Project Report

Gym management system

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Overview

Throughout the semester, we collaborated on the development of the CMPSC431W Gym Management System.

Stage I:

According to the team contract, we held their first discussion at the Pattee Library and decided on the Gym Management System as our project theme. This decision was based on mutual interests and understanding each other's abilities.

● Enxu Wu's Role: Responsible for selecting the project theme and ensuring task allocation was in line with both parties' strengths.

● Leyang Zhang's Role: Utilized his experience in MySQL and Java to lay a solid foundation for database design and backend development.

This initial phase set the direction for the project and ensured both parties met the expectations of the contract.

Stage II:

Enxu Wu's Contributions:

● Responsible for the development of ER diagrams, crucial for the database structure.

Leyang Zhang's Contributions:

● Create DML And DDL for all system features and Database schema.

Stage III:

Enxu Wu's Contributions:

● Handled the front-end development, particularly HTML design and user manual compilation.

Leyang Zhang's Contributions:

- Backend development, Database design and management. Integrating HTML with JDBC to provide a seamless user experience.

Documentation and Reporting

Enxu Wu's Role: Prepared the user manual and drafted the final report, including reflections on the development process.

Leyang Zhang's Role: Managed the codebase, ensuring smooth application operation, and handled the demonstration of system functionalities.

Reflection and Comparison with the Team Contract

Reflecting on the project development, it is clear that our work aligned with the team contract. The contract emphasized punctuality, effective communication, and clear labor division, which were maintained throughout the project. Regular meetings and adherence to deadlines played a key role in the project's success.

Faced with challenges in front-end design aesthetics and handling deprecated functions in Spring Boot, we proactively solved problems and adapted. These challenges provided learning opportunities, enhancing our understanding and skills in complex project development.

The synergy between us was a crucial factor in the smooth execution of the project. Our commitment to the principles of cooperation in the team contract played a significant role in successfully completing the Gym Management System.

Conclusion

In summary, the project's success is a testament to our effective collaboration and our knowledge of the Database management system.