## California State University, San Bernardino

## **CSUSB ScholarWorks**

Theses Digitization Project

John M. Pfau Library

2010

## An interactive website for Disability Sports Festival based on **ASP.NET**

Yuhe Li

Follow this and additional works at: https://scholarworks.lib.csusb.edu/etd-project



Part of the Databases and Information Systems Commons

#### **Recommended Citation**

Li, Yuhe, "An interactive website for Disability Sports Festival based on ASP.NET" (2010). Theses Digitization Project. 4451.

https://scholarworks.lib.csusb.edu/etd-project/4451

This Project is brought to you for free and open access by the John M. Pfau Library at CSUSB ScholarWorks. It has been accepted for inclusion in Theses Digitization Project by an authorized administrator of CSUSB ScholarWorks. For more information, please contact scholarworks@csusb.edu.

# AN INTERACTIVE WEBSITE FOR DISABILITY SPORTS FESTIVAL BASED ON ASP.NET

A Project

Presented to the

Faculty of

California State University,

San Bernardino

In Partial Fulfillment

of the Requirements for the Degree

Master of Science

in

Computer Science

by

Yuhe Li

June 2010

## AN INTERACTIVE WEBSITE FOR DISABILITY SPORTS FESTIVAL BASED ON ASP.NET

A Project

Presented to the

Faculty of

California State University,

San Bernardino

by

Yuhe Li

June 2010

Approved by:

	6/10/2010
Dr. Haiyan Qiao, Advisor, Comparer/Science and Engineering	Date
Dr. Ernesto Gomez	
Dr. Teng Lai Yu	_

#### ABSTRACT

The Disability Sport Festival Website (DSFW) is a dynamic and extendable website used by the organizer of the Disability Sport Festival (DSF), sport participants and DSF supporters from the Inland Empire. DSFW provides sport participants and DSF supporters a user-friendly interface to view and register activities and programs or make donation to the organization throughout the year. DSFW also provides DSF administrators a secure and convenient platform for the management of a variety of activities and programs, registration and donation. DSFW is written in c# and built on the .NET framework, which provides Asp.net framework and Ajax technique to implement webpage and Ado.net framework to implement data access and communication between webpage and database. Therefore, it reduces the lines of code and builds an interactive website with high security and reliability.

In DSFW, the calendar of events displays the updated information about sports and physical activities throughout the year; online registration and form downloads are provided to the DSF participants and volunteers; slideshow of photos and video clips of disability sport festival enhance user experience from visual aspect; administrator

page makes system administration and maintenance easier and more efficient; integrating with Paypal makes the donation process more accurate, efficient and securer.

## TABLE OF CONTENTS

ABSTF	RACT		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	iii
LIST	OF TA	BLE	S .				•		•			•		•	•				•	•			х
LIST	OF FI	:GUR	ES		•		٠.					•		•	•					•		•	хi
CHAPT	rer on	1E:	INTI	RÓD	UC!	ΓIC	NC																
	Backg	jrou	nd		•								•		•	•		•					. 1
	Purpo	se						•			•		•		•	•	•	•				•	2
	Proje	ect	Scoj	рe							•		•		•		•	•			•	•	3
	Proje	ect	Lim	ita	ti	on												•			•	•	4
	Defir	niti	ons	, A	.cr	ony	yms	Ξ,	an	nd	Ak	br	e t	7ia	ati	Lor	າຣ				•		5
CHAPT	rer Tv	<b>10:</b>	AR	CHI	TE(	CTU	JRE	:															
	Proje	ect	Des	ign				•	•	• ,	٠.	•	•							•	•	•	8
	3-tie	er A	rch	ite	cti	ure	€		•		•	•					•			•			8
	ADO.N	1ET	Arcl	hit	ec:	tuı	ce					•	•			•			•	•	•		10
	Ajax	Ext	ens	ion			•										•		•	•			13
		The	\$c:	rip	tΜ	ana	age	er	Сс	nt	cro	1					•						13
		The	Upo	dat	еP	ane	el	Сс	nt	rc	1					•		•	•				14
		The	AS	P.N	EΤ	Αċ	JAX	(	Con	ıtı	o]	. Т	00	1}	cit	5			•	•			14
	Produ	ıct	Per	spe	ct.	ive	e			•	•	•	•						•				15
		Sys	tem	In	te:	rfa	ace	s			•	•		•									15
		Use	r I	nte	rf	ace	es					•	•				•	•				•	16
		Sof	twa	re	In	tei	rfa	ace	es			•	•			•	•	•	•	•			16
		Com	mun:	ica	ti	on	Ιr	ıte	erf	ā	ce							•	•				17

Memory Co	onstrain	ts	•	•		•		•	•	•	•		•		17
Site Adap	otation	Requi	ren	ien	ts				•		•	•			17
Product I	Tunction			•						•	•				18
CHAPTER THREE: DATA	ABASE DE	SIGN													
Introduction			•				•	•	•			•		•	19
Database Spec	ificatio	n.					•	•	-						20
Database	Schema	Logic	al	Мо	de	1-									
Relation	al Schem	ıa.	•	•	•	•	•	•	•	•	•	•	•	•	22
Database	Design						•		•			•	•	•	24
Applicat	ions Tab	le	•	•	•	•								•	26
Membersh	ip Table		•	•		•		•	•	•		•	•	•	27
Paths Tal	ole .			•							•			•	28
Personal	izationA	llUse	rs	Та	ıbl	.e		•		•				•	28
Personal	izationF	erUse	r S	ľab	le	<b>:</b>				-				•	29
Profile '	Table									•			•		29
Roles Tal	ble .								•				•	•	30
SchemaVe	rsions T	able						•	•				•		30
Users Ta	ble .								•	•			•		31
UsersInR	oles Tab	ole	•				•			•		•	•		31
Sport_Re	gister I	able							•	•				•	32
Voluntee	r_Regist	er Ta	ble	9									•		33

## CHAPTER FOUR: PROJECT IMPLEMENTATION

User	Interface Design
	Account Interface
	Create Account Page 35
	Login Page
	Forgot Your Password Page 37
	Change Password Page 38
	Admin Interface
	Security Management Interface 39
	Calendar Management Interface 46
	Sport Participant Register Management Interface 50
	Volunteer Register Management Interface
	Disability Sports Festival Website User Interface
	Home Page
	Login Page 59
	Create Account Page 60
	Administrator Page 63
	Form Download Page 62
	Donation Page 63
	Calendar Page6
	Activities Page 70

		Sport	: P	art	ici	par	ıt :	Reg	gis	ste	er	Ρā	age	)	•	•	•	•	71
		Volur	nte	er	Pag	е	•	•			•	•	•	•		•			75
		Volur	nte	er	Reg	ist	er	Pa	age	€			•		•		•	•	76
		Spons	or	s P	age				•		•	•			•			•	79
		Photo	os	Pag	е								•				•	•	81
		Slide	esh	OW	Pag	е	•												82
		Coach	n P	age											•				83
		Conta	act	Us	Pa	ge				•						•		•	84
AJAX	Page	Integ	gra	ted	in	to	AS	P.N	NE:	ГЕ	2aç	де				•		•	85
	Down	load <i>A</i>	ASP	.NE	тА	JΑΣ	<b>〈</b>												
	Inst	aller	an	d I	nst	all	L				•	•							85
	Sett	ing Up	p t	he	ASP	. NI	ΣT												
	AJAX	Cont	rol	То	olk	it		•	•	•		•	٠	•	•	•	•	•	85
		Modi	Еy	the	We	b.d	con	fic	3		•	•	•	•	•	•	•	•	85
CHAPTER F	IVE:	SOFTW	ARE	TE	STI	NG													
Unit	Test	ing			•							•	•	•	•	•	•		87
Syste	em Te	sting				•					•		•		•	•	•		92
Syst	em In	tegrat	tic	n T	est	ing	3	•				•		•	•		•		95
CHAPTER S	IX: M	AINTE	NAN	ICE	MAN	UA)	<u></u>												
Oper	ation	Syste	em	Ins	tal	lat	tio	n			•		•						96
	Inst	all th	he	Win	dow	s S	Ser	ve	r :	200	03		•	•		•	•		96
		Hard	war	e R	ean	ira	eme	nt					_	_	_	_	_		97

IIS 6.0 Web Server Installing	•	•	•	•	•	97
.NET 2.0 Framework Installing	•				•	97
Set Up a ASP.NET Web Site with	I:	IS			•	97
Installing Microsoft AJAX			•		•	102
Downloading and Installing MS Ajax Extensions	•				•	102
Setting Up the ASP.NET AJAX Control Toolkit		•	•		•	102
SQL Server 2005 Installation and Configuration		•	•	•	•	102
Disability Sports Festival Website Installation					•	105
SQL Data Import/Export	•		•		•	105
Deployment and Configuration			•	•	•	106
Windows Permissions	•		•	•		107
CHAPTER SEVEN: CONCLUSION	•		•	•	•	108
DEEDDENGEG						110

## LIST OF TABLES

Table	1.	Database Relational Schema 22
Table	2.	Structure of Application
Table	3.	Structure of Membership
Table	4.	Structure of Paths
Table	5.	Structure of PersonalizationAllUsers 28
Table	6.	Structure of PersonalizationPerUser 29
Table	7.	Structure of Profile
Table	8.	Structure of Roles
Table	9.	Structure of SchemaVersions
Table	10.	Structure of Users
Table	11.	Structure of UsersInRoles
Table	12.	Structure of Sport_Register
Table	13.	Structure of Volunteer_Register 33
Table	14.	Unit Testing Results 88
Table	15.	System Testing 93
Table	16.	System Integration Testing 95

## LIST OF FIGURES

Figure	1.	The Illustration of the Processes among Layers in 3-tier Architecture of
		Disability Sports Festival
Figure	2.	Connection to Database
Figure	3.	ScriptManager Control Used in Slideshow Page
Figure	4.	ASP.NET AJAX Control Toolkit Used in Slideshow Page
Figure	5.	Deployment Diagram
Figure	6.	Use Case Diagram
Figure	7.	Web Configuration Connection String to SQL Server
Figure	8.	Entity Relational Diagram
Figure	9.	Web.cfg.xml File 25
Figure	10.	Create Account Page
Figure	11.	Login Page
Figure	12.	Forgot Password Page
Figure	13.	Password Change Page
Figure	14.	Security Management Page
Figure	15.	Access Method Page
Figure	16.	Data Store Page 41
Figure	17.	Defile Role Page 42
Figure	18.	Add New Users Page 43
Figure	19.	Add Access Rule Page

Figure 2	0.	App_Data Page	15
Figure 2	1.	Administrator Login Page 4	16
Figure 2	2.	Program Calendar	17
Figure 2	3.	Agenda Page	18
Figure 2	4.	Create Event Page	19
Figure 2		Sport Participant Register Management Page	50
Figure 2	6.	Selecting Function Page	51
Figure 2	7.	Editing Page	52
Figure 2	8.	Sorting Page	53
Figure 2		Volunteer Register Management Page	54
Figure 3	0.	Selecting Function	55
Figure 3	1.	Editing Page	56
Figure 3	2.	Sorting Page	57
Figure 3	3.	Home Page	58
Figure 3	4.	Login Page	59
Figure 3	5.	Create Account Page	60
Figure 3	6.	Administrator Page	61
Figure 3	7.	Form Download Page	62
Figure 3	8.	Donation Page	63
Figure 3	9.	Donation Page 2	64
Figure 4	Ο.	Donation Page 3	65
Figure 4	1.	Calendar Page	66

Figure	42.	Calendar Page 2	•	•		•	•	•	·67
Figure	43.	Calendar Page 3		•		•	•	•	68
Figure	44.	Calendar Print Page	•		•			•	69
Figure	45.	Activities Page	•		•	•	•	•	70
Figure	46.	Sport Participant Register Page		•		•	•		71
Figure	47.	Sport Participant Register Page	2	•				•	72
Figure	48.	Sport Participant Register Page	3	•	•			•	73
Figure	49.	Sport Participant Register Page	4		•	•	•	•	74
Figure	50.	Volunteer Page	•	•				•	75
Figure	51.	Volunteer Register Page 1	•	•	•		•		76
Figure	52.	Volunteer Register Page 2	•					•	77
Figure	53.	Volunteer Register Page 3	•	•	•	•	•	•	78
Figure	54.	Sponsors Page	•	•	•			•	79
Figure	55.	Funding Form Download	•			•	•	•	80
Figure	56.	Video in Photo Page	•	•	•	•	•	•	81
Figure	57.	Slideshow Page	•	•			•	•	82
Figure	58.	Coach Page	•	•	•		•	•	83
Figure	59.	Contact Page	•			•		•	84
Figure	60.	Ajax-Enable Web.config	•	•	•	•	•	•	86
Figure	61.	Create a Virtual Directory	•				•	•	98
Figure	62.	Alias	•	•		•		•	99
Figure	63.	Path of the Directory	•	•	•				100
Figure	64.	Setting Permissions							101

Figure	65.	SQL Protection Page	103
Figure	66.	SQL Server Configuration	104
Figure	67.	Data Import and Export Page	105
Figure	68.	Copy Web Page	106
Figure	69.	Window Permission	107

#### CHAPTER ONE

#### INTRODUCTION

#### Background

The Disability Sports Festival is a non-profit organization founded at California State University, San Bernardino in 2007. Its primary purpose is to promote physical activity and sports for people with disabilities and to raise awareness of disability sports and physical activity in the Inland Empire. In the first two years of the festival, over 300 athletes, 400 volunteers and a couple hundred more family, friends, and supporters have been involved with the festival. The DSF at CSUSB also hosts a number of different activities and programs that promote physical activity for people with disabilities throughout the year. In the third year, the number of participants was nearly doubled from previous year's 220 to more than 400 in the one-day free event held in and around the University's Coussoulis Arena.

In order to serve a significant number of people and encourage them to contribute to and collaborate with the festival, there is an urgent need to create a website that is dynamic, easy to maintain and update.

#### Purpose

The current DSF website is static. It can only be updated by the webmaster or someone who is proficient in HTML or flash. Therefore, it is difficult for the program organizers to edit the contents of the website. In addition, with the growth of the DSF at Cal State San Bernardino, more and more people are involved in the event. Some of them want to support the festival, but donation online is not available at the current website. Other interactive functions such as form download, contact Page, online registration and Event calendar are all unavailable. A dynamic website is the most effective solution to interact with the participarts and visitors. Furthermore, the current website doesn't support administrative interfaces. Although a dynamic website typically costs more in the short term because of its complexity, it can be a more cost effective solution in the long run. The purpose of this project is to re-structure, redesign and rewrite the old website to serve the desired need of DSF better.

In this new version DSF website, front platform management will include user register, online registration for activities, donation and form downloading; background management will realize functions such as registration

management, event calendar management and sports

participant and volunteer information sorting, editing and

deleting. In addition to provide regular festival

information, the website also aims to provide an

Interactive calendar that is easy to update the programs

throughout the year, slideshow and video that display live

scenes of DSF.

#### Project Scope

DSF participants can view festival information and sport programs throughout the year, select the Programes and register the festival online.DSF supporters can view festival information and donate or register as volunteers.DSF organizers can maintain festival programs and activity of DSF as well as manage participants and volunteers registration information through DSF website.

There are three intended users of the DSFW: DSF participants, DSF supporters and DSF organizers. The DSF has the following functions for its users:

- Registration
- Donation
- Forms download

must comply with the CSUSB Web page accessibility standards and guidelines.

Definitions, Acronyms, and Abbreviations

The definitions, acronyms, and abbreviations used in the document are described in this section.

- DSFW: Disability Sports Festival Website
- DSF: Disability Sports Festival
- ASP.NET: ASP.NET is a web application framework developed and marketed by Microsoft to allow programmers to build dynamic web sites, web applications and web services. It was first released in January 2002 with version 1.0 of the .NET Framework, and is the successor to Microsoft's Active Server Pages (ASP) technology.
- ÁDO.NET: ADO.NET is a set of computer software components that programmers can use to access data and data services. It is a part of the base class library that is included with the Microsoft .NET Framework. It is commonly used by programmers to access and modify data stored in relational database systems, though it can also access data in non-relational sources. ADO.NET is sometimes considered an

- Interactive calendar
- Pictures slideshow
- Registration Management
- Program Management

For DSF participants, DSFW provides updated program information through interactive calendar, slideshow browsing, forms download, online registration and contact the organizers. Besides obtaining information about DSF, DSF supporters can donate online or register as volunteers. The DSF organizers have two available privileges: Manage participant and volunteer registration and maintain programs and activities through interactive calendar. Privileges are assigned to organizers depending upon their job duties. For the registration management privilege, organizer members can sort, delete and edit registration information. For programs and activities maintenance privilege, organizer members can sort, delete and edit programs and activities through the interactive calendar.

#### Project Limitation

The DSF is an official Web site that represents

California State University, San Bernardino. Therefore, it

- evolution of ActiveX Data Objects (ADO) technology, but was changed so extensively that it can be considered an entirely new product.
- SQL: often referred to as Structured Query Language,
   is a database computer language designed for
   managing data in relational database management
   systems (RDBMS), and originally based upon relational
   algebra.
- Ajax: Ajax (shorthand for asynchronous JavaScript and XML) is a group of interrelated web development techniques used on the client-side to create interactive web applications. With Ajax, web applications can retrieve data from the server asynchronously in the background without interfering with the display and behavior of the existing page.
- API: Application Program Interface is a set of routines that an application uses to request and carry out low-level services performed by a computer's operating system; also, a set of calling convention in programming that defines how a service is invoked through the application.

- CSUSB: California State University, San Bernardino.
- HTML: HyperText Markup Language is the authoring language used to create documents on the World Wide Web.
- J2EE: Java 2 Platform Enterprise Edition is a platform-independent, Java-centric environment from Sun Microsystems, Inc., for developing, building, and deploying Web-based enterprise applications online.

  The J2EE platform consists of a set of services, APIs, and protocols that provide the functionality for developing multitiered, Web-based applications.
- Paypal: Paypal is an e-commerce business allowing payments and money transfers to be made through the Internet. Paypal serves as an electronic alternative to traditional paper payment methods such as checks and money orders.
- IIS: Internet Information Services (IIS) formerly called Internet Information Server - is a web server application and set of feature extension modules created by Microsoft for use with Microsoft Windows.

#### CHAPTER TWO

#### ARCHITECTURE

#### Project Design

The New DSFW implements a client-server Web-based system. The front-end pages and business-tier are written in c#. The whole project is built on .NET Framework, although Slideshow Ajax webpage is integrated with other ASP.NET webpages. In addition, ADO.NET provides database access to web applications (ASP.NET) through data providers in this projection. IIS is used as web server.

#### 3-tier Architecture

In 3-tier architecture, the program is organized into three major disjunctive tiers on layers as following:

- Application layer or Presentation layer. Application layer is the form which provides the user interface to either programmer or end user.
- Business layer. This layer is a class which used to write the function which works as a mediator to transfer the data from Application or presentation data layer.

• Data Access Layer. This layer is a class which used to get or set the data to the database back and forth.

This layer only interacts with the database.

These three layers are response to their own obligation as well as communicated with other layer to implement functions of application.

- Application layer is the form where programmers design using the controls such as textbox, labels, command buttons etc.
- Business layer is the class where programmers write the functions which get the data from the application layer and passes data through the data access layer.
- Data layer is also the class which gets the data from the business layer and sends it to the database or gets the data from the database and sends it to the business layer.

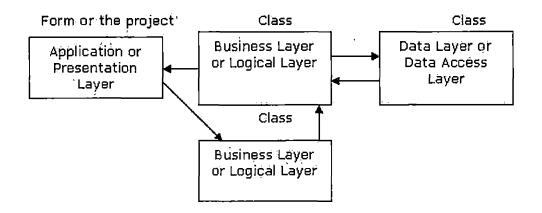


Fig.1 The Illustration of the Processes among Layers in 3-tier Architecture of Disability Sport Festival

#### ADO.NET Architecture

The DSFW project uses ADO.NET to provide communication between database and business layer through several key components.

- Application: Processes and calls that ADO.NET functions to submit SQL statements and retrieve results.
- DataSet: As in-memory cache of data which functions like a disconnected XML data cache. The DataSet provides XML and relational interfaces of the data.

- DataReader: This component provides a direct, readonly SQL interface to the backend. It is a component of the data provider.
- ADO.NET Data Provider: The provider connects an ADO.NET application to the backend data store. It comprises the Connection, Command, DataReader and DataAdapter objects and supplies connection information through the Connection object.

The following figure shows how DSFW connect to a database by using either a DataSet, a DataAdapter or a DataReader.

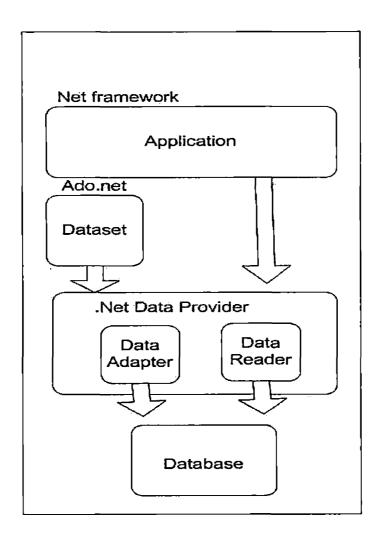


Fig.2 Connection to Database

In order to access the ADO.NET functionality, DSFW imports namespaces- System.Data.SQLClient, which includes all the functions needed to manipulate data from SQL Server.Objects include:

- SQLConnection
- SQLCommand

- SQLDataSet
- SQLDataReader
- SQLDataAdapter

#### Ajax Extension

AJAX allows web pages to be updated asynchronously by exchanging small amounts of data with the server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page. In order to improve user's experience of getting the information that they needed, AJAX Extension is imported to implement Slidshow function in DSFW project. With the two controls provided by ASP.NET AJAX Framework and AJAX Control Toolkit supporting, DSFW implements Slidshow by extending abstract controller class and using AJAX Control Toolkit instead of directly writing the controller interfaces.

### The ScriptManager Control

This is a non-visual control for managing client scripts in AJAX pages. Including the ScriptManager control automatically adds the Type Extensions required by client scripts in order to use the library.

```
<asp:ScriptManager ID="ScriptManager1" runat="server" />
<br />
 <h2 style="text-align: center"></h2>
 <div style="text-align: center">
 <script runat="Server" type="text/C#">
  [System.Web.Services.WebMethod]
  [System.Web.Script.Services.ScriptMethcd]
 public static AjaxControlToolkit.Slide[] GetSlides()
     AjaxControlToolkit.Slide[] slides = new AjaxControlToolkit.Slide[5];
      slides[0] = new AjaxControlToolkit.Slide("images/Blue hills.jpg", "B)
      slides(1) = new AjaxControlToolkit.Slide("images/Sunset.jpg", "Sunset
      slides[2] = new AjaxControlToolkit.Slide("images/Winter.jpg", "Winte:
      slides[3] = new AjaxControlToolkit.Slide("images/Water lilies.jpg", '
      slides[4] = new AjaxControlToolkit.Slide("images/VerticalPicture.jpg")
     return(slides);
                                                              Of Line version
```

Fig.3 ScriptManager Control Used in Slideshow Page

#### The UpdatePanel Control

The ScriptManager can be included with the UpdatePanel control to perform partial-page updates without the need for JavaScript Ajax calls. Whether or not a page participates in partial-page updates is determined by the EnablePartialRendering property of the ScriptManager control.

### The ASP.NET AJAX Control Toolkit

The ASP.NET AJAX Control Toolkit is a project for creating ASP.NET AJAX controls. Built on top of the Microsoft ASP.NET AJAX Framework, the Control Toolkit gives

you a great selection of controls and also gives you the ability to build your own controls from scratch.

```
poript runat="Server" type="text/C4">
ystem.Web.Services.WebMathod]
ystem.Web.Script.Services.ScriptMethod]
blic static AjaxControlToolkit.Slide[] GetSlides()

AjaxControlToolkit.Slide[] slides = new AjaxControlToolkit.Slide[5];

slides[0] = new;AjaxControlToolkit.Slide("images/Blue hills.jpg", "Blue Hills", slides[1] = new AjaxControlToolkit.Slide("images/Sunset.jpg", "Sunset", "Settin slides[2] = new AjaxControlToolkit.Slide("images/Winter.jpg", "Winter", "Winter slides[3] = new AjaxControlToolkit.Slide("images/Water lilies.jpg", "Water lilies.slides[4] = new AjaxControlToolkit.Slide("images/Water lilies.jpg", "Sedona" return(slides);
```

Fig. 4 ASP.NET AJAX Control Toolkit Used in Slideshow Page

#### Product Perspective

The DSFW is currently being used by Disability Sports

Festival Office to propagate Disability Sport Activity and

manage the information. A performance improvement along with

new website, made it more user-friendly, productive and

stable.

#### System Interfaces

The DSFW is currently being used by Disability Sports
Festival Office to propagate Disability Sports Activity and
manage the information. A performance improvement along
with new website, made it more user-friendly, productive,
and stable.

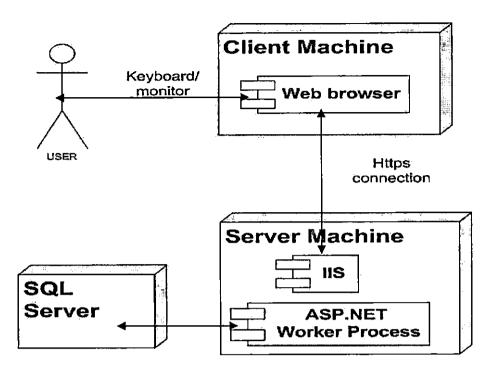


Fig. 5 Deployment Diagram

## User Interfaces

The DSFW categorizes users into three major types: participant, supporter or administrator. All user interfaces, except participant and supporter, include a login interface page.

#### Software Interfaces

The project software interface is viewed over the web.Asp.net which supports the most popular browsers:

- IE 6.0, IE 7.0, IE 8.0
- Firefox 1.0.5+
- Mozilla 1.7.1+

- Netscape 7.1+
- Opera 7.52+
- Safari or Firefox on Mac OS

The language and applications use to develop the project are Asp.net, Ado.net, c#, Ajax and CSS. IIS is the server on which the operating system is running.

#### Communication Interface

The DSFW uses .NET framework and the operating system to manage communication between the client and the server.

The Ado.net framework handles the communication between the SQL database and business lever through Data Access Layer.

Memory Constraints

The minimum memory requirement for running the DSFW server is 325 MB. For the client machine, at least 256 MB is desired.

#### Site Adaptation Requirements

The DSFW does not have any specific site adaptation requirements but at least  $1024 \times 768$  screen resolution is prefered.

## Product Function

The following Figure 6. Show the users of the DSFW: system administrator, Sports participant, and the supporter of sports festival (volunteer, donator, others).

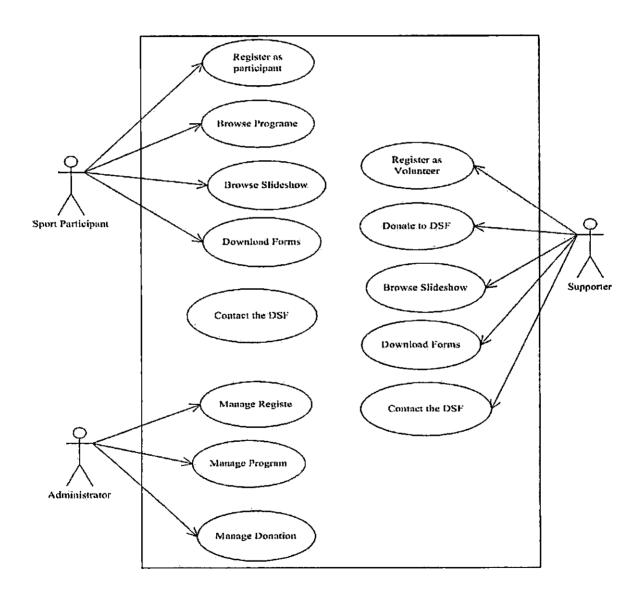


Fig. 6 Use Case Diagram

#### CHAPTER THREE

#### DATABASE DESIGN

#### Introduction

DSFW implements the database solution through Ado.net framework.

Ado.net provides the bridge between databases, which is SQL, and Asp.net application by using either a DataSet, a DataAdapter or a DataReader, rather than write and maintain an abundant of code to store and retrieve the data. Hence, the .Net framework assigns special namespace, System.Data.SqlClient, to SQL Server as data provider. System.Data.SqlClient uses objection of SQLConnection to connect with SQL database.

```
\Windows\Microsoft.Nat\Framework\v2.x\Config
|<configuration>
  <appSettings/>
| <connectionStrings>
  <add name="aspnetdbConnectionString" connectionString="Data Source=YHLI-PC\SQL|</pre>
       Initial Catalog=aspnetdb; User ID=sa; Password=0000000"
   providerName="System.Data.5qlClient" />
  <add name="aspnetdbConnectionString2" connectionString="Data</pre>
       Source=YHLI-PC\SQLEXFRESS; Initial Catalog=aspnetdb; User ID=sa"
   providerName="System.Data.SqlClient" />
- </connectionStrings>
| <svstem.web>
    <!--
            Set compilation debug="true" to insert debugging
            symbols into the compiled page. Because this
            affects performance, set this value to true only
            during development.
    <compilation debug="true"/>
                                                                   160 (25/2) 2 32/4/4
    <!--
```

Fig. 7 Web Configuration Connection String to SQL Sever

#### Database Specification

DSFW includes two major categories of relational schema. One is the relational schema for accounter management system, the other is the relational schema provided for administrator to manage the registers information of volunteers and Sports participants.

The Entity Relational (ER) diagram for the DSFW is shown in Figure 8.

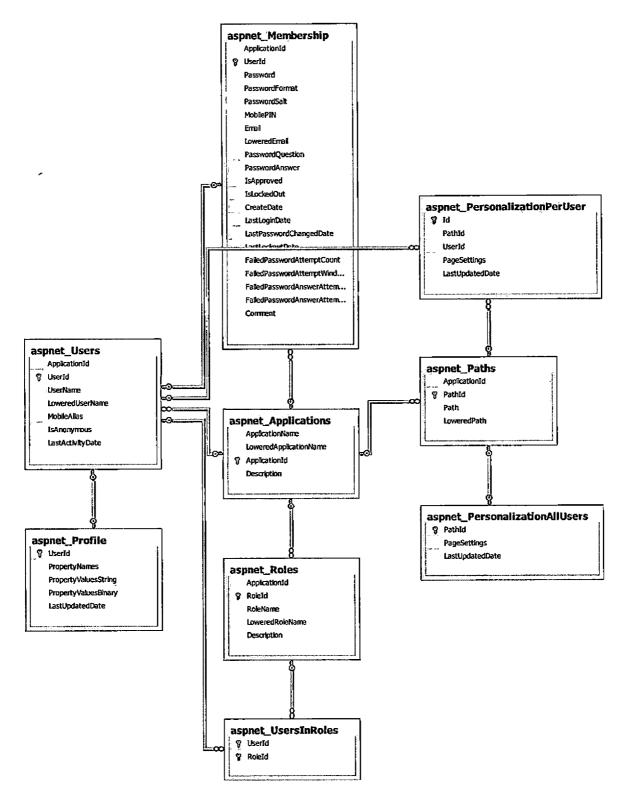


Fig.8 Entity Relational Diagram

#### Database Schema Logical Model - Relational Schema

The database relational schema is shown in Table 1.

The primary key for each table is underlined.

Each cell in all the tables contains only one entry for each row, so the tables are already in 1NF form. There were no partial functional dependencies, so the tables are already in 2NF. There is no transitive dependency that involves the non-prime attributes of tables. Thus tables are in 3NF.

Table 1. Database Relational Schema

Applications

	<del>-</del>		
Application	Lowered	Application	Description
<u>Id</u>	Application	Name	l
	Name		, i

#### Membership

Application Id	<u>UserId</u>	Password	Password Format
MobilePIN	Email	LoweredEmail	Password Question
IsApproved	IsLockedOut	CreateDate	LastLogin Date
LastPassword ChangedDa	PasswordSalt	PasswordAnswer	
LastLock outDate	FailedPassword AttemptCount	Comment	

#### Paths

Application	PathId	Path	Lowered
Id			Path

#### PersonalizationAllUsers

T-12-7-3	D = O = 4 4 2	T 1. TT 3 - 1 3 TX - 4 -	
PathId	PageSettings	LastUpdatedDate	
1 4 4 4 4 4	- 4900000-1.90		

PersonalizationPerUser

<u>Id</u>	PathId	UserId	PageSetting	Last
			S	Updated
				Date

## Profile

User	Property	PropertyValues	PropertyValues	Last
<u>Id</u>	Names	String	Binary	UpdatedDat
				е

#### Roles

Application	RoleId	RoleName	Lowered	Description
Id			RoleName	

#### SchemaVersions

<u>Feature</u>	Compatible	IsCurrentVersion	
	SchemaVersion		

#### Users

Application Id	UserId	UserName	LoweredUse rName	MobileAli as
IsAnonymous				

#### UsersInRoles

UserId	RoleId		

#### Sport Register

ID	[First Name]	[Last Name]	Age	Gender
Birthdate	Address	City	State	Zip
Phone Number	Email	Tshirt	Sports	DisAbility
Oth_Disa	Disa_Reason	Seizure	Sei_Reason	Ename
Ephone				

# Volunteer Register

ID	[First Name]	[Last Name]	Address	City
State	Zip	Phone	[Alternate	Doctor
			Phone]	
DPhone	Parent	Mname	Mphone	Fname
Fphone	Relative	Relation	Rphone	Aller
				gies
Tshot	Ainformation	Agree	Permission	

23

#### Database Design

In the DSFW, Asp.net configuration creates tables for administration system account through the Web Site Administration Tool. Other tables including the sports participants and volunteers registers are designed according to the forms provided by DSF committee. As mentioned earlier, the DSFW uses Ado.net framework to handle connections between data and its application. Therefore, .net framework provides

System.Web.XmlSiteMapProvider to establish the communication between account admin database and account admin application in the Web.config file. Table 3.is XML configuration file

```
<appSettings/>
| <connectionStrings>
     <clear/>
     <add name="LocalSQLServer" connectionString="Server=YHLI-PC\SQLEXPRESS;</pre>
          Database=aspnetdb; Trusted Connection=Yes; "/>
 - </connectionStrings>
 ] <system.web>
     <siteMap defaultProvider="default">
       <clear/>
         <add name="default" type="System.Web.XmlSiteMapFrovider"</pre>
               siteMapFile="web.sitemap" securityTrimmingEnabled="true"/>
       </providers>
     </siteMap>
 1
   <!--
             Set compilation debug="true" to insert debugging
              symbols into the compiled page. Because this
              affects performance, set this value to true only
             during development.
         -->
   <authorization>
1
       <allow roles="admin"/>
     </authorization>
                                                                   40 1年27日期
     <roleManager enabled="true"/>
```

Fig. 9 Web.cfg.xml File

# Applications Table

Table 2. Structure of Application

Table - dbo.aspnet_Applications*				
	Column Name	Data Type	Allow Nulls	
_	ApplicationName	nvarchar (256)	<b>F</b> C. 1	
.w	LoweredApplicationName	nvarchar(256)	in the second se	
¥	ApplicationId	uniqueidentifier	E C	
	Description	nvarchar (256)		
Þ			· Maria	

# Membership Table

Table 3. Structure of Membership

Column Name	Data Type.	Allow Nulls
ApplicationId	uniqueidentifier	[F]
UserId	uniqueidentifier	
Password	nvarchar(128)	
PasswordFormat	int	
PasswordSalt	nvarchar(128)	
MobilePIN	nvarchar(16)	<b>7</b>
Email	nvarchar(256)	Z
LoweredEmail	nvarchar(256)	<b>3</b>
PasswordQuestion	nvarchar(256)	Z
PasswordAnswer	nvarchar (128)	<b>3</b>
IsApproved	þit	
IsLockedOut	bit	
CreateDate	datetime	
LastLoginDate	datetime	
LastPasswordChanged	. datetime	
LastLockoutDate	datetime	
FailedPasswordAttemp	. int	हिन्दर
FailedPasswordAttemp	. datetime	F-3
FailedPasswordAnswe	int	
FailedPasswordAnswe	datetime	
Comment	ntext	

## Paths Table

Table 4. Structure of Paths

Table - dbo.aspnet_Pat	hs	
Column Name	Data Type	Allow Nulls
▶ ApplicationId	uniqueidentifier	
ទូ PathId	uniqueidentifier	
Path	nvarchar(256)	
LoweredPath	nvarchar (256)	To the second
		<u></u>

# PersonalizationAllUsers Table

Table 5. Structure of PersonalizationAllUsers

Table - dbo.aspnetnalizationAllUsers			
Column Name	Data Type	Allow Nulls	
▶ <b>8</b> PathId	uniqueidentifier	[FT]	
PageSettings	image	17.74	
LastUpdatedDate	datetime		
• • •			

# PersonalizationPerUser Table

Table 6. Structure of PersonalizationPerUser

Table - dbo.aspneon	alizationPerUser	
Column Name	Data Type	Allow Nulls
₽ Id	uniqueidentifier	<u></u>
PathId	uniqueidentifier	<b>7</b>
UserId	uniqueidentifier	<b>3</b>
PageSettings	image	
LastUpdatedDate	datetime	E

## Profile Table

Table 7. Structure of Profile

Column Name	Data Type	Allow Nulls
-ÚšerId	uniqueidentifier	
PropertyNames	ntext	
PropertyValuesString	ńtext	
PropertyValuesBinary	lmage	<u>[7]</u>
LastUpdatedDate	datetime	

# Roles Table

Table 8. Structure of Roles

Table - dbo.aspnet_Rol	les	
Column Name	Data Type	Allow Nulls
▶ ApplicationId	uniqueidentifier	
🕆 RoleId	uniqueidentifier	[ T
RoleName	nvarchar (256)	
LoweredRoleName	nvarchar(256)	
Description	nvarchar(256)	<b>Ø</b>

# SchemaVersions Table

Table 9. Structure of SchemaVersions

T	able - dbo.aspnet_Sche		
	Column Name	Data Type	, Allow Nulls ,
₽Ŗ	Feature.	nýarchař (128)	
8	CompatibleSchemaVer	nvarchar(128)	
and a second	IsCurrent/Version	bit	

## Users Table

Table 10. Structure of Users

Table - dbo.aspnet_Users		
Column Name	Data Type	Allow Nulls
▶. ApplicationId	uniqueidentifier	
ਊ UserId	uniqueidentifier	
UserName	nvarchar(256)	
LoweredUserName	nvarchar(256)	
MobileAlias	nvarchar(16)	<b>₩</b>
IsAnonymous	bit	[
LastActivityDate	datetime	[22.8
		er are Elend

# UsersInRoles Table

Table 11. Structure of UsersInRoles

7	able - dbo.aspnet_Roles		
	Column Name	Data Type	Allow Nulls
<b>•</b>	ApplicationId	uniqueidentifier	
B	RoleId	uniqueidentifier	
	RoleName	nvarchar(256)	
Gunnings mails	LoweredRoleName	nvarchar (256)	
	Description	nvarchar(256)	

# Sport Register Table

Table 12. Structure of Sport\_Register

Table - dbo.Sport_Register			
Column Name	Data Type	Allow Nulls	
▶ <b>®</b> ID	· int		
[First Name]	nvarchar (50)		
[Last Name]	nvarchar(50)	[m.2]	
Age	nvarchar(50)	<b>(2)</b>	
Gender	nvarchar (50)		
Birthdate	smalldatetime	E	
Address	nvarchar(50)		
City	nvarchar(50)		
State	nvarchar (50)		
Zip	int		
PhoneNumber	varchar(50)		
Email	nvarchar(50)	1777	
Tshirt	nchar(10)	<b>S</b>	
Sports	text	<b>W</b>	
DisAbility	text	<b>.</b>	
Oth_Disa	nvarchar(50)		
Disa_Reason	text		
Seizure	nchar(10)		
Sei_Reason	text	<b>y</b>	
Ename	nvarchar (50)	<b>⊘</b>	
Ephone	varchar(50)		

# Volunteer Register Table

Table 13. Structure of Volunteer\_Register

Table - dbo.Volunteer_Register			
Column Name	Data Type	Allow Nulls	
▶₹, ID	int		
[First Name]	nvarchar(50)	Factory .	
[Last Name]	nvarchar(50)		
Address	nvarchar(50)		
City	nvarchar(50)	Amotory &	
State	nvarchar(50)	The state of the s	
Zip	int		
Phone	nvarchar(50)	<b></b>	
[Alternate Phone]	nvarchar (50)	$\overline{\mathbf{y}}$	
Doctor	nvarchar (50)	<b>2</b>	
DPhone	nvarchar(50)	₩.	
Parent	nvarchar (50)	<b>▼</b>	
Mname	nvarchar(50)	$\overline{\boldsymbol{\mathcal{Q}}}$	
Mphone	nvarchar(50)		
Fname	nvarchar(50)	$\overline{\mathcal{O}}$	
Fphone	nvarchar(50)	V	
Relative	nvarchar(50)	$\overline{\mathcal{Q}}$	
Relation	nvarchar (50)	<b>₹</b>	
Rphone	nvarchar(50)	₹	
Allergies	nvarchar(MAX)	lacksquare	
Tshot	nvarchar(50)		
Ainformation	text	<b>2</b>	
Agree	nchar(10)		
Permission	nvarchar(MAX)	Karene Bergat 1899	

#### CHAPTER FOUR

#### PROJECT IMPLEMENTATION

#### User Interface Design

The DSFW is a pure Web-based application programmed with Asp.net.

Asp.net supports the most popular browsers: Internet Explorer 6, Firefox, Google Chrome, etc. Therefore the user interfaces of DSFW support most popular web browsers and can be accessed by all kinds of users. All interfaces are generated dynamically on the server side and can fully or partially update the client pages, giving a good users experience of surfing on the webside.

## Account Interface

Create Account Page. This page is designed to create an account for a user who is interested in DSF but doesn't have an account yet. The username has to be unique and there is no length limit. The E-mail felid has to be a valid e-mail address (Figure 10).

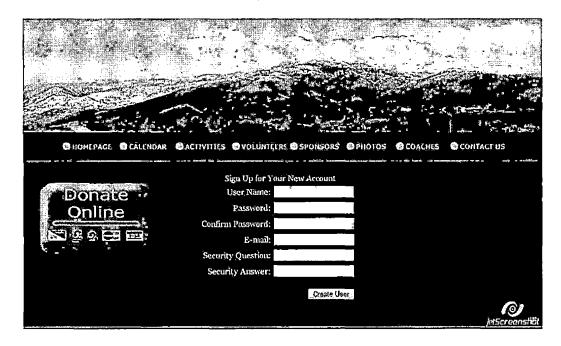


Fig. 10 Create Account Page

Login Page. This page provides both administrator and user logins. Whether it is of a user or administrator depends on the role assigned to different users by super administrator who has the security management power (Figure 11).

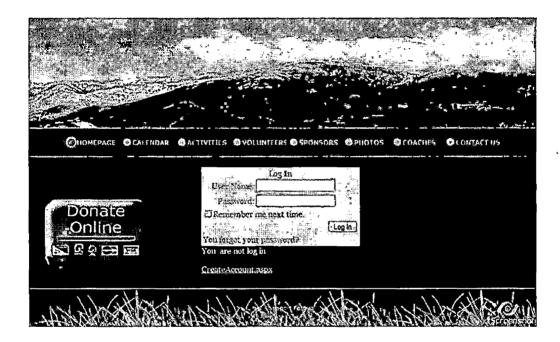


Fig.11 Login Page

Forgot Your Password Page. If users forget their passwords, by providing user ID in this page and they will retrieve their password through the email automatically send by the system (Figure 12).



Fig.12 Forgot Password Page

Change Password Page. In this page users can change their passwords after they successfully login (Figure 13).

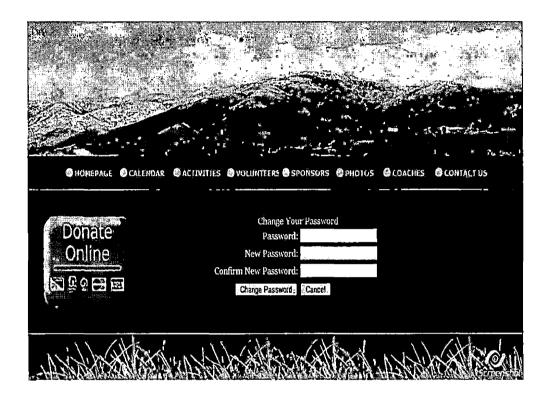


Fig.13 Password Change Page

#### Admin Interface

Security Management Interface. The .net framework has provided Web Site Administration Tool in Asp.net configuration to manage all the security settings for DSFW application. From setting up users and passwords (authentication), creating roles (groups of users), to creating permissions (rules for controlling access to parts of your application), all that administrator need to do is to follow the steps designed to speed up their jobs (Figure 14).

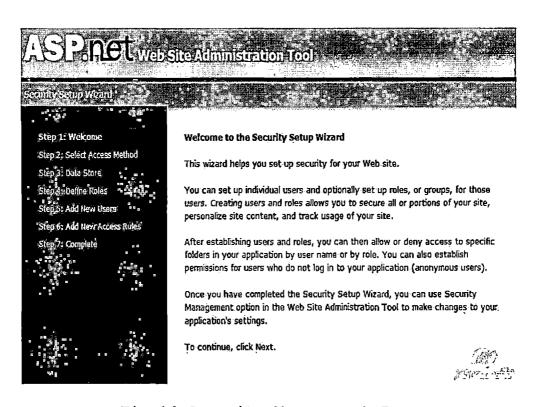


Fig.14 Security Management Page

- Step 1: Welcome
- Step 2: Select Access Method.DSFW is a public site available to anyone on the Internet, therefore the selection of access method is "from the internet".

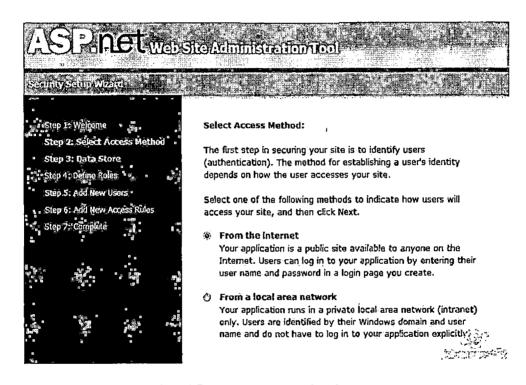


Fig.15 Access Method Page

• Step 3: Data Store.DSFW configure to use advanced provider settings and the admin data stores in tables of the aspnetdb database in SQL.

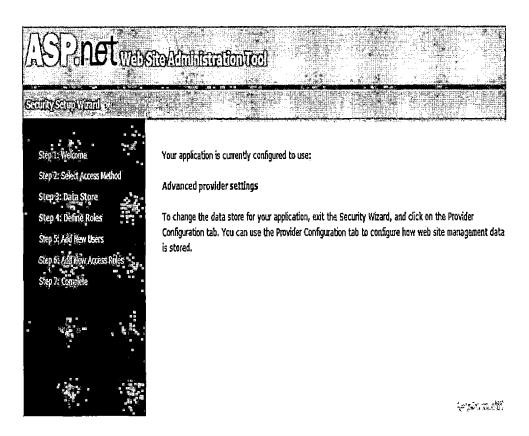


Fig.16 Data Store Page

• Step 4: Defile Role. There are only two kinds of roles in the DSFW. One is administrator, the other is user. The privilege of this administration tool provides role management to administrators. Hence administrator can create the roles each with different access to special folders. In DSFW, an administrator has privileges to access the folder of admin containing manage pages.

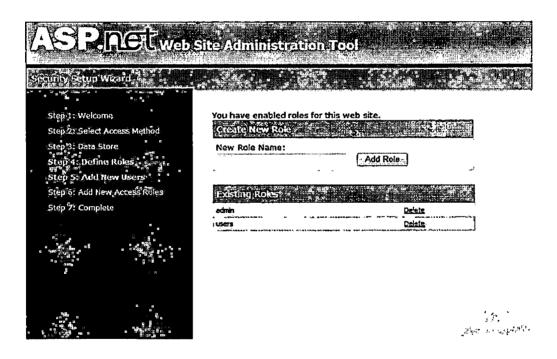


Fig.17 Defile Role Page

• Step 5: Add New Users.Add a user by entering the user's ID, password, and e-mail on this page. You can also specify a question with an answer that the user must give when resetting a password or requesting a forgotten password.

ASP.netwebs	ite Administration Tool
Step 1: Welcome. Step 2: Select Access Method Step 3: Deta Store Step 4: Define Roles Step 5: Add New Access Miles Step 6: Add New Access Miles Step 7: Complete	Add a user by entering the user's ID, password, and e-mail on this page. You can also specify a question with an answer that the user must give when resetting a password or requesting a forgotten password.  Sign Up for Your New Account User Name: Password: Confirm Password: E-mail:
General Management	Security Question:  Security Answer:  Create User

Fig.18 Add New Users Page

• Step 6: Add New Access Rules. Administrator can optionally add access rules to control access to the whole Web site or to individual folders. DSFW give users the permission to access all parts of the website except the folder of Administration.

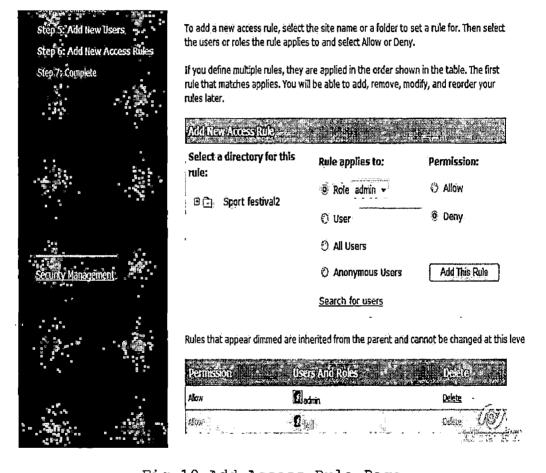


Fig 19 Add Access Rule Page

In order to prevent all users except administrator in accessing the fold of Admin, it needs to add the web configuration xml file in App\_Data (Figure 20).

Fig.20 App\_Data Page

# Calendar Management Interface.

• Login Page.Administrator use the account created for DSFW calendar admin to login.

	te your schedule and share events with friends is the online calendar, it's easy to keep track of life's important events all in one place.	Sign in to Google Calendar with your
	,	Google Account
ïO,	Share your schedule Let your family and hiends see your calendar, and view schedules that others have shared with you.	Email
-		Password:
	Get your calender on the go Access your calendar from your phone using its built-in calender or mobile browser.	Stay signed in
څه	University of the second second	
	Never forget another event Get event reminders via email or have text messages sent right to your mobile phone.	Cant access your account?
	Learn more about Google Calendar a	
		New to Google Calendar? It's easy to start.
		College College

Fig.21 Administrator Login Page

• Calendar Management Page. In this page,

administrator can add, edit and delete the

programs of DSF through the whole year. In

addition, the program can be specific to the day,

week or month. (Figure 22)

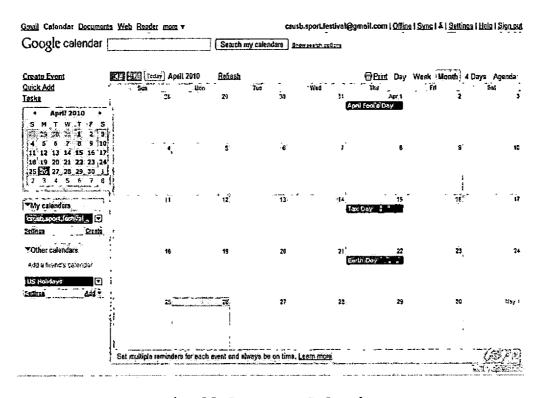


Fig.22 Program Calendar

• Agenda. The programs also can be search out in agenda page (Figure 23).

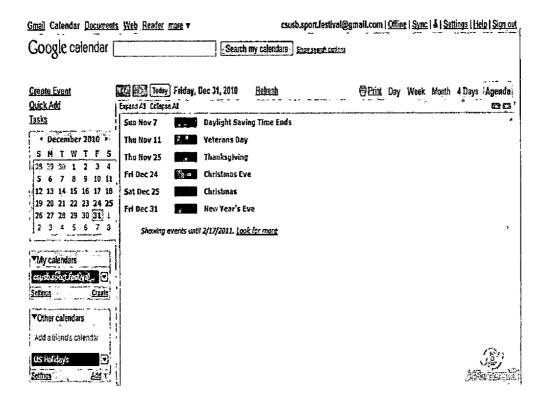


Fig.23 Agenda Page

 Create Event Page.Administrator can create a program event of DSF with necessary information, such as what, when and where about event.

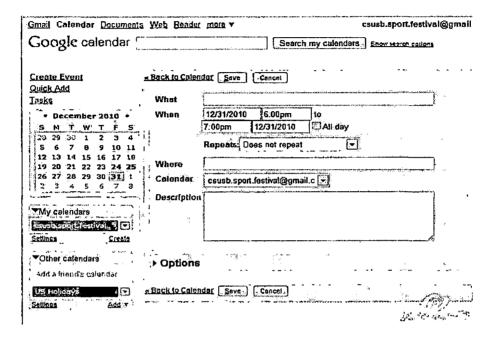


Fig.24 Create Event Page

### Sport Participant Register Management Interface.

• Sport Participant Register Management Page. This page displays all the information retrieved from participant register table store in SQL. The administrator can manipulate the information by selecting, editing, deleting and sorting.

First Nam	e Last_Nam	e Age	Gender	PhoneNumber	Zip	State	City	Address	Birthdate	<u>Email</u>
Edit Delete hgjh	Jery	76	Male	(765) 987- 0987	87654	hj	hfjkdsal	hdhfajkls	01/01/1900	hjjkk@124.co
<u>Edit Delete</u> hdjk	jkk	23	Female	(987) 765- 0987	78899	cs	fhasjf;a	fjlajflds	07/23/2009	nfdkl@123.do
Edit Delete jkkik	ki	87	Male	(876) 987- 7654	987	hhhhh	jijjklikl	hfoisalı	12/09/1998	hjkj@tgbgh.co
Edit Delete yu	kj	98	Female	(987) 123- 0987	98765	yui	hjkk	hjj@123.com	12/23/2008	hjkn@124.cor
Edit Delete hgjh	Mary	76	Male	(765) 987- 0987	87654	hj	hfjkdsal	hdhfajkls	.01/01/1900	hjjkk@124.co
<u>Edit Delete</u> Kala	Tee	76	Male	(765) 987- 0987	87654	hj	hfjkdsal	hdhfajkls	01/01/1900	hjjkk@124.co
Edit Delete Kala	Tee	76	Male	(765) 987- 0987	8 <b>765</b> 4	ħj	hfjkdsal	hdhfajkls		hjjkk (2124.co:

Fig. 25 Sport Participant Register Management Page

Selecting Function. It is easy for administrator
to follow the row of information which has been
selected and checked since it is a long row of
information in this page.

	First_Nam	Last Name	Age	Gender	PhoneNumber	Zin,	State	City	Address	Birthdate	Ë
Edit Delete Select	hgjh	Jery	15	Male	(765) 987- 0987	87654	hj	hfjkdsal	hdhfajkls	01/01/1900 h	jjkk@
Edit Delete Scleet	พบงบ	Тее	21	Male	(765) 987- 0987	87654	hj	hfjkdsal	hdhfajkls	01/01/1900 h	jjkk@
Edit Delete Select	Gajk	jkk Seminit	23	Female	(987) 765- 0987	-: 78899	CS.	inasji;a	thaltiqs.	07/23/2009 i	idiki(
Edit Delete Select	yu	kj	29	Female	(987) 123- 0987	987,65	yui	hjkk	hjj@123.com	12/23/2008 h	jkn@
Edit Delete Select	Kala	Tee	32	Male	(765) 987- 0987	87654	ħj	hfjkdsal	hdhfajkls	01/01/1900 h	jjkk@
Edit Delete Select	jkklk	ki	35	Male	(876) 987- 7654	987	հեհեհ	jijjklikl	hfoisah	12/09/1998 h	jkj@1
Edit Delete Seleci	Kala	Tee	49	Male	(765) 987 <b>-</b> 0987	87634	hj	hfjkdsal	hdhfajkls	01/01/1965 H	jjkk@ SÆ

Fig.26 Selecting Function Page

- Deleting Function.Click the delete hyperlink of the row and it will be deleted.
- Editing Function.Click the edit hyperlink of the row in which administrator want to edit and change the information as desired, but be careful about the format requirement per column, otherwise the database will reject the change if the format is not correct.

<u>Email</u>	Tshirt Event Categorie		Disability	Oth Disa	Disa_Reason	
hjjkk@124.com	L g	Goal Ball	Intellectual Disability (i.e. Down Syndrome)	Other Medical Conditions:	uvioik	
hjkn@124.com	YL	Goal Ball	Autism	Other Medical Conditions:	jiklik	
hjkj@tghgh.com	S	Goal Ball	Traumatic Brain Injury	Other Medical Conditions:	jhjhkjiklik	
<b>3</b> (4)						
nfdkl@123.dok	M	Goal Ball		Other Medical Conditions:		
hjjkk@124.com	L	Goal Báil	Intellectual Disability (i.e. Down Syndrome)	Other Medical Conditions:	uyioik	
hijikk@124.com	L	Goal Ball	Intellectual Disability (i.e. Down Syndrome)	Other Medical Conditions:	uyioik	
hjjkk@124.com	L	Goal Hall	Intellectual Disability (i.e. Down Syndrome)	Other Medical Conditions:	uyloik	
hjjkk@124.com	L	Goal Ball	Intellectual Disability (i.e. Down Syndrome)	Other Medical Conditions:	uyioik	

Fig.27 Editing Page

• Sorting Function. Click the head of each column, the information of the whole table will be sorted in the order of that column. For example, click "Age" and the information in the whole table will been sorted in the order of age.

First_Nau	oe Last_Name	. Ag	Gender	PhoneNumber	Zip	State	City	Address	Birthdate	Ē
Edit Delete Select hgjh	Jery	15	Male	(765) 987- 0987	87654 1	hj:	hfjkdsal	hdhfajkls	01/01/1900 hj	jkk@
<u> Edit Delete Select</u> wuwu	Tee	21	Male	(765) 987- 0987	\$7654 l	bj	hfjkdsal	hdhfajkls	01/01/1900 โฏ่	jkk@
Edit Delete Select bdjk	jkk	23	Female	(987) 765- 0987	78899	C\$	fhasjí;a	fjlajflds	07/23/2009 ni	dkl@
Edit Delete Select yu	kj į	29	Female	( <b>987</b> ) 123- 0987	98765	yui	hjkk	hjj@123.com	12/23/2008 hj	kn@!
Edit Delete Select Kala	Tee	32	Male	(765) 987- 0987	87654 ]	hj ,	hfjkdsal	hdhfajkls	01/01/1900 hj	jkk@
Edit Delete Select jkklk	ki	35	Malc	(876) 98 <b>7-</b> 7654		hhhbh	jijjkliki	hfoisah	12/09/1998 hj	kj@tį
Edit Delete Select Kala	Tot	49	Male	(765) 987- 0987	876541	hj	hfjkdsal	hdhfajkls	01/01/19@hj	jkk@

Fig.28 Sorting Page

## Volunteer Register Management Interface.

Volunteer Register Management Page. This page
displays all the information retrieved from
Volunteer register table store in SQL. The
administrator can manipulate the information by
selecting, editing, deleting and sorting.

First Nan	ie Last Name	Address City	<u>DPhon</u>	e <u>Doctor</u> Alternate Phon	e Phone 7	Zip State	Parent
Edit Delete Select yaya	keek	786 hekjalnm; Riversi	(876) de 876- 9876	glksdjf (213) 765-9876	(921) 987- 9. 8765	2509 ca	hfsagioregr l
Edit Delete Select yiyi	keek	786 hekjalam; Riversi	(876) de 876- 9876	glksdjf (213) 765-9876	(921) 987- 92 8765	2509 ca	hfsagioregr i
Edit Delete Select hehe	keek	786 hekjalnm: Riversi	(876) de 876- 9876	glksdjf (213) 765-9876	(921) 987- 92 8765	2509 ca	hfsagioregr i
Edit Delete Select gege	keek	786 hekjalnm; Riversi	(876) de 876- 9876	glksdjf (213) 765-9876	(921) 987- 92 8765	2509 ca	hfsagioregr¦
Edit Delete Select qiqi	keek	786 hekjalam; Riversi	(876) de 876- 9876	glksðjf (213) 765-9876	(921) 987- 99 8765	2509 ca	hfsagioregr!
Edit Delete Select xixi	keek	786 hekjalnm; Riversi	(876) de 876- 9876	glksdjf (213) 765-9876	(921) 987- 93 8765	2509 ca	hfsagioregr :
Edit Delete Select gogo	keek'	786 hekjalnm; Riversi	(876) de 876- 9876	glksdjf (213) 765-9876	(921) 987- 93 8765	2509 ça	hfvegjoregr!

Fig.29 Volunteer Register Management Page

Selecting Function. It is easy for administrator
to follow the row of information which has been
selected and checking since it is a long row of
information in this page.

	First	Name Låst Name	Address	City	DPhone	Doctor	Alternate Phon	e Phone	Zip	Stafe	<u>Parent</u>	Muame
Select	yaya	keek	786 hekjalnn;	Riverside	(876) 876- 9876	glksdjf	(213) 765-9876	(921) 987- 8765	92509	ca ·	hfsagioregr,	hfdks
Select	yiyi	keek	786 hekjalnm;	Riverside	(876) 876- 9876	glksdjf	(213) 765-9876	(921) 987- 8765	92509	ca	hfsagioregr	lifdks
Select	héhe	kéék	786 hekjalow;	Riverside	(676) 8763 9876	ġlksdj(	(213) 765-95 <u>7</u> 6	(921) 987- 98765;	92509	ca	hisagioregi	hidks
Select	gege		786 hekjalnm;	Riverside	(876) 876- 9876	glksdjf	(213) 765-9876	(921) 987- 8765	92509	ça	hfsagioregr	hfdks
Select	qiqi	keek	786 hekjalnm;	Riverside	(876) 876- 9876	glksdjf	(213) 765-9876	(921) 987- 8765	92509	ca 👝	hfsägioregr	hfdks
Sclect	xixi-	keek	786 hekjalnm;	Riverside	(876) 876- 9876	glksdjf	(213) 765-9876	(921) 987- 8765	92509	ca	hfsagioregr	hfdks
Select	qoqo	keek	786 hekjalnm;	Riverside	(876) 876- 9876	glksdjf	(213) 765-9876	(921) 987- 8765	92509	CB	hfsagiorege	eidks

Fig. 30 Selecting Function

- Deleting Function.Click the delete hyperlink of the row and it will be deleted.
- Editing Function.Click the edit hyperlink of the row in which administrator want to edit and change the information as desired, but be careful about the format requirement per column, otherwise the database will reject the change if the format is not correct.

<u>First Name</u>	- Last Name	<u>A'ddress</u>	: City	DPhone	1
Edit Delete Select gege	keek	786 hekjalnin;	Riverside	(876) 876-9876	elksdjf
Edit Delete Select hehe	keek	786 hekjalnm;	Riverside	(876) 876-9876	glksdjf
Edit Delete Select HI	Ж	J	<b>ЈНЈК</b>		
Edit Delete Select hoho	keck	786 hekjalnm;	Riverside	(876) 876-9876	glksdjf
Update Cancel lala	keek	786 bekjalnm,	Riverside	(876) 876-9876	giksdji
Edit Delete Select momo	keek	786 hekjalnın;	Riverside	(876) 876-9876	glksdjf
Edit Delete Select nono	keck	786 hekjalnın;	Riverside	(876) 876-9876	<u>elksdjf</u>
Edit Delete Select nono	keek	786 hekjalnm;	Riverside	(876) 876-9876	glksdjf
Edit Delete Select qiqi	keek	786 hekjalnni;	Riverside	(876) 876-9876	glksdjf
<u>Edit Delete Select</u> qoqo	keek	786 hekjalnm;	Riverside	(876) 876-9876	glksdjf

Fig.31 Editing Function Page

Sorting Function.Click the head of each column,
 the information of the whole table will be sorted
 in the order of that column. For example, click
 "First Name" and the information in the whole
 table will be sorted by first name.

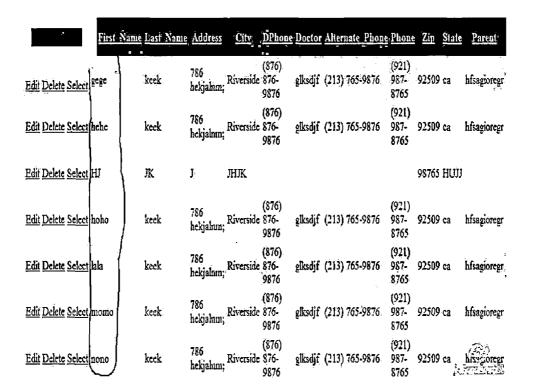


Fig.32 Sorting Page

### Disability Sports Festival Website User Interface

Home Page. This is the first page users will see when browsing the address of the DSF website. It includes the account, form downloading, donations and welcome parts. It also displays the logo of DSF (Figure 33).

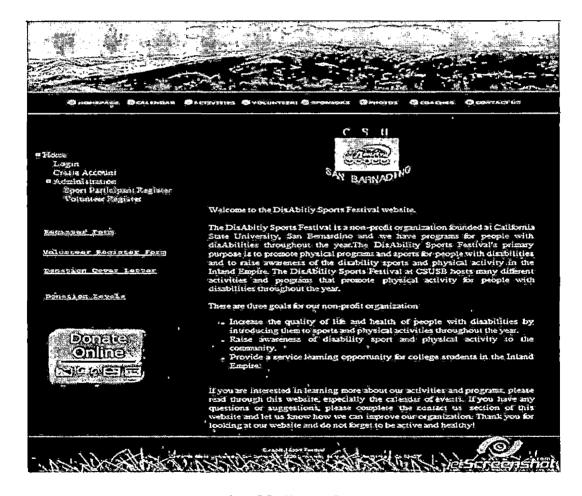


Fig.33 Home Page

Login Page. Click on "Login" hyperlink of the account part located on the left side of web page to login if a user has an account (Figure 34).

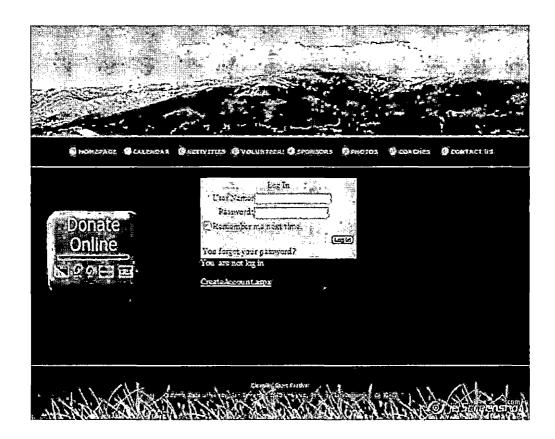


Fig.34 Login Page

Create Account Page. Click on "Create Account"

hyperlink of the account part located on the left side of
web page and create an account including information as
below (Figure 35).

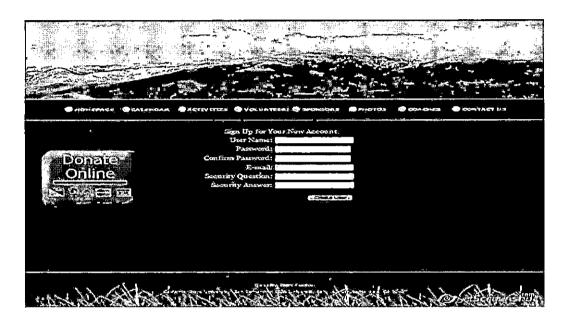


Fig.35 Create Account Page

Administrator Page. All users could browse almost all the web pages except the pages required administrator authorization. Such as administrator page, sport participant register management page and volunteer register management page.

This page includes calendar management, sports participants register management page and volunteers register management page (Figure 36).

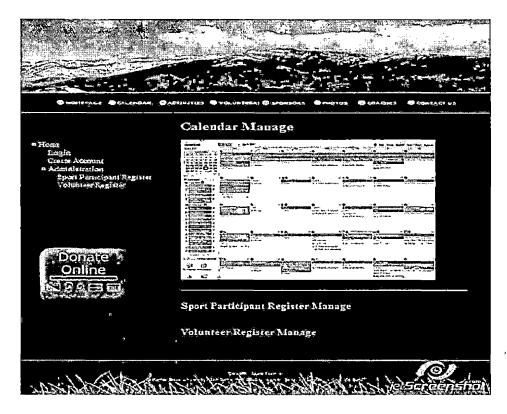


Fig.36 Administrator Page

Form Download Page. Click on hyperlink of any forms located on the left side of web page, a responding window will pop out to display a downloadable form (Figure 37).

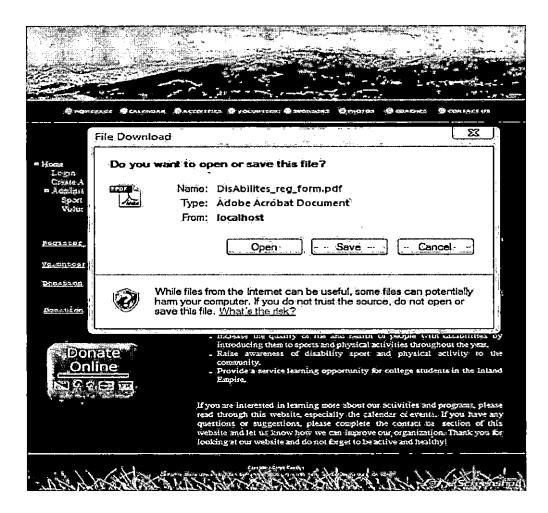


Fig.37 Form Download Page

Donation Page. After Clicking on the image button of donations on the left side of web page, the page will be redirected to the donation page (Figure 38).

## yuhe li's Test Store Flease enter your donation amount and offix Update Total. Total csush disability sport festive Resorate, 12345673 \$ USD PayPal 🖺 Secure Particular Donate quickly with PayPat PayPal securely processes donations for yuke its Test Store. You can complete your payment with just a Why use PayPal? LOG IN TO PAYPAL . It's easy to send money and shop online You can donate without sharing your financial information Email: yacyao\_1267586704\_per@d Over 50,000 online merchants accept PayPal Password: Don't have a PayPal account? Use your credit card or bank account (where svallable). <u>Continue</u> Records VISA -@ 🚍 🗝 Forgot email todress or passitions?

Fig.38 Donation Page

Pagest protects your greatly and security.
For more impression, read our <u>User Adventors</u> and <u>Private Policy.</u>

Donators write down the amount of money that want to donate and then click "updated of total" and will be redirected to the following page (Figure 39).

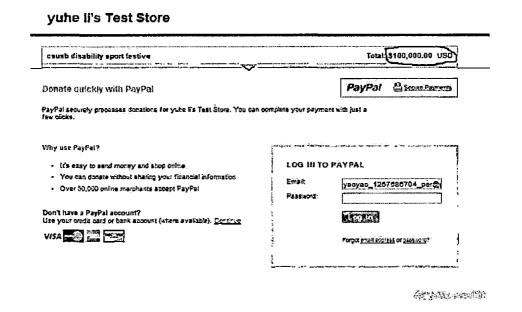


Fig.39 Donation Page 2

64

Then donators can choose the payment methods by using credit card, bank account or Paypal account. After they click submit button, the new page is as following (Figure 40).

# yuhe li's Test Store PayPal Cassas Concrects Test, please review your donation To complete your payment, review the details below and olich Denate. Visit <u>Funding Sources</u> to learn more about PayPal policies and your payment source rights and remedies, or to change debit part processing options. Sport featival 31,000.00 \$1,000.00 TE Acts special instructions to seller \$1,000.00 USD Payment Method; PayPat Balance \$94.00 USD Instant Transfer ; Chase Manhattan Checking (Confirmed) x-1138 \$905.00 USD Participal for the Year (1990), 2000/2000/3170 to the one from the reason in resource for the enough the control of the Contro 1 Main St San Jose, CA 95131 United States <u>Chance</u> Mailing address: Contact information: yeoyao\_1267585704\_per@gmail.com Property of the second second

Fig. 40 Donation Page 3

Calendar Page. In this page, users can browse the programs scheduled in a specific day, week or month (Figure 41).

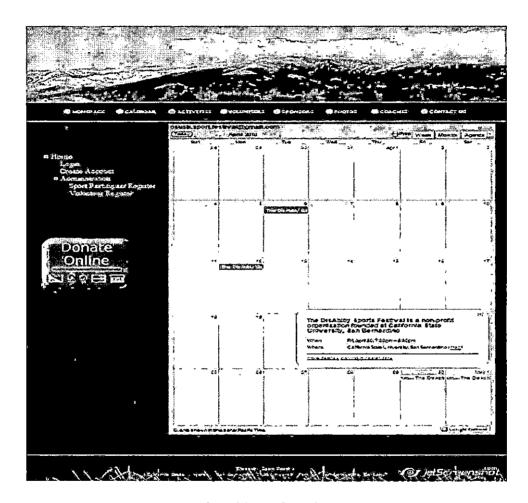


Fig.41 Calendar Page

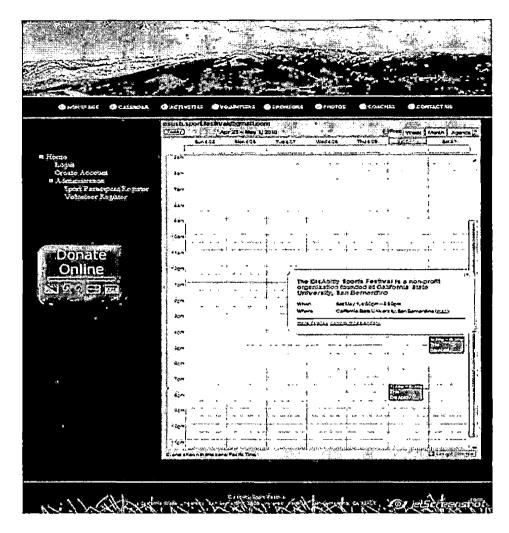


Fig.42 Calendar Page 2

Calendar page provides the agenda for information checking (Figure 43).

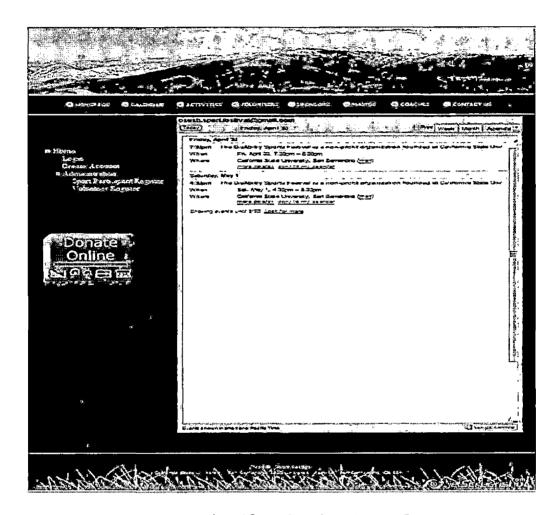


Fig.43 Calendar Page 3

Calendar page also provides the print function (Figure 44).

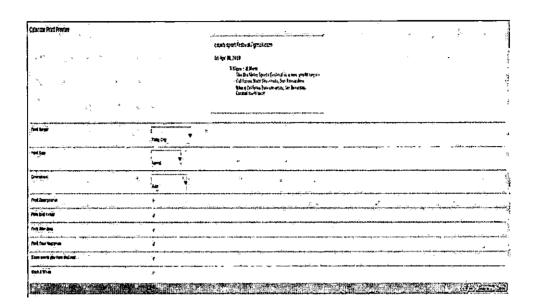


Fig.44 Calendar Print Page

Activities Page. All the sports provided by DSF and DSF'S programs through year are introduced in this page. It also offers sport participant registration and form download (Figure 45).

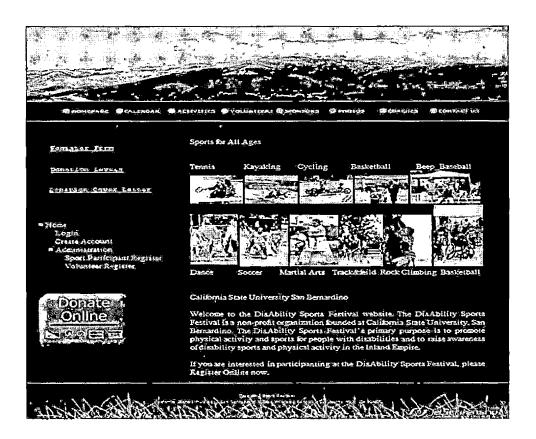


Fig.45 Activities Page

Sport Participant Register Page. This page was designed based on the sport participant registration form provided by DSF committee (Figure 46).

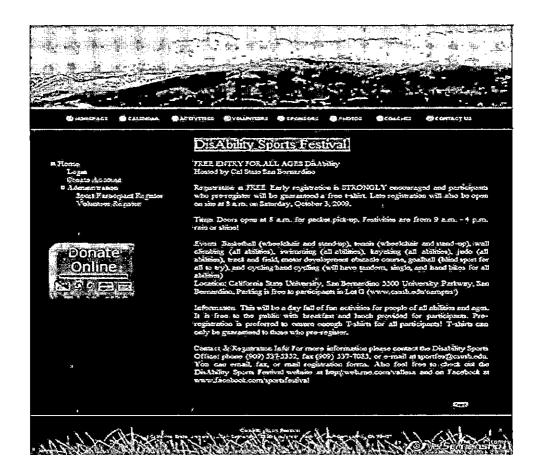


Fig. 46 Sport Participant Register Page

Click the "Next" button and redirect to another 'page (Figure 47).



Fig. 47 Sport Participant Register Page 2

	T-shirt size	
	za:	
	Event Categories (Please Mark All That Apply)	
	(** For people with and without visual impairments.)	
	■ Kayaking	
	■ Basketbell	
	■ Wheelchair Baskerball	
	# Tennis	
	■ Wall Climbing	
	■ Martial Arts	
	■ Swisening	
	■ Hand Cycling	
	<b>■</b> Cycling	
	™ Track & Field	
D.	☑ Goal Ball **	
	™ Beep Baseball**	
	■ Dance	
	■ Soccia	
	■ Motor Skilla Activity	
	Disability Type (Please Mark All That Apply)	
	■ Intellectual Disability (i.e. Down Syndrome)	
	■ Specific Learning	
	■ Autism	
	■ Hearing Impairments / Deafness	
	☐ Traumatic Brain Injury ☐	
	₩ Visual Impairments / Blindness	
	■ Orthopedic impairment/physical disability (ie, SCI, ce	rebrai palsy)
	■ Other Health Impairments (i.e. ADD / ADHD)	
	MOther Medical Conditions:	
	Has the participant had a seizure in the last 5 years?	
	• Yes • No	🍠 jelScreenshot

Fig.48 Sport Participant Register Page 3

	Has the participant had a seizure in the last S years?
	• Yes • No
4	If yes, please describe the seizure? Time it usually lasts? Unconscious? What symptoms before it occurs? Is there anything in particular to avoid?
	1
,	In case of an emergency, who should we contact?
	Name: «
•	Phone Number:
	· · · · · · · · · · · · · · · · · · ·
	Lami,
NE WARRY	

Fig. 49 Sport Participant Register Page 4

<u>Volunteer Page.</u> This page offers volunteer registration and form download (Figure 50).

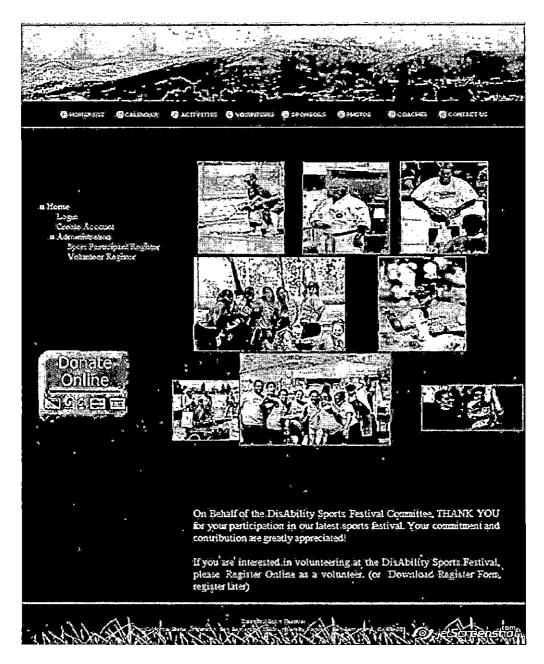


Fig.50 Volunteer Page

Volunteer Register Page. This page was designed based on the volunteer register form provided by DSF committee (Figure 51).

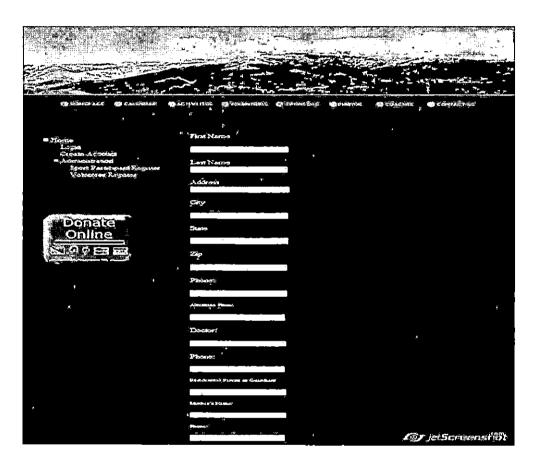


Fig.51 Volunteer Register Page1

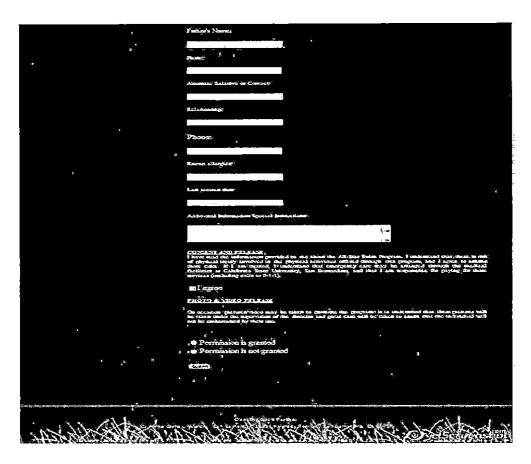


Fig.52 Volunteer Register Page2

Volunteer Register Form Download (Figure 53).

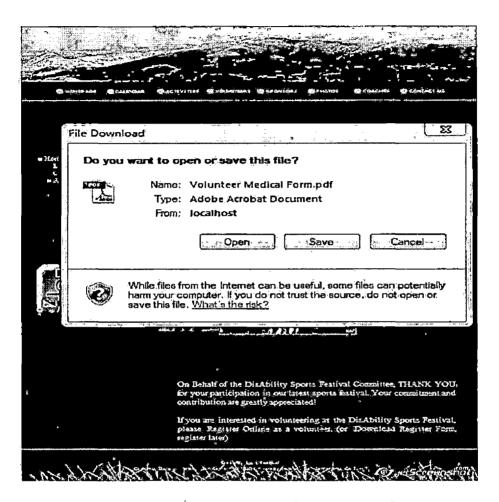


Fig.53 Volunteer Register Page3

Sponsors Page. Sponsors who support DSF are introduce and hyperlinks of their websites are provided (Figure 54).

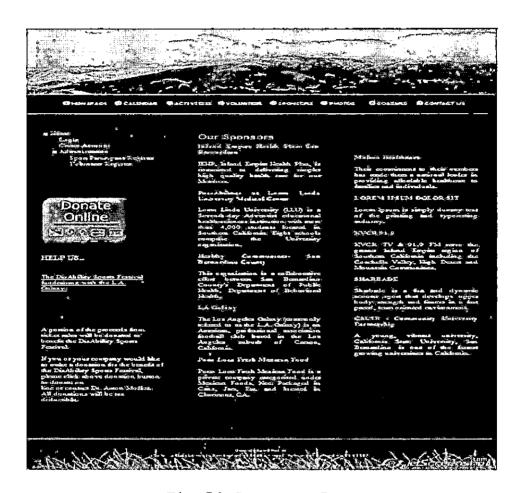


Fig.54 Sponsors Page

Click DSF fundraising hyperlink and download form (Figure 55).

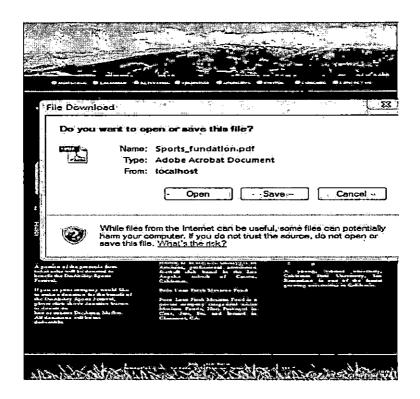


Fig.55 Funding Form Download

Photos Page. This page includes slideshow and video
(Figure 56).

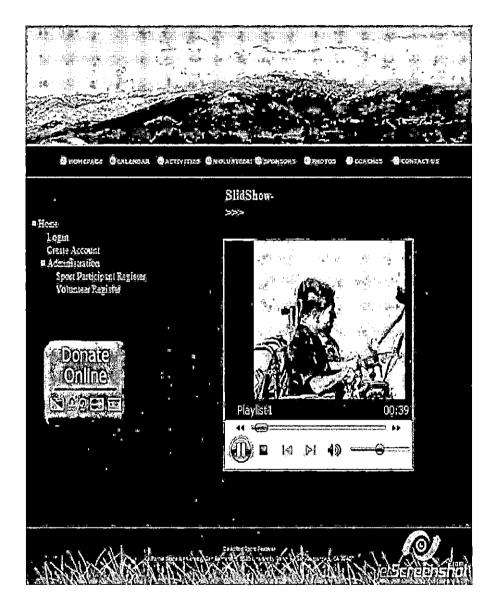


Fig. 56 Video in Photo Page

Slideshow Page. The slideshow can be controlled through the buttons of "previous", "next" and "stop" (Figure 57).

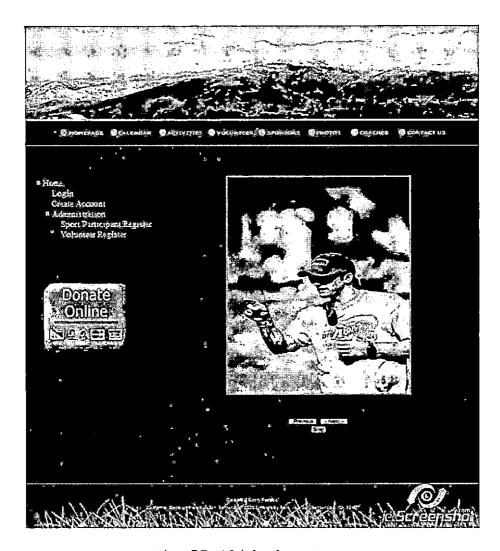


Fig.57 Slideshow Page

<u>Coach Page.</u> This page displays the contact information of the coaches who are responsible for the disability sports.

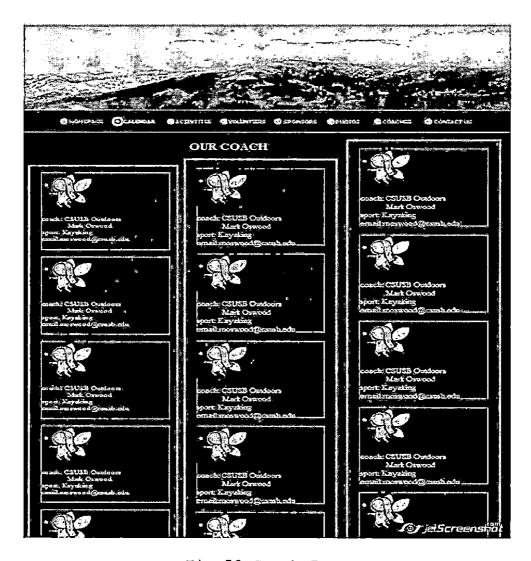


Fig.58 Coach Page

Contact Us Page. Through this page, users can contact DSF directly by sending email to DSF organizers.

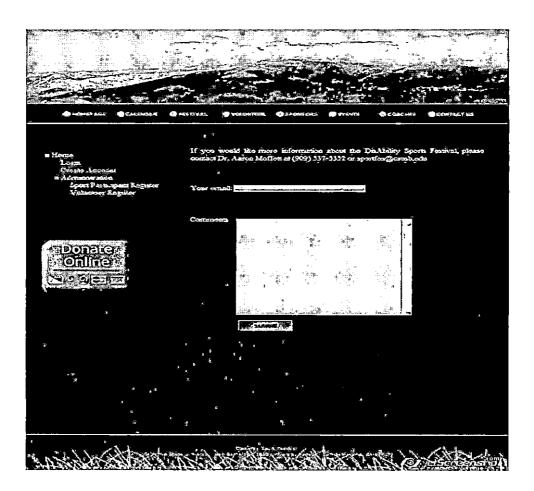


Fig.59 Contact Page

AJAX Page Integrated into ASP.NET Page

DSFW uses ASP.NET AJAX framework and the ASP.NET AJAX

Control Toolkit to enhance an existing ASP.NET 2.0

application. In order to integrat Ajax page into Asp.net

page, the following two steps can be carried out to allow

system to successfully combining the two frameworks.

### Download ASP.NET AJAX Installer and Install

Download the ASP.NET AJAX installer and ASPAJAXExtSetup.msi, from official site, (http://ajax.asp.net) and install it. This adds a new set of project templates and new Toolbox controls accessible to DSFW project in Visual Studio 2005.

Setting Up the ASP.NET AJAX Control Toolkit

After installing ASP.NET AJAX, download the ASP.NET AJAX Control Toolkit and setting up the ASP.NET AJAX Control Toolkit.

Modify the Web.config. Because ASP.NET AJAX is a new technology, it is not fully integrated into the base configuration files of .NET 2.0. As a result, several new configuration entries must be added to an AJAX-enabled DSFW's web.config.

```
web.config*
(?xml version="1.0"?)
    H<!--
                Note: As an alternative to hand editing this file you can use the
                web admin tool to configure settings for your application. Use
                the Website-DAsp. Net Configuration option in Visual Studio.
                A full list of settings and comments can be found in
                machine.config.comments usually located in
                \Windows\Microsoft.Met\Fremework\v2.x\Config
    日本configuration xmlns="http://schemas.mlcrosoft.com/.NetConfiguration/v2.0">
     ConfigSections>
                <sectionGroup name="system.web.extensions" type="System.Web.Configuration.SystemWebExtensionsSectionS</p>
                                             System. Web. Extensions, Version=1.0.61025.0; Culture-neutral, PublicReyToken=31bf3856ad3
                    <sectionGroup name="soripting" type="System.Web.Configuration.ScriptingSectionGroup, System.Web.Ext.</p>
                                                 Version=1.0.61025.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35*>
                        <section name="scriptResourceHandler" type="System.Web.Configuration.ScriptingScriptResourceHandle"</pre>
                                           System.Web.Extensions, Version=1.0.61025.0, Culture=neutral, PublicKeyToken=31bf3856ad36-
                                           requirePermission="false" allowDefinition="MachineToApplication"/>
                        <sectionGroup maze="webServices" type="System.Web.Configuration.ScriptingWebServicesSectionGroup,</pre>
                                                     System.Web.Extensions, Version=1.0.61625.0, Culture=neutral, PublicKeyToken=31bf385
                            <section name="jsonSerialization" type="System:Web,Configuration.ScriptingUsonSerializationSect"</p>
                                               System Web.Extensions, Version=1.0.61025.0, Culture=neutral, PublicReyToken=31bf3356ad
                            <section name="profileService" type="System.Web.Configuration.ScriptingProfileServiceSection,</pre>
                                               System.Web.Extensions, Version=1.0.61025.0, Culture=neutral, PublicKeyToken=31bf3856ad
                           Ksection name="authenticationService" type="System.Web.Configuration.ScriptingAuthenticationSer.
                                               Version=1.0.61025.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" requirePermission=1.0.61025.0, Culture=neutral, PublicKeyToken=1.0.61025.0, Culture=neutral, PublicKeyT
                        </sectionGroup>
                    </sectionGroup>
                </sectionStoup>
            </configSections>
```

Fig. 60 Ajax-Enable Web.config

#### CHAPTER FIVE

#### SOFTWARE TESTING

This chapter is to test the software qualities of the DSFW.

The purpose of this software testing is to evaluate the attributes or capabilities of the DSFW and determine if it meets its required results. The following sections depict the results in different testing levels. The Paypal Sandbox environment is used to test donation processing.

### Unit Testing

Unit testing is a method of testing that determines whether of not the individual units of source code are working properly. A unit is the smallest testable part of an application in DSFW Projection

Both black and white box are intergrated into unit testing. The results of unit testing in this section are shown in Table 14.

Table 14. Unit Testing Results

Test	Results
Verify that it redirects to proper	
page after clicking the menu button	pass
Verify that it downloads proper file	
after clicking certain linkbutton	
Verify that it redirects to the	
proper page after clicking certain	
hyperlink	
Verify that the Paypal button works	
Verify that it redirects to proper	
page after clicking the menu button	pass
Verify that Calendar works and can be	
printed	
Verify that the Paypal button works	
Verify that it redirects to proper	
page after clicking the menu button	pass
Verify that it downloads proper file	
after clicking certain linkbutton	
Verify that it redirects to the	
proper page after clicking certain	
hyperlink	
Verify that the Paypal button works	
Verify that it redirects to proper	
page after clicking the menu button	pass
Verify that error message displays	
correctly when error occurs	
Verify that it redirects to the	
	Verify that it redirects to proper page after clicking the menu button Verify that it downloads proper file after clicking certain linkbutton Verify that it redirects to the proper page after clicking certain hyperlink Verify that the Paypal button works Verify that it redirects to proper page after clicking the menu button Verify that Calendar works and can be printed Verify that it redirects to proper page after clicking the menu button Verify that it redirects to proper page after clicking the menu button Verify that it downloads proper file after clicking certain linkbutton Verify that it redirects to the proper page after clicking certain hyperlink Verify that the Paypal button works Verify that it redirects to proper page after clicking the menu button Verify that it redirects to proper page after clicking the menu button Verify that error message displays correctly when error occurs

	proper page after clicking certain	
	hyperlink	
	Verify that the Paypal button works	
	Verify that register process	
	successfully and the data inserts into data	
	base	
	Verify that it redirects to proper	
Volunteer	page after clicking the menu button	pass
	Verify that it downloads proper file	
	after clicking certain linkbutton	
	Verify that it redirects to the	
	proper page after clicking certain	
	hyperlink	
	Verify that the Paypal button works	
	Verify that it redirects to proper	
Volunteer	page after clicking the menu button	pass
Register	Verify that error message displays	
	correctly when error occurs	
	Verify that it redirects to the	
	proper page after clicking certain	
	hyperlink	
	Verify that the Paypal button works	
	Verify that register process	
	successfully and the data inserts into data	
	base	
	Verify that it redirects to proper	<u> </u>
Sponsor	page after clicking the menu button	pass
	Verify that it downloads proper file	
	after clicking certain linkbutton	
	<u></u>	

	Verify that it redirects to the	
,	proper page after clicking certain	
	hyperlink	
	Verify that the Paypal button works	
	Verify that it redirects to proper	•
Phones	page after clicking the menu button	pass
	Verify that the video show workes	
	Verify that it redirects to the	
	proper page after clicking certain	
	hyperlink	
	Verify that the Paypal button works	
	Verify that it redirects to proper	
Coach	page after clicking the menu button	pass
	Verify that it redirects to the	
	proper page after clicking certain	
	hyperlink	
	Verify that the Paypal button works	
	properly	
	Verify that it redirects to proper	-
Contact us	page after clicking the menu button	pass
	Verify that error message displays	
	correctly when error occurs	
	Verify that email will be sent out	:
	Verify that it redirects to the	
	proper page after clicking certain	
	hyperlink	
	Verify that the Paypal button works	
	properly	

r	T 10 17 11 11 11 11 11 11 11 11 11 11 11 11	
	Verify that it redirects to proper	
Slidshow	page after clicking the menu button	pass
	Verify that the slid show works	
	Verify that it redirects to the	
	proper page after clicking certain	
	hyperlink	
	Verify that the Paypal button works	
	properly	
<del></del>	Verify that it redirects to proper	
Admin	page after clicking the menu button	pass
	Verify that it redirects to the	
	proper page after clicking certain	
	hyperlink	
	Verify that the Paypal button works	
	properly	
SportRegister	Verify that editting, selecting,	
Manage	paging, deleting, and sorting all work	Pass
	properly	
Volunteer	Verify that editting, selecting,	
Register	paging, deleting, and sorting all work	pass
   Manage	properly	
	Verify all buttons work properly	<u> </u>
Login	Verify that error message displays	Pass
	correctly when error occurs	
	Verify that page is redirected to	
	proper page when correct authentication is	
	entered	
L	<u> </u>	<del></del>

	Verify all buttons and links work	
Change	properly	pass
Password	Password Verify that error message	
	displays correctly when error occurs	
	Verify that new password has been	
	saved correctly	
<u></u>	Verify all buttons work properly	
Account	Verify that error message displays	pass
Creation	correctly when error occurs	
	Verify that the page is redirected to	
	proper page when correct information is	
	entered	
	Verify all buttons work properly	
	Verify that error message displays	pass
Forgot	correctly when error occurs	
Password	Verify that the page is redirected to	
	proper page when correct information is	
	entered	

# System Testing

The purpose of integration testing is to detect any inconsistencies between the software units that are integrated together. DSFW has four major parts that need system testing: Administrator, Sport Participant Register, Volunteer Register and Slideshow. Table 17 shows the testing results.

Table 15. System Testing

System	Test	
		Result
	Verify that only authenticated	
Administrator	personnel can access Admin folder	
	Verify that administrator can	pass
	sort, select, edit and delete sport	
	participant register information	
	Verify that administrator can	
	sort, select, edit and delete volunteer	
	register information	
	Verify that administrator can add,	
	edit and delete programs through calendar	
	Verify that page information can	
Sport Participant	be submitted successfully and storeed	
Register	into database	
	Verify that page information can	pass
	been correctly retrieved from database to	
	the Sport participant register management	l I
	page	
	Verify that administrator can	
	sort, select, edit and delete sport	
	participant register information	
	Verify that page information can	
Volunteer	be submitted successfully and stored into	
Register	database	pass
	Verify that page information can	
	been correctly retrieved from database to	

	the Sport participant register management page  Verify that administrator can sort, select, edit and delete volunteer register information	
Slidshow	Verify that Ajax tool works correctly within the Asp.net page Verify that Asp.net page works correctly with the Ajax tool	pass

# System Integration Testing

This testing mainly tests that the DSFW is integrated into the Paypal payment system with Paypal API and SQL database systems and can be successfully deployed on IIS. Table 16 shows the testing results.

Table 16. System Integration Testing

System	Test	Result
SQL	Installation & Start up	pass
	Set up Paypal Payment Pro account	
Paypal	Request for Paypal API username and	pass
API	password	
	Set up API environment	
	Process payment with testing accounts	

#### CHAPTER SIX

#### MAINTENANCE MANUAL

Maintaining the system is an important aspect of The Systems Development Life Cycle.

Without maintained and stable web and database,
Disability Sports Festival can not provide a reliable and
24/7 website for users. This following section contains
instructions for setting up and managing Internet
Information Server and all necessary applications for
running the DSFW.

## Operation System Installation

To the website, it is critic to have a stable and secure server. Since Microsoft Windows Server 2003 Standard Edition offers secure Internet connectivity and delivers better performance, it was chosen to be the operating system of DSFW.

### Install the Windows Server 2003

The easiest installation method is installing directly from a CD by booting computer with the CD.

### Hardware Requirement.

- . Computer and processor.PC with a 133-MHz processor required; 550-MHz or faster processor recommended; support for up to four processors on one server
  - Memory.128 MB of RAM required; 256 MB or more recommended; 4 GB maximum
  - Hard disk.1.2 GB for network install; 2.9 GB for CD install

## IIS 6.0 Web Server Installing

Make sure that .NET 2.0 Framework is installed after the IIS web server is. If you first installed the framework, please use the below command line:

C:\[WinDir]\Microsoft.NET\Framework\[Version]\aspnet\_regiis
.exe -i

Before starting to install the IIS web server, an antivirus software should been installed to secure the operating system.

.NET 2.0 Framework Installing.

Set up a ASP.NET Web Site with IIS.

- To start IIS Manager, select Settings -> Control
   Panel -> Administrative Tools Internet Services
   Manager from the Start menu.
- The next step would be to create a virtual
  directory for an existing physical directory.
   Expand the Web Sites item in the IIS tree, rightclick the Default WebSite item and choose New ->
   Virtual Directory from the menu

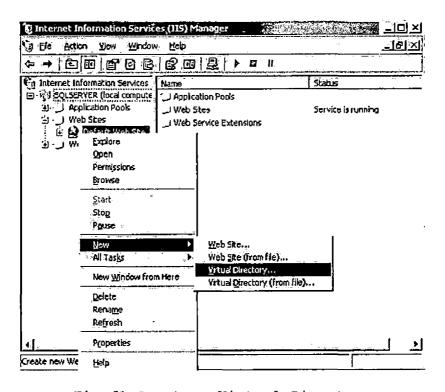


Fig. 61 Create a Virtual Directory

• The first step in the wizard responsible with the virtual directory creation is to choose an alias (see Figure 62). The alias is the name a user will use in his URL to access the files in this virtual directory.

	rtual	Direc	tory A	lias	Wíżar alias, f			irector			Ph.			× X
	Typ sam	e the a	elias yo ing cor	u want oventio	to use ns that	to gain you wo	access uld for r	to thi	Web a dire	virtual o	firector	y. Use	the -	a
•	<u>A</u> lia	s:	ž t		£"	. ,	9	ы. <sup>*</sup>	ø	· Au , y	÷	^ <sub>V<sub>p</sub>,</sub>		;
	Му	Applic	ation	-1. SE.	ن ت د د	Talaks in 1	مناورد			e.				
ř	wir Ne	· 2		n. 1	ε		a <sub>3</sub>	j.					,	
	» ر		*	P .	No. A	 1		*	e.	a	• ,	z	ą	e.
	÷,		**		5 <b>8</b> 61	u	ŭ	*	7	٠	20		,	
, n	r	2		<b>5</b> :	ia.	ı	Ť4.	<sup>1</sup> n		÷			e <sup>3</sup>	
								-< <u>B</u> ac	.k_	<u>N</u> e	xt >	]_	Canc	el

Fig.62 Alias

 The next step in this wizard is to provide an existing physical directory to which the virtual directory will point to (Figure 63).

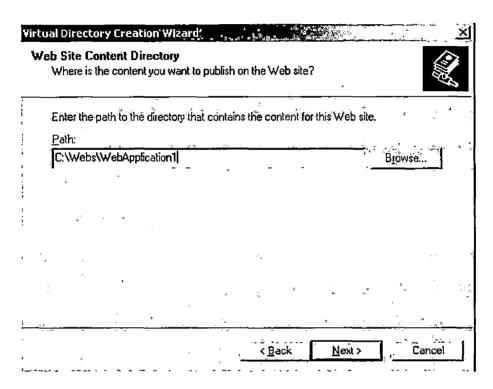


Fig. 63 Path of the Directory

 The final step in this wizard is to choose the permissions for the virtual directory (Figure 64).

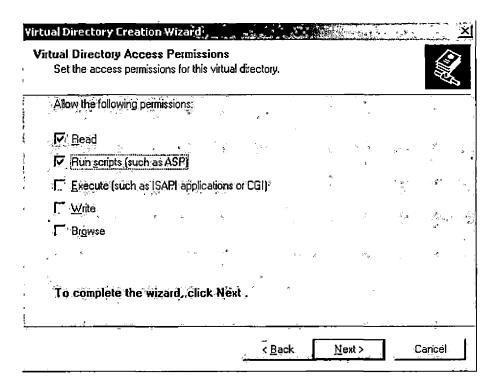


Fig. 64 Setting Permissions

Click next and then Finish to create the virtual directory.

After finishing these steps, the new virtual directory appears in the list in IIS Manager.

## Installing Microsoft AJAX

Downloading and Installing MS Ajax Extensions.For .Net Framework 2.0, it need install the MS Ajax extensions manually. Here's the download link to the installer.http://go.microsoft.com/fwlink/?LinkID=77296

Setting Up the ASP.NET AJAX Control Toolkit. After installing ASP.NET AJAX, download the ASP.NET AJAX Control Toolkit and setting up the ASP.NET AJAX Control Toolkit to Make Ajax Work on DSF Website on the Server.

Download the toolkit from the following location:

http://www.codeplex.com/AjaxControlToolkit

SQL Server 2005 Installation and Configuration.

Followed the step by step installing, the installation wizard will guider DBA to finish the installation.

Step 1: Prepare Your Computer to Install SQL
Server 2005.Make sure that the system meets all hardware and software requirements.

Step 2: Install SQL Server 2005.To install SQL Server 2005, run Setup using the SQL Server 2005 Installation Wizard or install from the command prompt.

Step 3: Configure Your SQL Server 2005 Installation.

After you finished installation, The "Help Protect Your SQL Server" screen will appear:

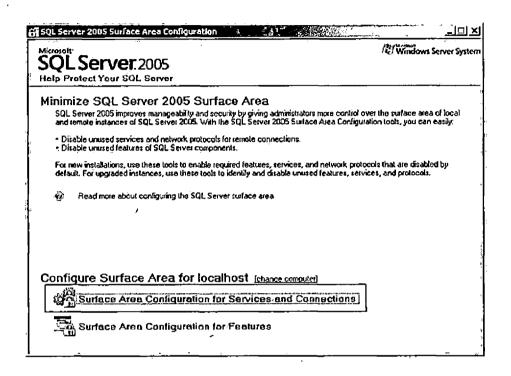


Fig. 65 SQL Protection Page

Click on the Surface Area Configuration for Services and Connections link.

The SQL Server 2005 Surface Area Configuration screen will appear:

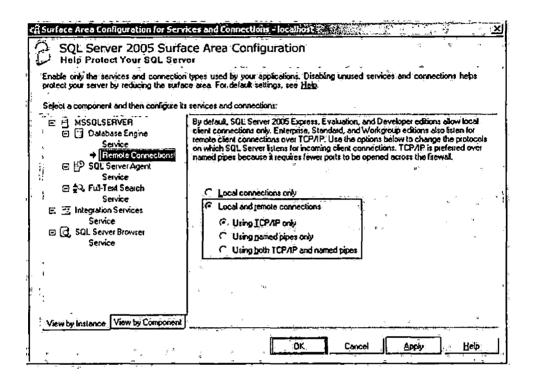


Fig. 66 SQL Server Configuration

Click on the Remote Connections node in the left hand tree pane, then click on Local and remote connections.

Disability Sports Festival Website Installation

The installation of the DSFW includes two parts, the

Web application and the database.

### SQL Data Import/Export

Start the Import/Export wizard from the SQL Server
Management Studio then connect to DSFW Database. Rights
click "aspnetdb" database and elect the "Tasks" item, then
either click on the "Import Data..." or "Export Data..."
menu item. Below is a screen shot of where to locate the
"Import..." or "Export Data..." tasks:

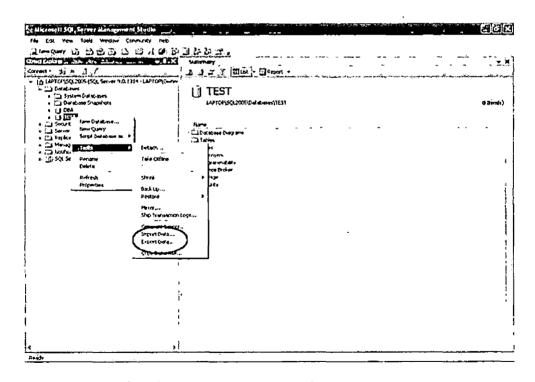


Fig. 67 Data Import and Export Page

## Deployment and Configuration

DSFW uses copy web site, a new technique provide by ASP.NET2.0, to deploy. An advantage of Copy Web Site is that it provides the options to deploy to the File System, the Local IIS, the FTP Sites, and the Remote Sites. Please see figure 68.

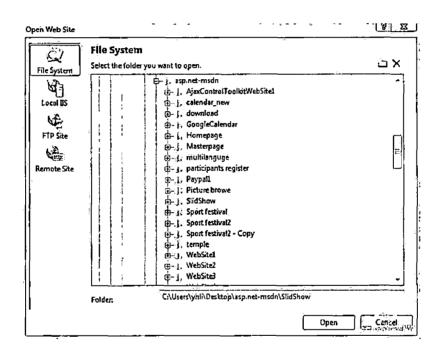


Fig. 68 Copy Web Page

Copy the entire site (including subdirectories) to the virtual directory which already exists in IIS man agefile on the DSFW server.

### Windows Permissions

In order to access an ASP.NET web site, these accounts must have windows permission on the virtual directory.

Right click on the virtual directory you have just created and choose Permissions option like below. Now, give the appropriate windows permissions to ASPNET or Network

Service. (Figure 69)

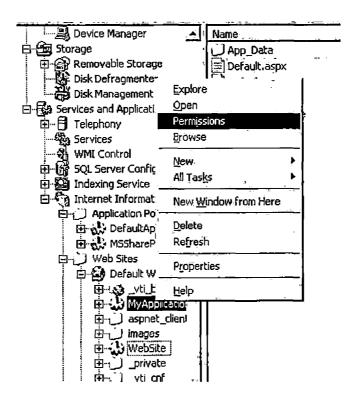


Fig. 69 Window Permission

#### CHAPTER SEVEN

#### CONCLUSION

In this project, a website, DSFW used by Disability Sports Festival was built in the framework of .NET. The website complies with the client requirements and has incorporated the feedback from DSF committee. Compared to the older version, this new website significantly facilitates the interactions between participants and organizers in the following aspects. Firstly, users can easily access the updated information about sports and physical activities throughout the year by checking the calendar of events. Secondly, the online registration and form download are available in the website for DSF participants and volunteers. They can either register online or fill and mail the downloaded registration form. Thirdly, user experience will be greatly enhanced through visual multimedia including slideshow and videoshow of disability sports festive scenes. Fourthly, integration of Paypal makes the donation process more accurate, efficient, and securer. Finally, the system administration and maintanence become easier and more efficient through webbased administration.

The focus of the future work is to enhance the capacity of administration, such as adding a pay-through-Paypal-page function (redirect donators to the DSF-customized Paypal page).

#### REFERENCES

- [B1] Zhu, A. H., and He, H.Y., "Research and Realization of a Centralized Document Management Model Based on ASP.NET," 2009 International Symposium on Intelligent Ubiquitous Computing and Education, pp.45-56, 2009.
- [B2] Ahuja, S.J., and Clark, R., "Comparison of Web Services Technologies from a Developer's Perspective," Proceedings of the International Conference on Information Technology: Coding and Computing, pp.3-5, 2005.
- [B3] Miller, G., .NET vs .J2EE, 2d ed. New York: Communications of the ACM, 2003, pp.25-36.
- [B4] .NET Development, MSDN Library
  http://msdn.microsoft.com/en-us/library/default.aspx/.
- [B5] Williams, D., Pro PayPal E-Commerce, CA: Apress, 2007, pp.20-56.
- [B6] ASP.NET AJAX Control Toolkit, The Official Microsoft ASP.NET Site, http://www.asp.net/.
- [B7] Murach, J., and Boehm, A., Murach's ASP.NET 2.0 Web Programming with C# 2005, CA: Apress, 2005, pp.35-57.
- [B8] Brill, G., CodeNotes for .NET, New York:Random House Inc, 2003, PP.28-32.
- [B9] Woolston, D., Pro Ajax and the .NET 2.0 Platform. CA: Apress, 2007, pp.56-78.
- [B10] Liberty, J., Programming C#: Building .NET Applications with C#. MA: Addison-Wesley, 2005, pp.55-69.

[B11] Sams, B.F., Teach Yourself SQL in 10 Minutes. Bakersfield: Manning Publications Co., 2004, pp.23-53.

[B12] Tulloch, M., IIS 6 Administration, Belmont: McGraw-Hill Osborne Media, 2007, pp.45-98.

[B13] Goldberg, K.H., XML: Visual QuickStart Guide, Los Angeles: Peachpit Press, 2008, PP.36-59.

[B14] Windows Server 2003 Tutorial Website, http://www.visualwin.com/.

[B15] Microsoftware Office Website,

http://www.microsoft.com/security/.