



# Sports Management System

## Executive Summary

Sports Management System is a product to manage games/sports played at schools. This is an application that was developed to keep track of different sporting events with multiple games played between multiple schools and students. Our client was from the education industry in USA, looking to come up with an application that can not only deliver the above mentioned functionality but, could also display event results, event mappings with many-to-many relations showing statistical reports, charts, graphs of different games, students, schools against their opponents.



They had the specification document ready but, were not able to find a suitable company to deliver their needs. Then, they found Mindfire Solutions. An inquiry was sent to Mindfire, with the specifications. Mindfire was asked to provide a feasible solution for their requirement. After hours of brainstorming between our technical team, we proposed a solution. The client was satisfied with the proposal and immediately accepted it. The client was really happy to receive a nice looking and good product that met their objective.

## About our Client

**Client** Educational Institution | **Location** USA | **Industry** Education

## Business Situation

Our client was aiming to, streamline management of various sporting events held at schools, and make it easily accessible for the users. Schools can buy this product from him and efficiently manage details of various games/sports played. Apart from this the client also wanted to keep track of the results of various events and also there mapping with many-to-many relations. There was also requirement to create different statistical reports, charts, graph of different games, students, schools against their opponents thus providing every minute detail of the event. He also was interested in providing a video upload and image upload feature to the application which can be viewed by the users later. He was keen to implement these features both for game and students.

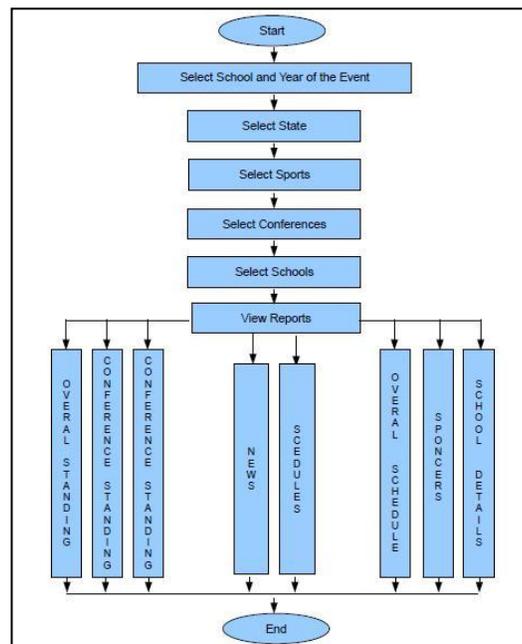
With these many number of objectives and critical business logic implementation in mind, the client approached Mindfire Solutions Adobe team to find and propose them with a feasible solution. Mindfire's experts took no time to start discussing about the specifications sent by the client and finally proposed a way to get a robust application in place.



## Solution Details

### The Mindfire Solution

Mindfire’s Adobe team took the initiative of designing a workflow for the development of the application. Due to the demand of richness in user interface, all public part of the website is build using Flex. ColdFusion 8.0 is used for building the admin pages, business and data layer. The application that was developed had number of pages built to incorporate the various features aimed. It could efficiently manage data for numerous schools participating in different sports with multiple students participating in multiple sports. The flow diagram based on which the application was built is provided below:



The flow diagram illustrates the working of the application. As shown, it has a number of inner pages and also available are options to generate reports. The functionality of the application has been described below:

- A particular sport can have multiple games and schools, and students from different schools can take part in the multiple games.
- The application keeps track of all these events, event results, event mappings.
- The application creates different statistical reports, charts, graphs of different games, students, schools against their opponents.
- Users can upload game videos and game images to the system, which can be viewed later through the application by other users. Video and image feature has been implemented for both games and students.
- Customized plug-in was developed for sorting table fields under a specific scenario.



### Achievements

While developing this application our developer faced some critical issues like sorting the table fields under certain specific situation, online video streaming which involved a lot of brainstorming, image galleries, and generating reports based on the data available. Our developer did a splendid job in overcoming these challenges. Implementing critical business logic for generating reports was a major task which was successfully done. Even sorting of table fields were handled with the use of a customizable plug-in developed in-house by one of our developer. Thus, the product delivered was a robust one and one of its own kind available in the market.

### Technologies

Adobe Flex 3.0, ActionScript 3.0, ColdFusion 8.0, MySQL.

### Final Results Software System



Fig 1: Home Page

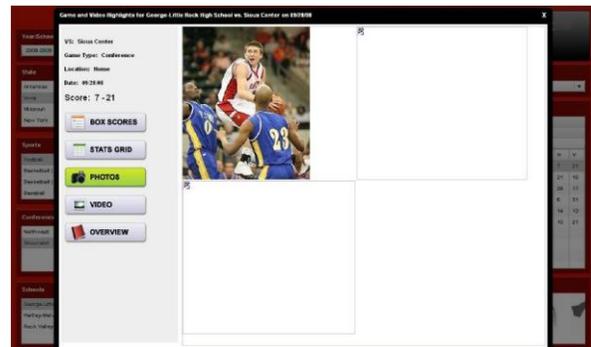


Fig 2: School Statistics

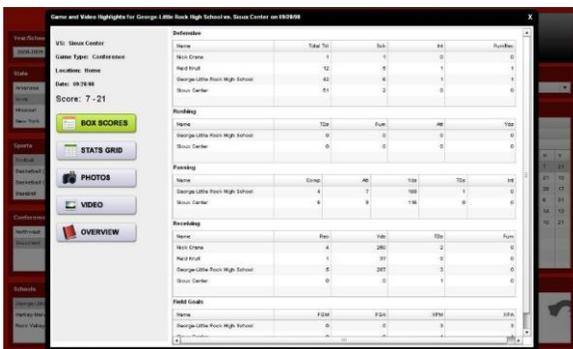


Fig 3: Match Statistics



Fig: Match Statistics



Fig 5: Student Statistics



Fig 6: Student Statistics

### Customer Benefits

The product developed, was one of its own kind in the market. The client could efficiently manage the details of all the activities held with minimal effort. The client's demand increased and as a result profit increased within a span of time, after this product was launched in the market.

### Future relationship

The client had a good experience with Mindfire Solutions. He decided to go on with Mindfire Solutions for his future projects besides handing over future enhancements to this application.

