



ACCOMPLISHMENT REPORT for **February 16-29, 2024**

Objective: User Management Information System

- Establish a Node js server with express to establish a socket connection for real time updates of data in the client side.
- Update client side reference modules to handle real time update of data.
- To optimize the real-time connection structure and reduce unnecessary server requests, implement strategies such as client-side caching, batching requests, debounce and throttle techniques, WebSocket for real-time updates, server-side validation, intelligent broadcasting, data transmission optimization, cache invalidation, differential updates, and traffic monitoring.
- Add update for system role access rights, adding and removing existing rights of a system role.
- Establish rights on the client-side by defining user roles and permissions. Retrieve user permissions upon login and dynamically render action buttons based on these permissions. Handle button click events and provide feedback for unauthorized actions. Update button visibility as permissions change and thoroughly test the system for functionality and security.

Overall, these achievements have greatly improved the system quality.

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System
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