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System Requirements Analysis: Enrollment Experience

Objective

This document analyzes the **University of San Jose–Recoletos Online Student Information System (SIS)** based on my personal experience as a student during the enrollment process. The analysis focuses on system features, quality attributes, constraints, trade-offs, and reflections from a real user perspective.

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1. Feature Requirements (30%)

FR1: The system shall allow students to view available subjects along with their capacity, schedule, and status (open, full, or for possible dissolution).

FR2: The system shall allow students to request subject insertion online when a subject is already full.

FR3: The system shall provide timely feedback and status updates for subject insertion requests without requiring students to visit the department office.

FR4: The system shall notify students in advance if a subject is at risk of being dissolved.

FR5: The system shall support manual approval workflows digitally for departments such as the School of Computer Studies.

FR6: The system shall function correctly across major web browsers without button or interface failures.

FR7: The system shall allow students to view and manage their personal profile information securely within the SIS.

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2. Quality Attributes (25%)

QA1: The system should be reliable and process enrollment requests accurately.

QA2: The system should be responsive and provide timely feedback on subject insertion and approvals.

QA3: The system should be usable across different browsers without errors or broken functions.

QA4: The system should be secure while still providing complete and transparent functionality to users.

QA5: The system should be user-friendly to reduce the need for physical office visits during enrollment.

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3. System Constraints (25%)

C1: The system is constrained by the university's reliance on manual approval processes for subject insertion.

C2: The system is constrained by limited system integration between SIS and academic departments.

C3: The system is constrained by browser compatibility issues that affect system usability.

C4: The system is constrained by institutional policies requiring in-person approval for certain enrollment concerns.

C5: The system is constrained by limited development resources to fully implement a complete and secure SIS.

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4. Prioritization & Trade-off Analysis (15%)

If the university can only improve three aspects of the SIS next semester, the priorities should be **online approval processing, system reliability, and subject status transparency**. Based on my experience, subject insertion requests take too long to receive feedback, forcing students to personally visit the School of Computer Studies for approval. Improving digital approval workflows would reduce delays but may be constrained by existing institutional policies. Another important improvement is fixing browser-related bugs where buttons fail to work, which directly affects enrollment completion. Lastly, the system should clearly warn students before subjects are dissolved to prevent unexpected schedule changes. A key trade-off is that improving system functionality and automation may require additional budget and training. However, prioritizing

these improvements would significantly reduce student inconvenience and administrative workload.

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5. Personal Reflection (5%)

After completing this activity, I realized that system requirements are not just technical details but directly affect student experience. Delays, bugs, and lack of transparency create unnecessary stress during enrollment. I also learned that system constraints such as manual approvals and policy limitations heavily impact system effectiveness. Overall, analyzing my experience helped me understand the importance of aligning system design with actual user needs.