

iSchool Webstore System

Non-Functional Requirements

1. Usability
 - 1.1. Human factors
 - 1.1.1. System shall conform to all UI/HCI standards adopted by or promoted by UWM/SOIS.
 - 1.2. Aesthetics
 - 1.2.1. System shall conform to all aesthetics standards adopted by or promoted by UWM/SOIS.
 - 1.3. Consistency in the user interface
 - 1.3.1. System shall conform to all standards adopted by or promoted by UWM/SOIS regarding consistency in the user interface.
 - 1.4. Online and context sensitive help
 - 1.4.1. All action-oriented screens in the system will have a dedicated help screen. Display screens will be expected to be self-explanatory.
 - 1.5. Wizards and agents
 - 1.5.1. No requirements expected.
 - 1.6. User Documentation
 - 1.6.1. See 1.4.1 (above).
 - 1.7. Training Materials
 - 1.7.1. A group of short videos will be provided as training for system users. It is expected that a video will be created to correspond to each actor role identified in the use cases (including customer).
2. Reliability
 - 2.1. Frequency and severity of failure
 - 2.1.1. The system shall not fail more frequently than once per week.
 - 2.2. Recoverability
 - 2.2.1. The system shall be recoverable from failure within one hour. All transactions that were confirmed to the user will have been restored in the system and its database.
 - 2.3. Predictability
 - 2.3.1. No further requirements expected.
 - 2.4. Accuracy
 - 2.4.1. See 2.2.1 (above).
3. Performance
 - 3.1. Speed
 - 3.1.1. No further requirements expected.
 - 3.2. Efficiency
 - 3.2.1. No further requirements expected.

3.3. Throughput

3.3.1. The system shall support up to 50 simultaneous customer users and up to 10 simultaneous staff users.

3.3.2. The system shall support the picking and shipping of up to 50 orders per day.

3.4. Response time

3.4.1. The system shall exhibit average response time of 2 seconds or less.

4. Supportability

4.1. Testability

4.1.1. Solutions that include a test suite based upon an open source testing framework like JUnit are preferred.

4.2. Extensibility

4.2.1. System must be extensible by creating additional code that shares a common database.

4.3. Adaptability

4.3.1. System must be adaptable. Changing requirements are expected to primarily include a steady increase in sales volume.

4.4. Maintainability

4.4.1. Solutions that include version control based upon an open source tool like Subversion or Git are preferred.

4.5. Compatibility

4.5.1. Solutions that are implemented using the LAMP stack are preferred.

4.6. Configurability

4.6.1. The system should be configurable such that normal business operations like adding product items and adding users may be accomplished without programming support.

4.7. Serviceability

4.7.1. Scheduled outages for system maintenance must be limited to a maximum of one downtime hour per week, and a further maximum of 2 downtime hours per quarter.

4.8. Installability

4.8.1. The solution should be primarily Web-based and the only installation requirement for user computers should be reasonable current operating system and browser.

4.9. Localizability (internationalization)

4.9.1. Support for only U.S. English is required.