Online Review Ajax Support Requirements Specification

1. Scope

1.1 Overview

The Online Review application uses AJAX features to enhance user experience. The component provides the server side support for implementing the AJAX interactions. AJAX will be used to set scorecard status, load timeline template, set timeline notification, place and resolve appeals. The AJAX service will be provided as Java servlets.

1.2 Logic Requirements

1.2.1 Ajax Support

The component will provide servlet support for the Online Review application. The input and output will be using XML. The designer is responsible for designing the schema.

1.2.2 Set Scorecard Status

User can set a scorecard to either active or inactive. Acknowledgement should be returned to indicate whether the operation succeeds or not. User must have the global manager role to perform this operation.

1.2.3 Load Timeline Template

User can generate project phases from the selected phase template. The template name will be provided as input, as well as an optional start date. User must have the global manager role to perform this operation.

1.2.4 Set Timeline Notification

User can set timeline notification status. Acknowledgement should be returned to indicate whether the operation succeeds or not. User can set timeline notification with the projects that are either public or for which the user is a resource.

1.2.5 Place Appeal

User can place appeal on a review scorecard during the appeal phase. Appeal can be placed only if there is no appeal on that scorecard item. Acknowledge should be returned to indicate whether the operation succeeds or not. User must have the submitter role to perform this operation, and can only place appeals on their own review scorecard.

1.2.6 Resolve Appeal

User can resolve appeal on a review scorecard during the appeal response phase. Appeal response can be updated if it's already resolved. On successful execution the updated overall score will be returned. User must have the reviewer role to perform this operation, and can only resolve appeal on their own review scorecard.

1.2.7 Logging

Logging should be performed for each operation. Logging must comprise user ID, timestamp, action taken, and entity IDs effected.

1.3 Required Algorithms

No specific algorithms are required.

1.4 Example of the Software Usage

Application will set up the support as servlet(s) and interact with the component in AJAX paradigm. Request will be posted from client side and response will be loaded and parsed to alter the page view.

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.ajax

3. Software Requirements

3.1 Administration Requirements

3.1.1 *What elements of the application need to be configurable?*

None.

3.2 Technical Constraints

3.2.1 *Are there particular frameworks or standards that are required?*

Servlet 2.4

3.2.2 *TopCoder Software Component Dependencies:*

- Scorecard Management
- Review Management
- Project Phases
- Project Phase Template
- Project Management
- Resource Management

**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

3.3 Design Constraints

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

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.