



Tournament Management System

Executive Summary

The case study illustrates how Mindfire Solutions helped a Golf Tournament Service Provider regain confidence of its client by recreating a desktop equivalent of its existing web application which in turn resulted to be an easy and quick solution.

The requirement was to port the existing web application that displays the Golf Starting tees/times, scores in progress, scores results on TV, plasma screens and Projection Systems into a desktop windows application. Mindfire took the responsibility and started analysis of the entire web application to come up with a feasible, robust and efficient system.



About our Client

Client Service Provider for managing Golf Tournaments | **Location** USA | **Industry** Sports & Leisure

Business Situation

The Client's existing web application was a high quality display application used for displaying score board and event board using a lot of Internet Explorer transitions and other effects thereby giving a great look n feel experience for the users. In spite of this, due to its web nature, it required lot of overheads at the time of installation. As a result, the popularity diminished thus making the client desperate to look for a quick and easy solution. This made the client approach Mindfire Solutions for an end to end solution.

A team of developers from Mindfire Solutions brainstormed through the requirement documents of the client and started working on it. All the existing functionalities of the web application were analyzed and ported onto the desktop version. The end result was very much a valuable application for the client as it recovered trust and confidence of his customers.

Solution Details

The Mindfire Solution

To attain this, Mindfire Solutions analyzed the existing functionality of the web application intensively including the Internet Explorer transitions that holds a key feature and decided to build an equivalent desktop application.



- Analyzed the functionality, and design of the aspx pages for displaying score and event board.
- A class library was developed to hold all the business logics so that it can be reused by other client's product.
- The forms were designed and its functionalities were migrated.
- Some of the business logics were reused.

Web browser control was used to have the HTML pages populated during runtime. Even the HTML pages were generated at runtime based on the settings that were saved.

Player & tournament related information were displayed in columnar format, with options to include ticker messages, background graphics, two graphics panel, and descriptor fields. User can choose from three display types that are available. The graphic components enable any graphic advertisement, course or company logos, photos or any other type of graphic image(s) to be displayed.

All background images placed in a designated folder is displayed as per user-defined timer settings which, determines how long each is displayed before changing to the next.

It was almost like a small CMS system that allows the end user to edit settings for various display modes. Exclusive java script programming was also done to achieve some functionality that was there in the web version.

Achievements

The desktop application became easy to use and easy to install in any system configuration as it does not required IIS. It can be installed on any computer. For achieving the various Internet Explorer transitions, HTML pages were created at runtime with the transition, which was then rendered by the Web Browser control. Other features like dragging, dropping, resizing images were achieved using Java Script used in the HTML pages.

Through HTML and web browser control, the user got the same look n feel experience. Moreover due to its desktop nature the application's performance got faster as compared to its previous web version.

Technologies

.Net 2.0 framework, VB.Net, Java Script, HTML, MS-Access, SQL Server 2000



Final Results Software System

LeaderBoard Property

Grid Display: Show (radio button selected) Grid Transparency: 60 %

Grid Transition: Scrolling (radio button selected)

Display Team Player Names: Horizontally (radio button selected)

Speed of Transition: 2

Show Each Group Time: 10 Number of Records to Display: 5

Other Transitions (Choose One or More): Dissolve, Random Bars, Slide With Band, Stretch With Push, Swap, Fade, Slide, Stretch With Hide, Stretch With Spin, Wipe, Fade Wipe

Current Selection: Players

Adjust Appearance for Selected: Header (radio button selected)

Column Back Style: Transparent (radio button selected)

Text Color: FFFF00 BackColor: #FFFFFF

Font Name: Arial, Size: 70%, Bold (checkbox checked), Italic (checkbox unchecked), Column/Header Alignment: Left

Size: 40

Use Alternating Row Colors: Odd Row Color: #B0B0C0, Even Row Color: Silver

Column/Cell Borders: Left (checkbox checked), Right (checkbox checked), Top (checkbox checked), Bottom (checkbox checked), Border Appearance: Ridge, Size: 4, Border Color: #330000

Save Cancel

Display	Select	Edit	Caption	Header Text	Column Position
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Players	Players	2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Team Number	Team Number	1
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Starting Tee	Starting Tee	0
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Starting Time	Starting Time	3
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flight Number	Flight Number	10
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Flight Name	Flight Name	11
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Round	Round	12
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User Defined Field 1	User Defined Field 1	14
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	User Defined Field 2	User Defined Field 2	16
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Adjusted Handicap	Adjusted Handicap	13
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gross Variance From Avg	Gross Variance	15
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Net Variance From Avg	Net Variance	4
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Holes Played	Holes Played	5
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gross Score	Gross Score	6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gross Place	Gross Place	7
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Net Score	Net Score	8
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Net Place	Net Place	9
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Individual Payoff Amount	Individual Payoff Amount	17
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Team Payoff Amount	Team Payoff Amount	18
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Row Number	Row Number	19

This screen allows users to customize the look n feel of the display screen.



Display Screen



Customer Benefits

Due to it's easy to install and easy to maintain nature the client got overwhelming responses from its customer. Also the client could reduce the time spent on administrative tasks by simplifying the phases.

During a tradeshow the client quotes "*Thanks – you guys have done a fantastic job and the show presentations are going great.*"

Future relationship

- The Client has offered us the maintenance of the application.
- New features like multiple screen display, background transparency has been proposed by the client for its new version.
- Mindfire Solutions has been offered to work on the client's other major products.

