



Scorecard Requirements Specification

1. Scope

1.1 Overview

A scorecard is a template to produce reviews. The scorecard hierarchy consists of groups, sections and questions. Weight can be assigned on each level to control the contribution to the overall score of the scorecard. Different question types are supported and each question will allow a document, test log for instance, to be uploaded in addition. A scorecard has minimum and maximum passing score, as well as type, status and category attributes. The component defines the scorecard data structure. Separate component will be developed to provide management functionality.

1.2 Logic Requirements

1.2.1 Scorecard Type

A scorecard will be associated with a type. A scorecard type consists of

ID	a numeric identifier
Name	name of the scorecard type for display purpose

1.2.2 Scorecard Status

A scorecard will be associated with a status. A scorecard status consists of

ID	a numeric identifier
Name	name of the scorecard status for display purpose

1.2.3 Scorecard

1.2.3.1 Scorecard

A scorecard consists of

ID	a numeric identifier
Name	name of the scorecard
Version	version of the scorecard, will be a String
Type	each scorecard will have a type
Status	each scorecard will have a status
Category	scorecard will be associated with a project category, this could be represented by a numeric identifier
Minimum Score	the minimum acceptable score for the scorecard
Maximum Score	the maximum acceptable score for the scorecard
Currently In Use	a Boolean flag indicating whether the scorecard is currently in use
Groups	one or more ordered scorecard groups as specified in 1.2.3.2

1.2.3.2 Scorecard Group

A scorecard group consists of

ID	a numeric identifier
Name	name of the group
Weight	weight of the group in the scorecard, weights of groups in a single scorecard should add up to 100
Sections	one or more ordered scorecard sections as specified in 1.2.3.3

1.2.3.3 Scorecard Section

A scorecard section consists of

ID	a numeric identifier
Name	name of the section
Weight	weight of the section in the group, weights of sections in a single group should add up to 100



Questions one or more ordered scorecard questions as specified in 1.2.3.4

1.2.3.4 Scorecard Question

A scorecard question consists of

ID	a numeric identifier
Type	each question will have a type as specified in 1.2.4
Description	the textual description for the question
Guideline	the optional scoring guideline for the question
Weight	weight of the question in the section, weights of questions in a single section should add up to 100
Document Upload	a Boolean flag indicating whether the question allows an attachment
Upload Required	a Boolean flag indicating whether the attachment is required

1.2.4 Scorecard Question Type

A scorecard question will be associated with a type. A question type consists of

ID	a numeric identifier
Name	name of the scorecard type for display purpose

The logic to evaluate the answer based on the question type is not in the scope of this component.

1.2.5 Auditing Fields

Scorecard must also include auditing fields of creation/modification operator and timestamp.

1.3 Required Algorithms

No specific algorithms are required.

1.4 Example of the Software Usage

A scorecard/review application can use the component to represent scorecard in memory.
Application user can create and modify scorecards on the web interface.

1.5 Future Component Direction

Separate component will be developed to calculate review scores.

2. Interface Requirements

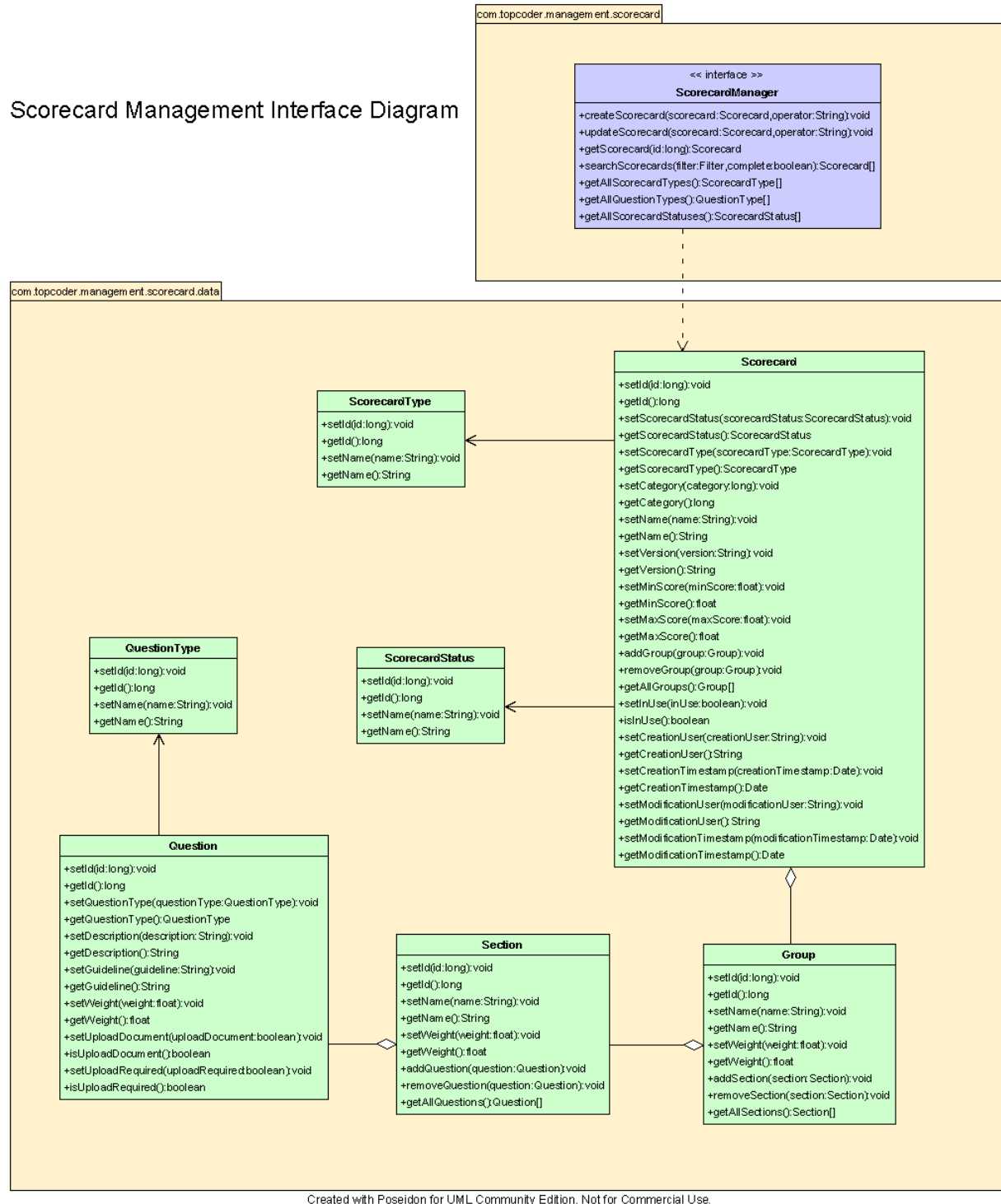
2.1.1 Graphical User Interface Requirements

None.

2.1.2 External Interfaces

Design must adhere to the interface diagram definition. Designer can choose to add more methods to the classes/interfaces, but must keep the ones defined on the diagram as a minimum.
Source files can be found in the distribution.

Scorecard Management Interface Diagram



2.1.3 Environment Requirements

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

2.1.4 Package Structure

com.topcoder.management.scorecard.data



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?

None.

3.2.2 TopCoder Software Component Dependencies:

None.

****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.