ✓ **Version Control:** The system may include version control features to allow teachers to update materials as needed and provide students with the latest versions.

Assignment Submission:

- ✓ **Assignment Creation:** Teachers can create assignments, specifying details such as the title, description, due date, and any associated resources or materials.

- ✓ **Assignment Submission:** Students can submit their completed assignments through the system, attaching any necessary files or documents.

- ✓ **Deadline Notifications:** The system may provide deadline notifications to students to ensure they are aware of upcoming assignment due dates.
- ✓ **Teacher Review:** Once submitted, teachers can access and review student assignments through the system. They can provide feedback, grades, and comments.

- ✓ **Submission Tracking:** Both students and teachers can track the submission status of assignments, knowing whether an assignment has been submitted, reviewed, and graded.

Technologies:

- ✓ Front-End: - HTML, CSS, JavaScript for the user interface.
- ✓ Back-End: - PHP, MySQL for database management.

Role of each team member for features in the Projects: -

- ✓ **Ekhlakh Ahmad:** Front-End developer in charge of HTML, CSS, and JavaScript for the user interface.

- ✓ **Sukhdeep Kaur:** Lead developer responsible for back-end PHP scripting and database integration.

System Features

User Registration and Authentication: -

- ✓ Users can register with the system.
- ✓ Users can log in using their credentials.
- ✓ Password will be securely stored and hashed.

Daily Attendance: -

- ✓ Teachers can record student attendance for each class.
- ✓ Students can view their attendance records.

Class Notes and Assignments: -

- ✓ Teachers can upload class notes and assignments.
- ✓ Students can submit assignments.
- ✓ Notifications for assignments deadlines.

Resource Storage: -

- ✓ Upload and organize lecture slides, documents, and other resources.
- ✓ Resources should be categorized by courses.

Report Generation: -

- ✓ Generate daily class work reports.
- ✓ Reports can be customized based on user preferences.
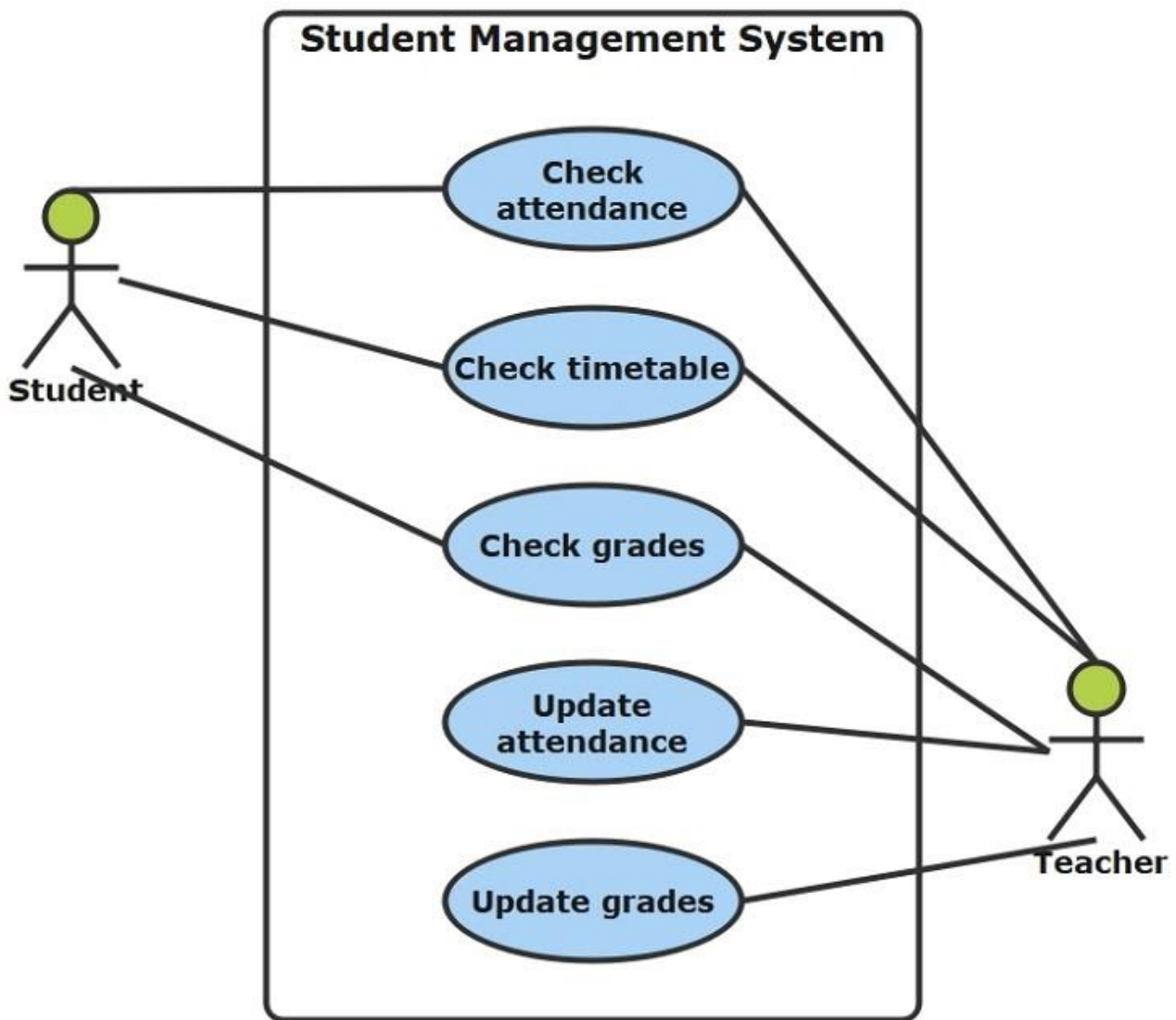
External Interface Requirements

User Interface: - The user interface should be user-friendly and responsive. It will be accessible through web browsers.

Hardware Interface: - The system should be compatible with standard web browsing hardware.

Software Interface: - The system will interface with a relational database for data storage.

Check some details: -

Student Management System — Use case diagram showing Student actor connected to Check attendance, Check timetable, and Check grades; Teacher actor connected to Check attendance, Check timetable, Check grades, Update attendance, and Update grades.

Non-Functional Requirements

Performance: - The system should respond promptly to user requests. Response times should be within acceptable limits.

Security: - User data, including passwords, must be securely stored and transmitted. The system should have user authentication and authorization controls.

Usability: - The system should have an intuitive and user-friendly interface. Users should be able to navigate and use the system with minimal training.

Development and Testing

Development: - The project will be developed using PHP, HTML, CSS, and a relational database system (e.g., MySQL).

ER Diagram: -
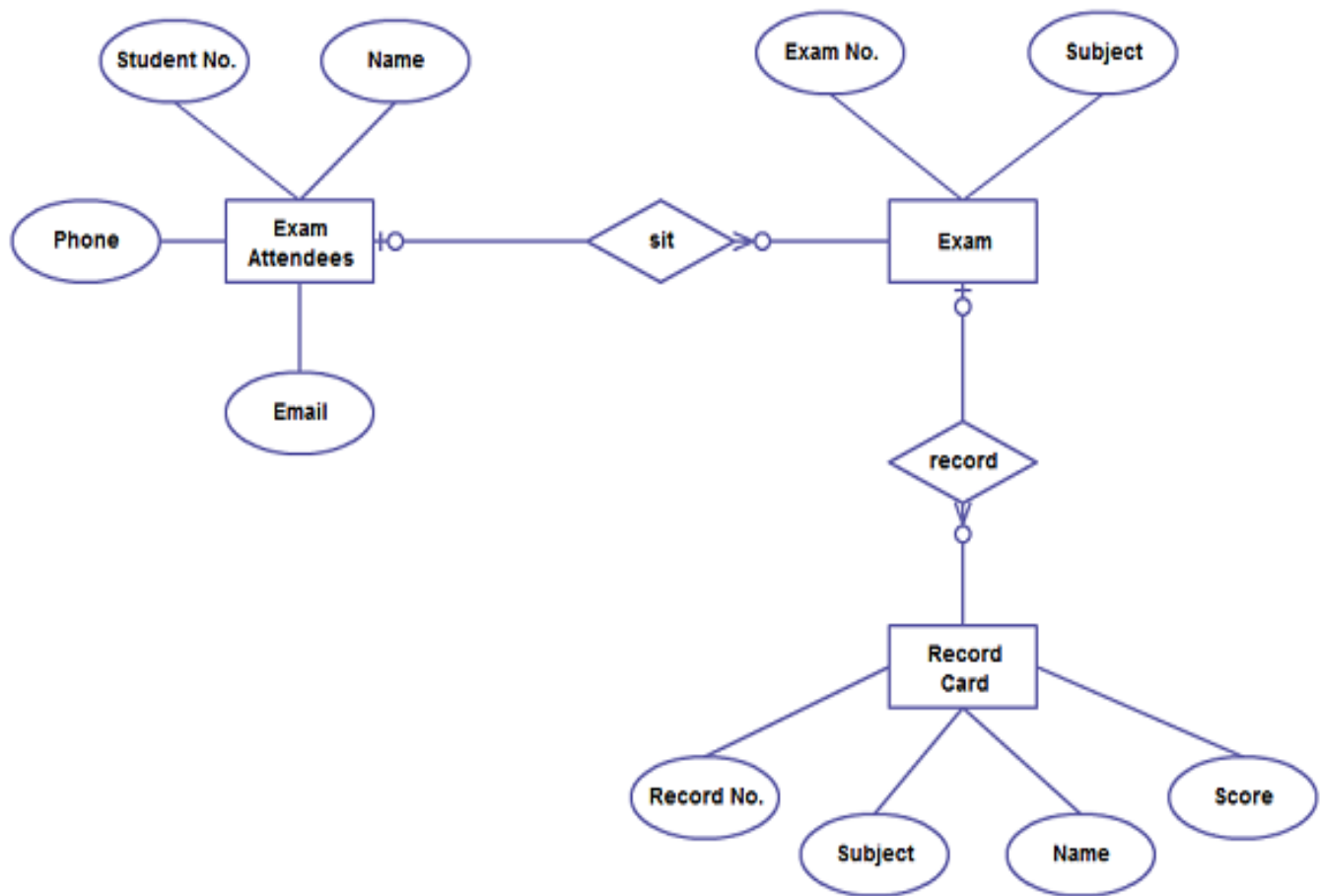
Testing: - Thorough testing, including unit testing, integration testing, and user acceptance testing, will be conducted to ensure the system meets the specified requirements.

Documentation: - Comprehensive documentation, including user manuals and technical documentation, will be provided to assist users and developers.

Design and Implementation: - The Project will use PHP for server-side logic, MySQL for the database, and standard web technologies like HTML, CSS, and JavaScript for the user interface.

Student Information: -
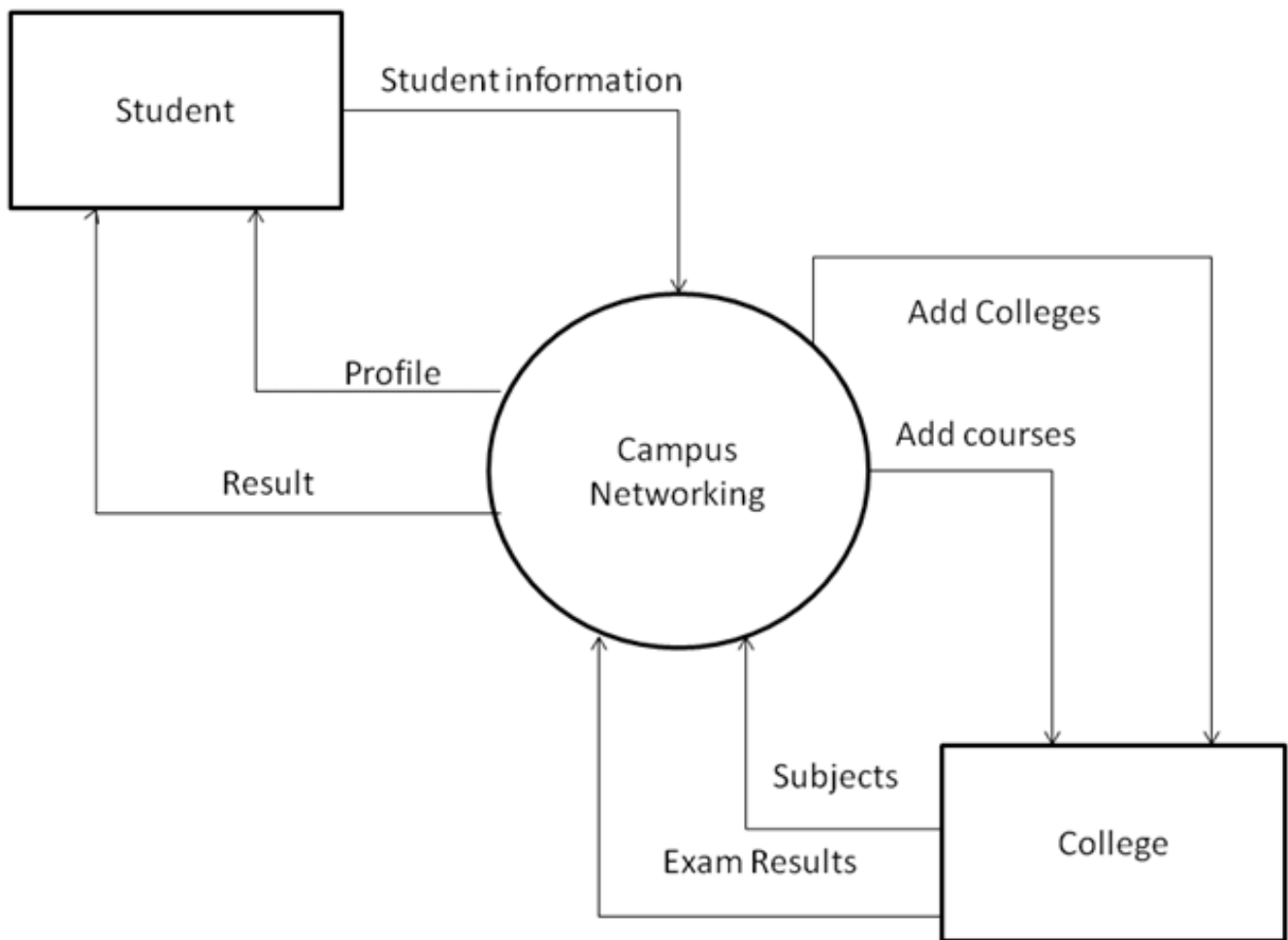
Conclusion: -
This SRS outlines the requirements for the "Daily College Class Work Report Book PHP Project." The development of this project aims to improve the management of daily class activities in a college setting, benefiting both students and teachers.