Task details for the post of PHP developer

Description:

You have been assigned the task of developing a login and registration system using raw PHP, MySQL and JavaScript/ jQuery. The system should allow users to create an account, log in securely, and manage their profile information.

Requirements:

1. **Registration:**
   a. Create a registration form that collects the following information from users:
      i. Username (unique)
      ii. Email address (unique)
      iii. Password (hashed and stored securely)
   b. Implement validation to ensure the entered information is valid.
   c. Store the user information securely in a MySQL database.

2. **Login:**
   a. Design a login form that prompts users for their username/email and password.
   b. Implement secure authentication to verify the user's credentials against the stored data in the MySQL database.
   c. Provide appropriate error messages for invalid login attempts.
   d. Set up a secure session for the logged-in user.

3. **Profile Management:**
   a. Allow users to view and update their profile information.
   b. Design a user-friendly interface for users to edit their details such as username, email address, and password.
   c. Implement validation to ensure the entered information is valid.
   d. Update the user information securely in the database.

4. **Security Measures:**
   a. Implement secure password storage using techniques like hashing and salting.
   b. Protect against common security vulnerabilities, such as SQL injection and cross-site scripting (XSS) attacks.
   c. Prevent SQL injection attacks.
   d. Implement proper input sanitization and output encoding to prevent XSS attacks.

5. **User Experience:**
   a. Ensure a user-friendly and intuitive interface for registration, login, and profile management.
   b. Implement appropriate form validation and provide clear error messages for users.
   c. Handle edge cases and error scenarios gracefully.

6. **Documentation:**
   a. Provide clear and concise documentation on how to set up and use the login and registration system.
   b. Document any external libraries or frameworks used, along with their purpose and installation instructions if applicable.

Additional Considerations:
- Use best practices and follow coding standards.
- Test the system thoroughly to ensure its functionality and security.
- Consider scalability and performance optimizations where necessary.

Additional Task:
The application may allow users to perform CRUD (Create, Read, Update, and Delete) operations on a specific entity. Such as upload their certificates, edit and delete them.
Please note that this is an additional task, and completing it would be highly appreciated.

Deliverables:
- PHP code files implementing the login and registration system.
- Database schema and any required SQL scripts.
- Documentation outlining the setup and usage instructions.

Submission Deadline:
Please complete the task within 5 days from the receipt of this email. We understand that you may have other commitments, so kindly let us know if you require any additional time to complete the task.