



Online Review Deliverables Requirements Specification

1. Scope

1.1 Overview

The Online Review application defines a set of deliverables. This component provides plug-ins to the Deliverable Management component, whose logic is to verify the deliverables and load completion timestamp.

1.2 Logic Requirements

1.2.1 *Submission Checker*

The checker should look for an upload with the submission type. If multiple of them exist the timestamp of the latest one is used.

1.2.2 *Screening Scorecard Checker*

The checker should look for a committed review scorecard for the resource/submission. The update timestamp is used.

1.2.3 *Review Scorecard Checker*

The checker should look for a committed review scorecard for the resource/submission. The update timestamp is used.

1.2.4 *Accuracy/Failure/Stress Test Cases Checker*

The checker should look for an upload with the test case type. If multiple of them exist the timestamp of the latest one is used.

1.2.5 *Appeal Responses Checker*

The checker should look for an appeal response comment for each appeal comment for the resource/submission. If multiple of them exist the timestamp of the latest one is used.

1.2.6 *Aggregation Checker*

The checker should look for a committed review scorecard for the resource. The update timestamp is used.

1.2.7 *Aggregation Review Checker*

The checker should look for an aggregation review comment with the extra info of either approved or rejected. The update timestamp is used.

1.2.8 *Final Fix Checker*

The checker should look for an upload with the final fix type. If multiple of them exist the timestamp of the latest one is used.

1.2.9 *Scorecard Comment Checker*

The checker should look for a scorecard comment with the extra info of either approved or rejected. The update timestamp is used.

1.2.10 *Final Review Checker*

The checker should look for a final review comment with the extra info of either approved or rejected. The update timestamp is used.

1.2.11 *Approval Checker*

The checker should look for a committed review scorecard for the resource/submission. The update timestamp is used.



1.3 Required Algorithms

No specific algorithms are required.

1.4 Example of the Software Usage

The Online Review application will plug the checkers into the Deliverable Management component.

1.5 Future Component Direction

None.

2. Interface Requirements

2.1.1 Graphical User Interface Requirements

None.

2.1.2 External Interfaces

None.

2.1.3 Environment Requirements

- Development language: Java1.4
- Compile target: Java1.4

2.1.4 Package Structure

com.cronos.onlinereview.deliverables

3. Software Requirements

3.1 Administration Requirements

3.1.1 What elements of the application need to be configurable?

- Database connection

3.2 Technical Constraints

3.2.1 Are there particular frameworks or standards that are required?

JDBC

3.2.2 TopCoder Software Component Dependencies:

- Configuration Manager
- DB Connection Factory

****Please review the [TopCoder Software component catalog](#) for existing components that can be used in the design.**

3.2.3 Third Party Component, Library, or Product Dependencies:

None.

3.2.4 QA Environment:

- Solaris 7
- RedHat Linux 7.1
- Windows 2000
- Windows 2003
- Informix 10.0

3.3 Design Constraints

The component design and development solutions must adhere to the guidelines as outlined in the TopCoder Software Component Guidelines.



3.3.1 Database Connections

Database connections must not be cached within the component. Connections should be created for each operation and closed afterwards.

3.4 Required Documentation

3.4.1 Design Documentation

- Use-Case Diagram
- Class Diagram
- Sequence Diagram
- Component Specification

3.4.2 Help / User Documentation

- Design documents must clearly define intended component usage in the 'Documentation' tab of Poseidon.