Online Review Requirements Specification

This document outlines the Application Scope and Requirements for Online Review.

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Revision History

Author	Revision Number	Date
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Application Requirements Specification

1. Scope

1.1 Overview

The Online Review and Scorecard Project will make modifications to TopCoder's current online review and scorecard systems to reduce the amount of time spent performing reviews.

The entire infrastructure of Online Review and Scorecards will be redesigned to be more flexible and provide better insight into TopCoder's application process. The current Online Review system automates the TopCoder Software peer review process only for Component Designs and Component Developments. The new infrastructure will allow more project types (i.e. Application Specification, Application Architecture), multiple scorecards per project (i.e. FDA, SOX, SEC), optional review phases (i.e. submission) and custom review phases (i.e. client review). The creation of "on demand" review will allow projects to advance to the next phase as soon as the review is complete rather than wait for a deadline to pass or manually advancing the project to the next phase.

TopCoder wishes to enable the front page of online review to provide proper breakouts of each project phase and also the ability for users to view only projects for which they are associated. This will allow PMs, clients and architects to view project status and timelines for all project types.

The Online Review Application automates the TopCoder Software peer review process for both Component Design and Component Development projects. Reviewers are able to login, check the status of their assignments, download submissions for review, complete online review forms and perform aggregation of reviews. The administration section allows users to set up reviews, assign members, monitor the process and intervene at any stage of development.

TopCoder will modify their current Scorecard Admin tool to enhance the Online Review process. Administrators will have the ability to set multiple default scorecards per project phase and create client specific scorecards. Scorecards will be created for various project types including: Applications, Assembly Competitions, Testing Competitions as well as Components.

Although the application will be initially used by TopCoder, the intention is to build the application in a generic fashion such that it could be used by any organization.

1.2 Objectives

- Design a flexible service oriented online review system that will allow all project participants to easily and quickly perform reviews.

- Provide a consistent interface for all project participants to use while participating in project development.

General Project Metrics:
- PM and Architects spend on average 54 hours a year doing review for one project, for a total of 2690 hours for an estimated 50 projects for this year. The online review tool will reduce this number by an average of 40% for an estimated savings of $53,800 a year.
- Flexibility to add in customer specific, industry specific (FDA, SOX, SEC) and security scorecards, resulting in more sales because clients will be assured of security.

- PMs, clients and Architects will have the ability to view project status and timelines for all applications. This will internally save the PMs $468,000 dollars per year in revenue they could bill on other projects. Additionally, the operations staff will save $11,000 dollars a year spent tracking down and reviewing timelines.
- Currently no tool exists to allow assembly and testing competition deliverables to be reviewed. The online review tool will facilitate assembly and testing competitions and result in a reduction in overall timelines and an increase in quality.
- Assembly and Testing competitions will increase participation outside the current list of 22 assemblers, resulting in a larger member base.
- Assembly competitions will reduce amount of code written. Assemblers will focus on conversion of prototypes and configuration. This will also reduce cost of the assembly phase and increase quality.
- Assembly Competitions will reduce cost of assembly (99% currently overrun).
- Assuming an average of 4.5 weeks of assembly (including overruns), reducing this timeline to 2 weeks and paying set prices for assembly competitions will result in a savings of $21,200 per project.
- Improve quality of the entire process by forcing assemblers to request more components and/or improved deliverables.

1.3   Limitations

- This project will focus on facilitating Applications, Assembly Competitions and Testing Competitions. Components will be integrated during the Dependency Migration project. However consideration of this future direction must be given.
- Versioning will not be handled in this application.

2.   Logic Requirements

2.24   Perform Screening

Screeners and Primary Screener are allowed to perform screenings. If a Primary Screener is assigned they are responsible for screening all submissions.

2.24.1   Perform Screening Activity

2.24.1.1   Select Submission

> The screener must first select the submission to screen.

2.24.1.2   Complete Screening Scorecard

- Scorecards must be configurable from Scorecard Administration.
- Each scorecard will contain:
    o Question Group
    o Question Section
    o Question Text
    o Question Guideline
    o Rating response
    o One or many responses to question
    o At least one response for every question.
    o Responses must consist of:
        ▪ Text response.
        ▪ Response description: requirement, recommendation or other comment (default).
- Scorecards must be initially displayed with 3 text response areas, defaulted with a response

description of comment.
- Response descriptions of type 'comment' with an empty response will not be saved.
- New lines, white space and CR/LF characters must be preserved

2.24.1.3 Preview Scorecard

Screeners must be able to preview a scorecard before finalizing.

2.24.1.4 Validate Scorecard

- After a screener has completed each screening scorecard, the scorecard must be validated.
- The following rules apply:
    o All questions must have answers
    o All responses must have at least one response text

2.24.1.5 Save Scorecard

- The user must have the option to save the scorecard before submission.
- When scorecards are saved but not submitted they must be marked with a "pending" status.

2.24.1.6 Submit Scorecard

- When the user is finished with the screening they must submit the scorecard.
- When scorecards are submitted they must be marked with a "complete" status.

2.24.1.7 Compute Score

After the scorecard has been validated the score will automatically be computed and displayed, the screener will then have the opportunity to return to the project detail page.

2.25 View Screenings

Users are allowed to view the screenings for submissions for which they have access to.

2.25.1 View Screenings Activity

2.25.1.1 Display Screenings

Users are able to see the screenings for the submissions that they have access to only.

Field	Description	Type
Screening date	Date of screening	Text
Screener Handle	Handle of screener performing screening	Text
Screener Email	Email of screener **(ONLY FOR MANAGERS)**	Link
Screening Status	Status of screening	Text
Screening score	Score of screening (link to completed screening scorecard)	Link
Screening result	Submission pass or fail result	Text
Advance to review	Yes or No (if submission advances to review)	Text

2.25.1.2 Select Screening

Uses must choose the screening they wish to view.

2.25.1.3 View Screening Details

- Screenings must display the following read-only information:
    o Question Group
    o Question Section
    o Question Text
    o Question Guideline
    o Rating response

o Zero or many responses to question
o At least one response for any question eliciting a less-than-perfect overall rating.
o Responses must consist of:
▪ Text response.
▪ Response description: requirement, recommendation or other comment (default).

2.26   Perform Review

Reviewers are allowed to perform reviews for submissions that pass screening.

2.26.1 Perform Review Activity

2.26.1.1   Select Submission

The user must select the submission for which to complete a review scorecard.

2.26.1.2   Complete Review Scorecard

- Submitters may no longer submit after their submission enters review.
- Each reviewer must complete a review scorecard for each submission during the review phase.
- Review scorecards must be configurable from Scorecard Administration
- Each scorecard will contain:
  o Question Group
  o Question Section
  o Question Text
  o Rating response
  o One or many responses to question
  o At least one response for every question.
  o Responses must consist of:
    ▪ Text response.
    ▪ Response description: requirement, recommendation or other comment.
- If reviewers have completed all scorecards, but have not submitted, when the end of the review process is reached, the scorecards are submitted (assuming they pass validation).
- Scorecards must be initially displayed with 3 text response areas, defaulted with a response description of comment.
- Response descriptions of type 'comment' with an empty response will not be saved.
- New lines, white space and CR/LF characters must be preserved

2.26.1.3   Preview Scorecard

The user must have the option to preview the scorecard before submission.

2.26.1.4   Validate Scorecard

- After a reviewer has completed the review, the scorecard must be validated.
- The following validation rules must be applied:
  o Every question has at least one response
  o Response text length for any question will be configurable (default 15 characters)

2.26.1.5   Save Scorecard

- The scorecard must be saved to the database
- If a reviewer saves a scorecard without submitting, the scorecard status must be displayed as "pending".

2.26.1.6   Submit Scorecard

- After a user finalized the scored card it will be submitted.
- After submission the scorecard status must be changed to "complete".

2.26.1.7   Compute Score

> After the scorecard has been finalized the score will automatically be computed (by a configurable weighted matrix) and displayed, the reviewer will then have the opportunity to return to the project detail page.

2.28   View Reviews

Users are allowed to view reviews for submission for which they have access to.

2.28.1   View Review Activity

2.28.1.1   Display Reviews

The Manager, Observer, Submitter, Screener, Aggregator, Final Reviewer, Approver, Public and Designer roles must be allowed to view all reviews from all reviewers for the submissions they have access to.

Field	Description	Type	Required
Review Date	Date review is completed	Text	Yes
Reviewer Handle	Handle of reviewer	Text	Yes
Reviewer Email	Link to reviewer email **(ONLY FOR MANAGERS)**	Link	Yes
Review status	Status of review	Text	Yes
Overall score	Average of all review scores (link to composite scorecard)	Link	Yes
Reviewer scores	Link to scorecard	Link	Yes

2.28.1.2   Choose Review

> The user must select the review they wish to view.

2.28.1.3   Display Review Details

> Each scorecard will display
> - Question Group
> - Question Section
> - Question Text
> - Rating response
> - Question Response
> - Response description

2.29   View Reviewer Reviews

Reviewers are only allowed to view their reviews.

2.29.1   View Review Activity

2.29.1.1   Display Reviews

> Reviewers must only be allowed to view their reviews for the submissions they have access to.

Field	Description	Type	Required
Review Date	Date review is completed	Text	Yes
Reviewer Handle	Handle of reviewer	Text	Yes
Review status	Status of review	Text	Yes

| Reviewer scores | Link to scorecard | Link | Yes |

2.29.1.2   Choose Review

The user must select the review they wish to view.

2.29.1.3   Display Review Details

Each scorecard will display
- Question Group
- Question Section
- Question Text
- Rating response
- Question Response
- Response description

2.30   Edit My Review during Review

Reviewers are allowed to edit their own reviews during the review phase.

2.30.1 Edit Review Activity

2.30.1.1   Edit Review

Reviewers may edit any scorecard detail.

2.30.1.2   Validate Review

The review scorecard must be validated before submission.

2.30.1.3   Save Review

When reviewers have completed editing the review scorecard they must save and re-submit the scorecard.

2.31   Perform Appeals

Submitters are allowed to submit appeals during the appeals phase.

2.31.1 Perform Appeals Activity

2.31.1.1   Choose Review
- The user must select the review for which they wish to submit appeals
- The submitter must be allowed to view the scorecard while performing appeals.

2.31.1.2   Choose Question

Submitters must select a question to appeal.

2.31.1.3   Enter Appeal Text
- Submitters must enter appeal text.
- New lines, white space and CR/LF characters must be preserved

2.31.1.4   Submit Appeal
- Submitters are required to submit appeals individually

2.32   View Appeals

Users must be allowed to view appeals for submissions they have access to only.

2.32.1 View Appeal Activity

2.32.1.1   Choose Review Scorecard

The user must choose the scorecard for which they wish to view appeals.

2.32.1.2   Display Appeals

- Appeals must be displayed for each review as they are submitted.
- The user must be able to view the scorecard with appeals.
- Appeal text will be displayed with each question that has an appeal

2.33   Perform Appeal Response

During the review phase, users with the reviewer role may submit appeal responses for the appeals from their review scorecard.

2.33.1 Perform Appeals Response Activity

2.33.1.1   Choose Review Scorecard

- The user must choose the review scorecard for which they wish to perform appeals response.
- The submitter must be allowed to view the scorecard while performing appeals.

2.33.1.2   Select Appeal

Reviewers must choose the appeal to respond to.

2.33.1.3   Enter Appeal Response

- Reviewers must enter appeals response text.
- Reviewers must select a modified response
- New lines, white space and CR/LF characters must be preserved

2.33.1.4   Submit Appeals Response

Reviewers are required to submit appeal responses individually.

2.34   View Appeals Response

Users must be able to view appeal responses for submissions they have access to only.

2.34.1 View Appeals Response Activity

2.34.1.1   Choose Review

The user must choose the review for which they wish to view the appeal responses.

2.34.1.2   Choose Appeal

The user must choose the appeal for which they wish to view the appeal response.

2.34.1.3   Display Appeals Response

- Appeal responses must be shown as they are received.
- Appeal Response text will be displayed with each appeal text.
- Users must be able to view the appeals along with the response.

2.35   Edit My Appeal Response during Appeals Response

Reviewers are allowed to edit their appeal responses during the appeals response phase.

2.35.1 Edit My Appeal Response during Appeals Response Activity

2.35.1.1   Check Project State

- Reviewers may edit appeal responses during the appeals response phase.
- Reviewers must be allowed to edit scores for their reviews.

2.35.1.2   Choose Scorecard

Users must first choose the scorecard for which they wish to edit appeal responses.

2.35.1.3   Choose Appeal Response

Users must choose an appeal response to edit.

2.35.1.4   Edit Appeals Response

Users must enter the appeals response text.

2.36   Perform Aggregation

Aggregators must perform aggregation during the aggregation phase.

2.36.1 Perform Aggregation Activity

2.36.1.1   Complete Aggregation Scorecard

- Aggregation scorecards must contain all the comments from the individual reviewer scorecards.
- The aggregator must select rejected, accepted or duplicate for each review question response.
- Each aggregation scorecard must contain the following:
    - Question Group
    - Question Section
    - Question
    - Reviewer handle
    - Question Response
    - Aggregator Response (text area)
    - Response Type (required, recommended, comment)
    - Aggregate Function (rejected, accepted, duplicate)

2.36.1.2   Preview Aggregation

The user must be able to preview a read-only version of the aggregation scorecard.

2.36.1.3   Validate Scorecard

The scorecard must be validated.

2.36.1.4   Save Aggregation

- The aggregation may be saved for later.
- If the aggregation is saved for later, it must be displayed with a "pending" status.

2.36.1.5   Submit Aggregation

- Once the aggregation is submitted it is ready for aggregation review.
- When the aggregation is submitted it must be displayed with a "complete" status.

2.37   View Aggregation

Users are allowed to view the aggregation scorecard once complete.

2.37.1 View Aggregation Activity

2.37.1.1   Display Aggregation

- All roles will be able to view the aggregation scorecard when it is available.
- Submitter handles will now be displayed.
- Aggregation scorecards contain:
    o Question Group
    o Question Section
    o Question
    o Reviewer handle
    o Question Response
    o Aggregator Response
    o Response Type
    o Aggregate Function (rejected, accepted, duplicate)

2.38 Perform Aggregation Review

Each reviewer (except if the reviewer is also the aggregator) must review the aggregation.

2.38.1 Perform Aggregation Review Activity

2.38.1.1   Complete Aggregation Review

- Reviewers may reject or approve comments from any scorecard
- The user will view the following information for each question:
    o Question Group
    o Question Section
- Each question response will contain the following:
    o Reviewer handle
    o Comment Number
    o Question Response Text
    o Response Type
    o Status
    o Aggregator Comments
    o Submitter Comments
    o Review Function (accept (default) or reject)
    o Reviewer Comment (required for rejected)

2.38.1.2   Submit Approved Aggregation Review

   If the reviewers approve the aggregation they must submit the approved aggregation.

2.38.1.3   Reject Aggregation

- If any item is rejected the whole aggregation is rejected.
- The reviewer who has rejected items must receive an email notification of the rejection.
- If an aggregation is rejected, the system will automatically instantiate a new aggregation and aggregation review phase, the aggregation scorecard will be pre-filled with the latest aggregation information.
- No phases will be instantiated or emails sent until each aggregation review is submitted.

2.39 View Aggregation Review

Users are allowed to view the aggregation reviews after they are complete.

2.39.1 View Aggregation Review Activity

2.39.1.1   View Aggregation Review

- All users may view the completed aggregation scorecards.
- The aggregation comments (from Submitters) must be displayed.

2.42 Perform Final Review

Final reviewers are allowed to perform final review.

2.42.1 Perform Final Review Activity

2.42.1.1   Complete Final Review

- o The final review scorecard is a result of the aggregation review
- o The following information will be displayed for each question:
    - o Final Review Section
    - o Final Review Question
    - o Reviewer Handle
    - o Reviewer Response
    - o Aggregator response
    - o Submitter comment
    - o Reviewer comment
    - o Type (required, comment or recommended)
    - o Status (fixed or not fixed)
    - o Response text (text-box)

2.42.1.2   Validate Final Review

2.42.1.3   Save Final Review

Final Reviewers must have the option to save final reviews for later.

2.42.1.4   Approve Final Fixes

Final Reviewers may approve final fixes.

2.42.1.5   Verify Non-Approval

If the final reviewer does not select "approve final fixes", the system must confirm the user intends to submit without approval.

2.42.1.6   Submit Final Review

If the submission fails final review, the system will automatically instantiate a new final fix and final review phase and switch to the new final fixes phase.

2.43 View Final Review

Users must be able to view the final review scorecard when complete.

2.43.1 View Final Review Activity

2.43.1.1   Choose Final Review

The user must choose the final review for the submission they wish to view.

2.43.1.2   Display Final Review

- o   The following information will be displayed for each question:
  - o   Final Review Section
  - o   Final Review Question
  - o   Reviewer Handle
  - o   Reviewer Response
  - o   Type
  - o   Status
  - o   Aggregator Response
  - o   Reviewer Comment
  - o   Submitter Comment
  - o   Final Reviewer Comment
  - o   Submitter Comments
- o   For each review the following information will be displayed:
  - o   Final Review status (approved or rejected)

2.44   Submit Scorecard Comment

2.44.1 *Submit Scorecard Comment Activity – Aggregation*

Submitters must be able to submit comments for items on the aggregation scorecard (anytime during aggregation and aggregation review).

2.44.1.1   Display Aggregation

The system will display the aggregation with the ability for submitters to post comments for each item

2.44.1.2   Enter Aggregation Comment

- The submitter must enter a comment.
- New lines, white space and CR/LF characters must be preserved

2.44.1.3   Approve Scorecard

Submitters must submit their comments (if any) and approve the aggregation scorecard when finished adding comments.

2.45   Perform Approval

Optional phase for custom client and manager reviews. Users with the approver role can perform approvals

2.45.1 *Perform Approval Activity*

2.45.1.1   Complete Approval

2.45.1.2   Validate Approval

2.45.1.3   Save Approval

- The Approval may be saved for later.
- Approvals that are saved must be displayed and marked as pending.

2.45.1.4   Submit Approval

When the approver has completed the approval, they must submit the approval.

2.46   View Approval

Users are allowed to view the approval scorecards.

2.46.1   View Approval Activity

2.46.1.1   Display Approval

The approval must display in a read-only format.

2.47   Edit Any Scorecard

Managers may edit submitted scorecards at any time.

2.47.1   Edit Any Scorecard Activity

2.47.1.1   Select Scorecard

- The manager must select the scorecard for editing.
- Managers must provide a written audit trail, which must be viewable to anyone who can view the scorecard, when a change is made.

2.47.1.2   Edit Scorecard

Managers may edit all scorecard details.

2.52   View Composite Review

Users who are allowed to view all reviewers reviews may view the composite review for submissions they have access to.

2.52.1   View Composite Review Activity

2.52.1.1   Select Submission

The user must select the submission for which they wish to view the composite review

2.52.1.2   View Composite Review

The composite review will contain the following information

Field	Description	Type	Required
Submission id	Id for submission	Text	Yes
My Role	Role for user viewing scorecard	Text	Yes
Scorecard Name	Name of scorecard	Text	Yes
Scorecard Group	Group of scorecard questions	Text	No
Scorecard Section	Section for question group	Text	Yes
Question	Scorecard question	Text	Yes
Average	Average score from all reviewers	Number text	Yes
Individual reviewer scores	Scores from each reviewer	Number text	Yes
Question response	Responses from reviewers	Text	Yes

3.   Technical Requirements

3.1   Graphical User Interface Requirements

Graphical User Interface will be built as a series of JSP pages.

3.1.1   General Display

Information must be able to be stored without refreshing the entire screen.

3.1.2   Member Handles

All member handles must display in the TopCoder member handle color scheme with a link to member profile.

3.1.3   Timeline Phase Dependencies

When project timelines are displayed the GUI must provide indication of phase dependencies in the timeline display itself.

3.1.4   Project Deadlines

The GUI for the project list must indicate when projects are nearing their due date or behind schedule. For example projects that are near their due date could be displayed in yellow and projects that are past their due date could be displayed in red.

3.1.5   Phase Deadlines

The GUI for timeline phases must indicate when phases are behind schedule. For example phases that are near their due date could be displayed in yellow and phases that are past their due date could be displayed in red.

3.1.6   Tool Tips

Tool Tips should be displayed for items requiring additional information.

3.1.7   Browser Support

The application must work in both IE 6.0.+ and Firefox 1.5.+ on Windows (XP, 2000) and Firefox 1.5.+ on Mac O/S.

3.1.8   HTML will follow XHTML standards

3.1.9   CSS

The look and fell, as well as the branding of the UI, should be easily changed by modifying or replacing style sheets.

3.1.10 GUI Must Conform to Prototype

The prototype developed by the TopCoder Software Information Architect provides a detailed example of the look and feel of the final application. Any changes made during later phases must be noted.

3.2   Communication Interfaces

3.2.1   HTTP

This will be used by users to access the non-secure areas of the website over the internet. Port 80 (standard) will be used.

3.2.2   HTTPS

This will be used by customers to access the secure parts of the site over the internet. Port 443 (standard) will be used.

3.2.3   JDBC

The application will connect to the database via JDBC.

3.2.4   SMTP

SMTP will be used between JBoss and the SMTP server to send mail from the application.

3.2.5   Web Services

In order to facilitate offline reviews in future phases; Web Services must be used to perform communication between the client app and the application servers.

3.3   Environment Requirements

3.3.1   Operating System[s]

Web Servers – RedHat Linux 9
Application Servers – RedHat Enterprise Linux 4
Database Servers – RedHat Linux 7.1

3.3.2   Software Development Versions

Java 1.4.2

3.3.3   Database

10.00.UC3R1

3.3.4   Application Server

JBoss 4.0.2

3.3.5   Servlet Engine

Tomcat 5.5

3.3.6   mod_jk

3.3.7   Web Server

Apache 1.2

3.3.8   Hardware

Web Servers – Dual Intel 860Mhz

Application Servers – Dual Intel 3.6Ghz

Database Servers – Quad Intel 700Mhz

Firewall – Cisco Pix

Local Director – Cisco port based load balancer

3.4   Are there particular frameworks or standards that are required?

- JSPs will follow Struts framework
- JDBC will be used for database access

3.5   Third Party Component, Library, or Product Dependencies

3.5.1   AJAX

AJAX is required for general display GUI requirements.

3.5.2   JavaMail

JavaMail will be used to facilitate the SMTP communication.

3.6   Design Constraints

3.6.1   J2EE

3.6.2   Auditing

Auditing must be performed during all project editing, creation and deletions. Each audit will contain information about who performed the modification, when the modification was performed and the information that was modified.

3.6.3   Deletes

The system must not delete information from the database.

3.6.4   Web Services

All information should be stored in the back end in a way to support various front end clients.

3.6.5   Session Maintenance

The system must allow users to perform simultaneous edits and/or viewing among multiple browser sessions

3.6.6   Validation

The system must perform validation with both front end and back end logic.

3.7   Performance Constraints

3.7.1   Page Load Performance

An average page load time of 2 seconds will exist.

3.8   Security

3.8.1   Security Roles

3.8.1.1 Permissions

All security checks will occur against permissions. Each function in the system will validate a user's permission against the required permission for the task.

3.8.1.2 Roles

One or more permissions will be assigned to roles. A user may have more than one role.

Below is a list of roles and permissions:

	Manager	Observer	Submitter	Screener	Reviewer	Aggregator	Final Reviewer	Approver	Public	Designer	System
Create Scorecard	X										
Edit Scorecard	X										
View Scorecards	X										
Create Project	X										
Edit Project Details	X										
Set Timeline Notifications	X	X	X	X	X	X	X	X		X	

View Projects	X								X	
View My Projects	X	X	X	X	X	X	X	X	X	
View Projects Inactive	X									
View Project Detail	X	X	X	X	X	X	X	X	X	X
View Project Resources	X	X								
View SVN Link	X	X			X	X	X			
View All Payment Information	X	X								
View My Payment Information			X	X	X	X	X	X		
Contact Project Managers	X	X	X	X	X	X	X	X	X	
View Registrations	X	X								
Perform Submission			X							
View All Submissions	X							X		
View My Submissions			X							
View Screener Submission				X						
View Most Recent Submissions		X			X					
View Winning Submission						X	X		X	X
View Most Recent after Appeals Response									X	X
Remove Submission	X									
Perform Screening				X						
View Screening	X	X	X	X		X	X	X	X	X
Perform Review					X					
Upload Test Cases					X					
Download Test Cases	X	X	X		X			X		
View All Reviews	X	X	X		X	X	X	X	X	X
View Reviewer Reviews					X					
View Composite Scorecard	X	X	X			X			X	
Edit My Review during Review				X						

Perform Appeal			X								
View Appeals	X	X	X		X				X	X	X	
Perform Appeals Response					X							
View Appeal Responses	X	X	X		X				X	X	X	
Edit My Appeal Response during Appeals Response				X								
Perform Aggregation					X							
View Aggregation	X	X	X		X				X	X	X	
Perform Aggregation Review						X						
View Aggregation Review	X	X	X		X				X	X	X	
Perform Final Fix			X									
Download Final Fix	X	X	X				X	X				
Perform Final Review							X					
View Final Review	X	X	X				X	X	X	X		
Submit Scorecard Comment			X									
Perform Approval	X							X				
View Approval	X	X	X					X				
Edit Any Scorecard	X											
End Phase												X
Advance Submission												X
Post Deliverables												X

3.8.2   Password Logic

Password logic will be handled outside of this application.

4.   Required Documentation

4.1   Specification Documentation

- Requirements Specification (this document)
- High Level Use Case Diagrams
- Activity Diagrams
- Architecture Diagram
- Logical data model (as needed)
- Site Map
- Site Definition

- User Interface Prototype
- Quality Assurance Plan
- High Level Test Scenarios

5. Help / User Documentation

6. Notes

7. Future Enhancements

7.1 Offline Scorecards

The application must allow users to perform all reviews while offline. Users may download review scorecards and complete them offline, when a user returns online they may upload the completed scorecard.

7.2 Dynamic Question Types

Scorecard questions will have the ability to be generated dynamically based on an XMI document.

8. Glossary

8.1 Definitions

8.1.1 *Project*

A set of phases, submissions and deliverables used to perform a review of various software application process components.

8.1.2 *Submission*

The items being reviewed in the Online Review process.

8.1.3 *Deliverable*

A document or process requirement set forth by the phase. Each phase has 1 or more deliverables. Deliverables must exist before the project phase advances.

8.1.4 *Phase*

A state an active project exists in at any given time. The project can only exist in one phase at a time. Each phase has a specified set of deliverables.

8.2 Acronyms