



Software Documentation : Java Custom Cockpit Submission Manager 1.2

This page last changed on Jul 12, 2009 by [mashannon168](#).

1. Scope

1.1 Overview

This component contains a SubmissionManager interface and an ejb implementation that handles contest submissions in persistence. In version 1.2 of this component the SubmissionManager and its implementation will be updated (new methods will be added).

1.1.1 Version

1.2

1.2 Logic Requirements

1.2.1 Update SubmissionManager and its current implementation (SubmissionManagerBean)

In this new version of the component the SubmissionManager interface and its ejb implementation, SubmissionManagerBean, will be updated with new methods. This competition will handle the classes presented in "Submission Manager 1.2 Class Diagram" from uml.

The following methods will be added:

- getMilestoneSubmissionsForContest will get the submissions for which submission type is "milestone_submission_type"
- getMilestoneSubmissionsForContest will get the milestone submission for the given contest (milestone submissions will be identified by SubmissionData.submissionType = "milestone_submission")
- getFinalSubmissionsForContest will get the submissions for which submission type is "final_submission_type" Methods that work with SubmissionData also need to be updated to take into consideration the update made to SubmissionData class

1.2.2 Update diagram

The class diagrams of this component are not up-to-date and this will be resolved in this competition. The competing designers will check the current code and update the class diagrams of this component. If necessary, the use case diagram and sequence diagrams also need to be updated.

1.3 Required Algorithms

None.

1.4 Example of the Software Usage

The ejb is used to manage the contest submissions in persistence.

1.5 Future Component Direction

None

2. Interface Requirements



2.1.1 Graphical User Interface Requirements

None

2.1.2 External Interfaces

Design will follow "Submission Manager 1.2 Class Diagram" from uml.

2.1.3 Environment Requirements

- Development language: Java1.5
- Compile target: Java1.5

2.1.4 Package Structure

com.topcoder.service.studio.submission

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?

- Java 1.5
- EJB 3.0
- Hibernate 3.2 or higher
- JPA 1.0

3.2.2 TopCoder Software Component Dependencies:

- Base Exception 2.0 - TopCoder standard for all custom exceptions.
- Contest and Submission Entities 1.0 - Provides the entities used by this component.
- Logging Wrapper 2.0 - Used for logging operations in the SubmissionManagerBean.

3.2.3 Third Party Component, Library, or Product Dependencies:

None.

3.2.4 QA Environment:

- RedHat Linux 9
- Informix 10
- JBoss 4.2
- Hibernate 3.2 or higher

3.3 Design Constraints

The component design and development solutions must adhere to the guidelines as outlined in the TopCoder Software Component Guidelines. Modifications to these guidelines for this component should be detailed below.



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.