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CST-452

Requirements Fulfillment

1/10/25

Overview

This document evaluates each project requirement defined during the planning phase of the Anaheim Ballet web application. Each requirement is assessed based on whether it was adequately met within the scope of the project. For requirements that were not fully met, a clear justification is provided along with planned improvements for future versions. This approach reflects real-world software development practices, where constraints such as security, access permissions, and project scope must be carefully managed.

Requirements Evaluation

Requirement	Outcome	Justification
R1: Users should be able to create an account and authenticate using an email and password	Partially Met	User registration and login functionality were implemented using a React frontend and a Node.js/Express backend connected to a MySQL database. Users can create accounts and submit login credentials; however, full authentication features such as password reset, email verification, and persistent login sessions were not implemented due to project scope and time constraints
R2: Users should be able to submit contact inquiries through the website	Met	A fully functional contact form was implemented using React on the frontend and a Node.js/Express backend. Submitted messages are stored securely in the MySQL database
R3: Users should be able to subscribe to a newsletter	Met	Newsletter subscription functionality was implemented and successfully connected to the database, allowing users to submit email

		addresses for future communications
R4: Users should be able to view company, school, outreach, and event information	Met	All informational sections were implemented with structured content, dynamic components, and navigation consistent with the project wireframes
R5: Users should be able to view class schedules by level	Met	A dynamic class calendar was implemented that allows users to filter schedules by class level and view weekly availability
R6: Administrative content management functionality	Partially Met	While event and content data is dynamically displayed, a full administrative dashboard for content management was not implemented due to scope and time constraints

Planned Improvements

If this project were to continue into a production phase, the following improvements would be prioritized:

- Integration with a secure authentication provider (such as OAuth or institutional SSO) to support verified user logins
- Development of an administrative dashboard with role-based access control to manage events, galleries, newsletters, and contact submissions
- Enhanced validation, logging, and error handling for all backend services
- Deployment to a cloud-based hosting environment with SSL and production-grade security configurations
- Accessibility enhancements to ensure compliance with WCAG standards

Reflection

This project demonstrates the importance of balancing ambition with feasibility. Some requirements, while desirable, could not be ethically or securely implemented without proper authorization. Documenting these decisions ensures transparency and provides future maintainers with clear guidance on how the system can evolve.

From a Christian worldview perspective, this process reflects the value of integrity and stewardship. Rather than forcing incomplete or insecure solutions, the project emphasizes responsibility, honesty, and trustworthiness—principles that align with serving others faithfully even amid technical limitations.