Functional and Data Requirements:

*Scorekeeper Scheduling System*

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**Table of Contents**

Contents

[Introduction 2](#_Toc514788590)

[Purpose 3](#_Toc514788591)

[Change History/ Authors 3](#_Toc514788592)

[Functional/Data Requirements 3](#_Toc514788593)

[Overview of Functional Requirements 3](#_Toc514788594)

[Conceptual Entity Relationship Diagram 4](#_Toc514788595)

# Introduction

This document details the functional and data requirements for the Scorekeeper Scheduling System. This document is structured in the following manner:

* This introduction.
* Purpose of the document.
* Document change history and authors.
* Description of business processes supported.
* Functional and data requirements of the underlying system, including:
  + Overview of functional requirements and descriptions
  + Conceptual Entity-Relationship Diagram (ERD).

# Purpose

The purpose of the Scorekeeper Scheduling System is to support the scheduling of scorekeepers to baseball fields for Mens, Mens Advanced, Coed and Coed Advanced games. The specific areas supported are:

* Enable the creation, update and soft deletion of scorekeepers.
* Enable the creation, and deletion of game schedules with associated scorekeepers.
* Enable the browsing of scheduled games by week and month.

# Change History/ Authors

The following is the change history and authors for this document:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version** | **Reason** | **Date** | **Authors** | **E-mail** |
| V0.1 | Initial Document Creation | 5/22/2018 | James Adams and Carri Martin | [jbadams@regis.edu](mailto:jbadams@regis.edu),  [cmartin007@regis.edu](mailto:%20cmartin007@regis.edu) |

# Functional/Data Requirements

This section will detail the functional and data requirements. The first sub-section will detail the functional requirements in a textual/table format by requirement number, and the last sub-section will describe the data requirements in ERD format.

## Overview of Functional Requirements

The following are a listing of functional requirements for the Scorekeeper Scheduling System:

| **Scorekeeper Scheduling System Functional Requirements** | | |
| --- | --- | --- |
| **Requirement Number** | **Requirement Description** | **Comment** |
| FR-001 | The Scorekeeper Scheduling System will support the creation, update, deletion and viewing of baseball field game schedules and the associated scorekeepers which score each game. |  |
| FR-002 | The Scorekeeper Scheduling System will support the browsing and of field/game daily schedule by week and month with the associated scorekeepers and dates. |  |
| FR-003 | The Scorekeeper Scheduling System will support the searching of field/game schedules by start date, start of the week, Sunday. |  |
| FR-004 | The Scorekeeper Scheduling System will allow creation, update and deletion of scorekeepers, and if an existing scorekeeper is deleted it is a soft delete, it will not delete the already scheduled scorekeeper, but will not allow the scorekeeper to be scheduled moving forward. Having a deleted flag Y/N |  |
| FR-005 | The Scorekeeper Scheduling will provide reference lookup data, Field, for lookup the field being scheduled. |  |
| FR-006 | The Scorekeeper Scheduling System will provide Game\_Type lookup data on the Mens, Mens Advanced, Coed and Coed Advanced games being scheduled. |  |
| FR-007 | For the Field\_Scorekeeper\_Schedule entity, field\_id, scorekeeper\_id and date form the primary key with foreign keys: field\_id, scorekeeper\_id and game\_type to Field and Scorekeeper and Game\_Type entities. |  |
| FR-008 | The primary key to the Game\_Type entity is game\_type\_id. |  |
| FR-009 | The primary key to the Scorekeeper entity is scorekeeper\_id. |  |
| FR-010 | The primary key to the Field entity is field\_id. |  |

## Conceptual Entity Relationship Diagram

The following is the conceptual level entity-relationship diagram for the Scorekeeping Scheduling System.

* Figure 9: Conceptual Level ERD – Scorekeeper Scheduling System*