

BranDon Brown

### Final Reflection

Our final system aligns closely with the original SAR by meeting all functional requirements while maintaining adaptability, scalability, and clarity in design. From the outset, we focused on creating a structure that was organized, maintainable, and capable of evolving as requirements changed. The resulting system ultimately exceeded expectations for the project's initial scope.

Throughout development, we gained significant lessons about teamwork, communication, and project management. Effective collaboration proved to be the most important factor in our success. Establishing clear roles, maintaining consistent communication, and understanding each team member's strengths allowed us to delegate tasks efficiently and maintain steady progress. Recognizing individual comfort levels also supported stronger task alignment and trust within the team.

Our architectural, documentation, and testing practices matured with each sprint. Early iterations highlighted the need for clearer structure and separation of concerns, which we implemented in later sprints to minimize complexity and avoid merging conflicts. Maintaining detailed, up-to-date documentation improved our coordination and onboarding, while a strict and isolated testing approach enabled reliable validation of features before integration.

AI served as a supplemental tool that enhanced, rather than dictated, our decision-making. It supported the idea of refinement, generated alternatives for consideration, and improved clarity in certain technical discussions. However, the core design and implementation choices remained team-driven and grounded in our requirements and expertise.

Personally, I contributed by helping shape the system's structure, facilitating organization within the team, and ensuring tasks were assigned based on capability and confidence. This project strengthened my understanding of scalable system design and improved my leadership and communication skills. Ultimately, the experience underscored the value of collaboration, planning, and adaptability in delivering a successful and sustainable solution.