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**Soccer Club Application**

Final Project Design Document

Prepared by: Ryan Forrester

Date Submitted: June 2, 2014

# Document Change Control

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| **Date** | **Authors** | **Summary of Changes** |
| June 2, 2014 | Ryan Forrester | Started the project design. Added the basic interfaces as well as elaborated on the primary functions of the project. |
| June 6, 2014 | BJ MacLean | Comments |
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# Document Sign-Off

The following people have reviewed and approved the entire content of this document.

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| **Position** | **Name** | **Signature** | **Date** |
| CEO | Ryan Forrester |  | June 2, 2014 |
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# 1.1 Project Team members

Ryan Forrester

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# 1.2 Project Description

This project will be used to keep track of the field usage of a soccer club and will provide the functionality of letting a coach book a field as well as a ball bag for a certain time slot.

This project could help organize the day-to-day activities of a soccer complex by providing a convenient booking system. Coaches will be able to book a field and ball bag for their team by signing into the system and selecting a field. The fields will have specific time slots for booking.

Suggestion: Focus on the field and bag booking first. Have the database created effectively to store this information and have it loaded from the application. Then build the functionality to view the schedule of bookings. Some of the other functionality could be added afterwards.

# 1.3 Primary Functions

Would expect some more detail in the design document concerning the primary functions. What will they be doing more precisely?

### 1.3.1 Guest View

This view will allow anyone to see when a field is booked.

How?

### 1.3.2 Login

Users will have a userName and password which will be used to login to the system. Also, Administrative login will be able to remove a booked field.

### 1.3.3 Field reservation

The users that have logged in are allowed to book fields and ball bags for certain time slots.

How?

### 1.3.4 View User Booking

View the booked fields of an individual user.

### 1.3.5 Create a User

Create a user that is allowed to book fields. The user will have to use a pin that is given to them by the soccer club in order to make a user.

# 1.4 Secondary Functions

* administrators can add fields and ball bags
* administrators can delete fields and ball bags
* administrators can undo any users booked fields as well as delete users.
* coaches can undo the time slot that they booked
* coaches can book a time on a field weekly, instead of just booking for one day.
* Users can go and change their name as well as their contact information. password changing can also be added.

# 2.1 Class Design

The following classes will be used to provide the functionality of the system. These classes will correspond to the database tables which will be used to store the information. More classes may be added as the project grows.

User Class - This class will contain the information of whomever is logged in.

CheckLogin - This class will check the login information that is given to it to and validate whether or not the user has entered the information properly.

User Creation - This is a secondary function that will allow users to be created. Since you need to be a coach to book fields you would need permission from your soccer club to be able to book a field. Which is why users may be just be created manually. But, there is also an option to allow a user to be created but first they must enter a pin number that was given to them by the soccer club. If the pin is correct, the person would be allowed to create a user. Some functionality would have to be that a pin can only be used once.

Field and ball bag information??

# 2.2 Interface Design

Provide a mockup of the screens that you expect to use in your project. Also provide a brief description (paragraph of two) describing each of the screens to be used in your program.

\*\*Please Note\*\*

The following designs do not include the tiles that will be used for almost every page. There will be a menu on the left side and a footer at the bottom of every page.

### 2.2.1 Main Menu

The main menu screen will have two options on it. There will be a normal login, but also an option to enter the site as a guest.

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| Soccer Complex  Main Menu  Member Id  Password:  Submit Cancel  or  Sign in as Guest |

### 2.2.2 The Schedule (Day View)

The schedule displays when the fields are booked in a clean ordered fashion. It provides a way to see when the field are booked and also an option to click on an empty time slot to take you to the book a field screen. fields that are “open” do not have anyone booked for that time. fields that are booked display the userName (or the team name, not sure yet). This schedule appears roughly the same for the users that are logged in as well as the guest login. This is the view after selecting the day out of the week.

Some of this functionality (although user friendly) may be difficult to implement. If so, can adjust the design to match (if required).

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soccer Complex  Schedule   |  |  |  |  | | --- | --- | --- | --- | | Time | Field 1 | Field 2 | Field 3 | | 3:00-4:00 | open | open | booked by: userName | | 4:00-5:00 | booked by: userName | open | open | | 5:00-6:00 | open | booked by : userName | open | | 6:00-7:00 | booked by: userName | open | booked by: userName | |

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### 2.2.3 Field Booking

This page is only displayed for the user that logs in. It provides the simple task of asking for the team name that the field is booked.

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| Soccer Complex  Field Booking  You are about to book field 1 from 5:00 to 6:00.  What is the team name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Submit |

### 2.2.4 Week View

This could be moved to a secondary function if necessary.

In this view, the user selects a day out of the week so that they can see the field booking for that day. current day would be highlighted. Another option for this would be to just display the next 7 days instead of just displaying the current week.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Soccer Complex  Week Schedule   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Sunday  June 1 | Monday  June 2 | Tuesday  June 3 | Wednesday  June 4 | Thursday  June 5 | Friday  June 6 | Saturday  June 7 |   Previous Next |

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### 2.2.5 Booking Overview

This could also be secondary functionality if needed. The ‘core’ functionality seems to be the ability to see the schedule and to book fields/bags.

This page will display all the users that have booked fields. Clicking on a user will display a list of the fields and the time that the user has booked them.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Soccer Complex  User Overview   |  |  | | --- | --- | | User | Fields Booked | | Ryan | 5 | | Evan | 3 | | George | 3 | | Bill | 1 | |

### 2.2.6 User Booked Fields

This view displays all the fields that are booked by an individual user.

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| --- | --- | --- | --- | --- | --- |
| Soccer Complex  User Overview   |  | | --- | | Ryan | | Field 1, 1:00pm, June 3rd | | Field 3, 6:00pm, June 4th | | Field 1, 4:00pm, June 6th | | Field 4, 5:00pm, June 20th | |

### 2.2.7 User Creation

This page is used to create a user that will be aloud to book fields.

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| Soccer Complex  User Creation  User PIN (*Provided by the complex*):  First Name:  Last Name:  Phone Number:  E-Mail Address:  Password:  Confirm Password:  Submit |