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CISC3003: Web Programming

Individual Work Of Project Report

Team 08

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A. Abstract

This project aims to develop a full-stack web for the profile interface of the MRP system. The system will provide a user-friendly interface, namely responsive web design, for both PC users and mobile device users. For front-end development, we will use HTML, CSS and JavaScript in order to implement multiple features. The back end uses PHP to manage web pages. The backend is responsible for responding to client requests such as updating username, phone and email, etc. And use MySQL to save the data required by customers. It also includes account logout, upper navigation bar and other features. In short, this project implements the personal data interface system by combining front-end and back-end to achieve an efficient and user-friendly website.

B. List of services

B-I. User Authentication Service: Verifies if the user is logged in using PHP's session mechanism.

B-II. Database Query Service: Connects to the database using PHP and retrieves user information based on the logged-in user's username.

B-III. User Information Display Service: Displays the user's profile information on the page, including profile picture, username, gender, phone number, email, and address, based on the retrieved user information.

B-IV. User Information Editing Service: Provides user information editing functionality through a form, allowing users to modify their profile information.

B-V. User Logout Service: Offers a logout link that users can click to clear the session and return to the login page.

C. List of tasks

C-I. Start the PHP session.

C-II. Include the database connection file.

C-III. Query the information of the currently logged-in user.

C-IV. If the query result is empty, display an error message.

C-V. Display the webpage header, including the logo, navigation bar, and user avatar.

C-VI. Display the user information section, including the user avatar, username, switch account, and logout links.

C-VII. Display the profile editing form, including fields for uploading a profile picture, username, gender, phone number, email, and address.

C-VIII. If the user is logged in, display the user's personal information; otherwise, display default information.

C-IX. When the form is submitted, send the form data to a PHP file for processing.

C-X. When the user clicks the logout link, clear the session and redirect to the login page.

D. Project accomplishments

This profile page project demonstrates the developer's strong skills in web development, including front-end design, back-end programming, database management, and user authentication. The developer implemented a responsive design to ensure an optimal viewing experience across various devices and screen sizes. Moreover, the developer employed data validation and performance optimization techniques, showcasing their attention to detail and commitment to delivering a high-quality user experience. Additionally, the developer collaborated with the team to seamlessly integrate the profile page into the overall application, maintaining consistency in design and functionality. Overall, this project highlights the developer's ability and professionalism in building secure, dynamic, and user-friendly web applications.

E. Project incomplete

Despite the significant progress made in the profile page project, there are still areas that require further development. The current implementation lacks essential features such as password change functionality, real-time form validation, and comprehensive testing. Moreover, enhancements are needed to optimize profile picture compression, improve mobile responsiveness, and address accessibility considerations. Integrating the profile page with a user notification system would keep users informed about important updates. While basic testing has been conducted, more thorough testing is necessary to identify and resolve potential issues across different browsers and devices. Addressing these incomplete tasks and features will elevate the functionality, usability, and overall quality of the profile page project, resulting in a more polished and feature-rich user experience.

F. Installation instructions

In the database of this house rental management system, personal data management mainly involves two tables: landlord table and tenant table. These two tables store the personal information of the landlord and tenant, including name, gender, photo, phone number, email, address, password, etc. By adding, deleting, changing and checking the two tables, it is possible to manage the personal information of landlords and tenants, such as registering new users, updating personal information, and querying user details. At the same time, these personal information is also associated with other tables, such as the landlord ID in the house table and the landlord ID and tenant ID in the orders table, which facilitates the use and association of user data in other business scenarios.