Rational Software

Course Registration System Supplementary Specification

Version 2003

Revision History

Date	Issue	Description	Author
9/5/2000	V2000	Generation for beta	Shawn Siemers
10/2/2000	V2000	Final release	Shawn Siemers
01/14/2003	V2003	Final Release	Alex Kutsick

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1. Objectives

The purpose of this document is to define requirements of the Course Registration System. This Supplementary Specification lists the requirements that are not readily captured in the use cases of the use-case model. The Supplementary Specifications and the use-case model together capture a complete set of requirements on the system.

2. Scope

This Supplementary Specification applies to the Course Registration System, which will be developed by the OOAD students.

This specification defines the non-functional requirements of the system; such as reliability, usability, performance, and supportability, as well as functional requirements that are common across a number of use cases. (The functional requirements are defined in the Use Case Specifications.).

3. References

None.

4. Functionality

Multiple users must be able to perform their work concurrently.

If a course offering becomes full while a student is building a schedule including that offering, the student must be notified.

5. Usability

The desktop user-interface shall be Windows 95/98 compliant.

6. Reliability

The system shall be available 24 hours a day 7 days a week, with no more than 10% down time.

7. Performance

1. The system shall support up to 2000 simultaneous users against the central database at any given time, and up to 500 simultaneous users against the local servers at any one time.
2. The system shall provide access to the legacy course catalog database with no more than a 10 second latency.
   Note: Risk-based prototypes have found that the legacy course catalog database cannot meet our performance needs without some creative use of mid-tier processing power
3. The system must be able to complete 80% of all transactions within 2 minutes.

8. Supportability

None.

9. Security

1. The system must prevent students from changing any schedules other than their own, and professors from modifying assigned course offerings for other professors.

2. Only Professors can enter grades for students.
3. Only the Registrar is allowed to change any student information.

10. Design Constraints

The system shall integrate with an existing legacy system, the Course Catalog System, which is an RDBMS database.

The system shall provide a Windows-based desktop interface.