

4th DB Hand in

Description of the solution

The solution is an extension to the 3rd DB handin and it is build on the same Master page, CSS file and skin files. The menu item SPONSORS is added to the menu bar allowing coaches to maintain sponsor information.

The XML CRUD page (sponsorCRUD.aspx) is build on the CoachMaster page and only persons who are logged in as a coach can access the page. At the page, coaches can create new sponsors, delete existing sponsor and update a sponsor's information. When the page loades all sponsors displayes at page using a repeater. Coaches can select sponsors from a dropdownlist.

The Sponsor pictures is stored in the Pictures – Sponsor folder in the project. The pictures displays at the welcome page using a Repeater. At the SponsorCRUD page, coaches also can upload pictures of type .jpg or .png to the folder.

The XML file used in the solution is stored in the XML file folder in the project.

XML file

The file contain:

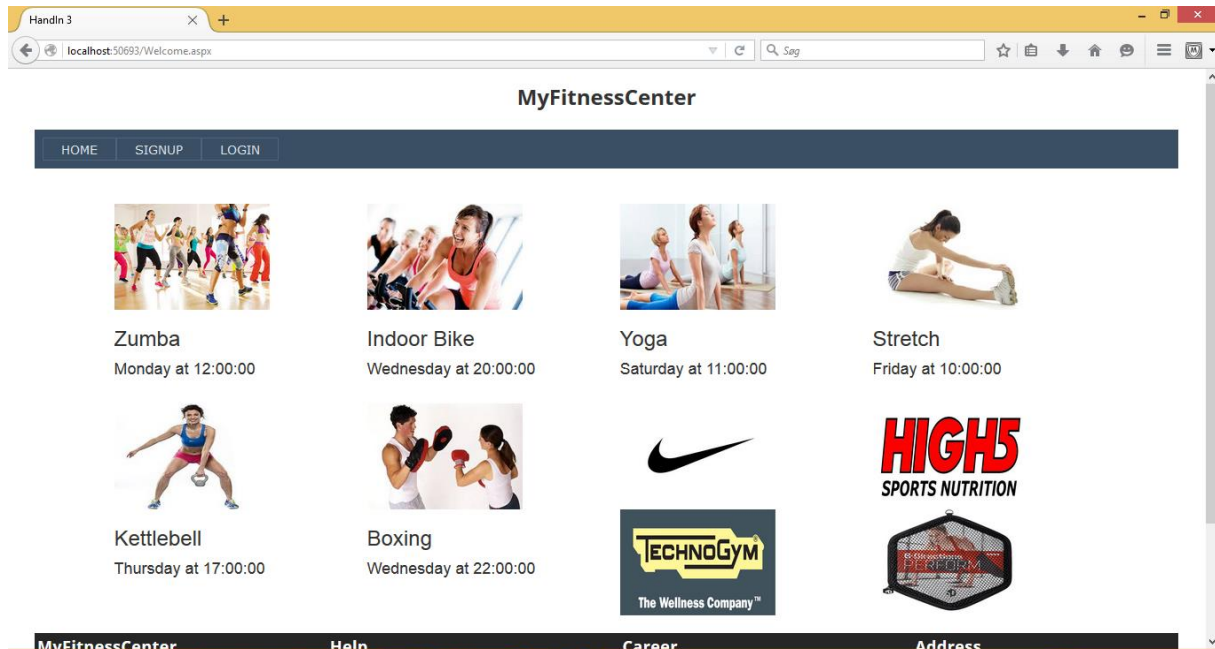
| | |
|-----------------|---|
| <root> tag: | Sponsors |
| <child> tag: | Sponsor |
| <subchild> tag: | all the elements of a sponsor; id, companyname, website, picture. |

```
<?xml version="1.0" standalone="yes"?>
<sponsors>
  <sponsor>
    <id>1</id>
    <companyname>Nike</companyname>
    <website>http://nike.com</website>
    <picture>nike_logo.jpg</picture>
  </sponsor>
  <sponsor>
    <id>2</id>
    <companyname>High5</companyname>
    <website>http://highfive.co.uk</website>
    <picture>high5_Logo.jpg</picture>
  </sponsor>
</sponsors>
```

```
<id>3</id>
<companyname>TechnoGym</companyname>
<website>http://technogym.com</website>
<picture>technogym.jpg</picture>
</sponsor>
<sponsor>
  <id>4</id>
  <companyname>6 Directions</companyname>
  <website>http://www.6-directions.com</website>
  <picture>6-directions_logo.jpg</picture>
</sponsor>
</sponsors>
```

Welcome page

The welcome page uses repeaters to display activity pictures and text.



Welcome.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Member.Master" AutoEventWireup="true"
CodeBehind="Welcome.aspx.cs" Inherits="HandIn3.Welcome" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">
</asp:Content>
<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
  <asp:Label ID="LabelMessage" runat="server"></asp:Label>
  <br />
  <div class="container">
    <asp:Repeater ID="RepeaterWelcome" runat="server">
      <ItemTemplate>
        <div class="col-sm-6 col-md-3">
          " alt="fitness" width="175"
height="120" />
          <h3 class="myitem"><%# Eval("Title") %></h3>
          <h4 class="myitem"><%# Eval("Weekday") %> at <%# Eval("Time") %></h4>
          <br />
        </div>
      </ItemTemplate>
    </asp:Repeater>
    <asp:Repeater ID="RepeaterSponsor" runat="server">
      <ItemTemplate>
        <div class="col-sm-6 col-md-3">
          " alt="logo"
width="175" height="120" />
          <br />
        </div>
      </ItemTemplate>
    </asp:Repeater>
  </div>
</asp:Content>
```

```

        </ItemTemplate>
    </asp:Repeater>
</div>
</asp:Content>

```

Sponsor CRUD

The screenshot shows a web browser window with the URL `localhost:50693/SponsorCRUD.aspx`. The browser has four tabs, all titled "HandIn 3". The application has a dark blue navigation bar with buttons for HOME, COACHES, MEMBERS, ACTIVITIES, SPONSORS, and LOGIN. A message in the top right corner states "You are logged in as a coach".

The main content area is titled "Maintain Sponsors". It features a dropdown menu labeled "Select a sponsor". Below this, there are four input fields: "Sponsor ID" (disabled), "Company Name", "Website", and "Picture". To the right of the "Company Name" field is a button labeled "Gennemse..." with the text "Ingen fil valgt." next to it. Below the "Picture" field is a dark blue "Upload" button.

At the bottom of the form, there are four buttons: "Create", "Update", "Delete", and "Cancel".

Sponsor.aspx.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

using System.Data;
using System.Data.SqlClient;

namespace HandIn3
{
    public partial class SponsorCRUD : System.Web.UI.Page
    {
        DataSet ds;
        DataTable dt;
        int userlevel;
        int membertnumber;
    }
}

```

```
protected void Page_Load(object sender, EventArgs e)
{
    Response.Cache.SetNoStore();

    try
    {
        userlevel = (int)Session["Level"];
        membernumber = (int)Session["MemberNumber"];
    }
    catch (NullReferenceException nre)
    {
        userlevel = 0;
        Session["Level"] = userlevel;
        LabelMessage.Text = nre.Message;
    }
    finally
    {
        SetButtonAndText();
    }

    if (!Page.IsPostBack)
    {
        UpdatePage();
    }
    else
    {
        if (DropDownListSponsor.SelectedIndex != 0)
        {
            ds = new DataSet();
            ds.ReadXml(Server.MapPath("~/XMLFile/XMLSponsors.xml"));
            dt = ds.Tables["sponsor"];

            foreach (DataRow dr in dt.Select("id = " +
Convert.ToInt32(DropDownListSponsor.SelectedValue)))
            {
                TextBoxID.Text = dr["id"].ToString();
                TextBoxCompanyName.Text = dr["companyname"].ToString();
                TextBoxWebsite.Text = dr["website"].ToString();
                TextBoxPicture.Text = dr["picture"].ToString();
            }

            LabelMessage.Text = TextBoxCompanyName.Text + " has been selected";

            // selected index must be set back to 0 to avoid old data to be read
back to the drop
            DropDownListSponsor.SelectedIndex = 0;
            ButtonCreate.Enabled = false;
            ButtonUpdate.Enabled = true;
            ButtonDelete.Enabled = true;
        }
    }
}

private void UpdatePage()
{
    //populate dropdownlist
    DropDownListSponsor.AutoPostBack = true;
    DropDownListSponsor.Items.Clear();
}
```

```
try
{
    ds = new DataSet();
    ds.ReadXml(Server.MapPath("~/XMLFile/XMLSponsors.xml"));
    dt = ds.Tables["sponsor"];

    DropDownListSponsor.DataSource = dt;
    DropDownListSponsor.DataTextField = dt.Columns[1].ToString();
    DropDownListSponsor.DataValueField = dt.Columns[0].ToString();
    DropDownListSponsor.DataBind();
}
catch
{
    // XML file does not exist or empty
    // dt made for display of repeater heading
    MakeNewDataSetAndDataTable();
}
finally
{
    RepeaterSponsor.DataSource = dt;
    RepeaterSponsor.DataBind();

    DropDownListSponsor.Items.Insert(0, "Select a sponsor");
}

TextBoxID.Text = "";
TextBoxCompanyName.Text = "";
TextBoxWebsite.Text = "";
TextBoxPicture.Text = "";

ButtonCreate.Enabled = true;
ButtonUpdate.Enabled = false;
ButtonDelete.Enabled = false;
}

private void MakeNewDataSetAndDataTable()
{
    ds = new DataSet("sponsors"); //root tag
    dt = ds.Tables.Add("sponsor");
    dt.Columns.Add("id", typeof(Int32));
    dt.Columns.Add("companyname", typeof(String));
    dt.Columns.Add("website", typeof(String));
    dt.Columns.Add("picture", typeof(String));
}

protected void ButtonCreate_Click(object sender, EventArgs e)
{
    try
    {
        ds = new DataSet();
        ds.ReadXml(Server.MapPath("~/XMLFile/XMLSponsors.xml"));
        dt = ds.Tables["sponsor"];
    }
    catch
    {
        // XML file does not exists
        MakeNewDataSetAndDataTable();
    }
}
```

```
int maxsponsorid = 0;

if (dt == null)
{
    // XML file exist but is empty
    MakeNewDataSetAndDataTable();
}
else
{
    foreach (DataRow dr in dt.Rows)
    {
        if (Convert.ToInt32(dr["id"].ToString()) > maxsponsorid) maxsponsorid =
Convert.ToInt32(dr["id"].ToString());
    }

    DataRow newrow = dt.NewRow();
    newrow["id"] = maxsponsorid + 1;
    newrow["companyname"] = TextBoxCompanyName.Text;
    newrow["website"] = TextBoxWebsite.Text;
    newrow["picture"] = TextBoxPicture.Text;
    dt.Rows.Add(newrow);

    ds.WriteXml(Server.MapPath("~/XMLFile/XMLSponsors.xml"));
    LabelMessage.Text = TextBoxCompanyName.Text + " has been created";
    UpdatePage();
}

protected void ButtonUpdate_Click(object sender, EventArgs e)
{
    ds = new DataSet();
    ds.ReadXml(Server.MapPath("~/XMLFile/XMLSponsors.xml"));
    dt = ds.Tables["sponsor"];

    foreach (DataRow dr in dt.Select("id =" + Convert.ToInt32(TextBoxID.Text)))
    {
        dr["id"] = Convert.ToInt32(TextBoxID.Text);
        dr["companyname"] = TextBoxCompanyName.Text;
        dr["website"] = TextBoxWebsite.Text;
        dr["picture"] = TextBoxPicture.Text;
    }

    ds.WriteXml(Server.MapPath("~/XMLFile/XMLSponsors.xml"));

    LabelMessage.Text = TextBoxCompanyName.Text + " has been updated";
    UpdatePage();
}

protected void ButtonDelete_Click(object sender, EventArgs e)
{
    ds = new DataSet();
    ds.ReadXml(Server.MapPath("~/XMLFile/XMLSponsors.xml"));
    dt = ds.Tables["sponsor"];

    foreach (DataRow dr in dt.Select("id =" + Convert.ToInt32(TextBoxID.Text)))
    {
        dr.Delete();
    }

    ds.WriteXml(Server.MapPath("~/XMLFile/XMLSponsors.xml"));
}
```

```
        LabelMessage.Text = TextBoxCompanyName.Text + " has been deleted";
        UpdatePage();
    }

    protected void ButtonCancel_Click(object sender, EventArgs e)
    {
        LabelMessage.Text = "Input values has been cleared";
        UpdatePage();
    }

    protected void UploadButton_Click(object sender, EventArgs e)
    {
        // Specify the path
        String savePath = @"C:\Users\Sorenbj\Documents\WEBSTUD -
1\Database\HandIn3\HandIn3\Pictures - sponsor\";

        // Verify that the FileUpload control contains a file.
        if (FileUploadPicture.HasFile)
        {
            // Get the name of the file to upload.
            String fileName = FileUploadPicture.FileName;

            // Get the extension of the uploaded file.
            string extension = System.IO.Path.GetExtension(fileName);

            if ((extension == ".jpg") || (extension == ".png"))
            {
                // Add the path to the name of the file to upload
                savePath += fileName;

                // Call the SaveAs method to save the uploaded file to the path.
                FileUploadPicture.SaveAs(savePath);

                LabelUpload.Text = "Your file was saved as " + fileName;
            }
            else
            {
                LabelUpload.Text = "Your file was not uploaded because " +
                    "it does not have a .jpg or .png extension.";
            }
        }
        else
        {
            // Notify the user that a file was not uploaded.
            LabelUpload.Text = "You did not specify a file to upload.";
        }
    }

    private void SetButtonAndText()
    {
        if (userlevel == 2)
        {
            LabelUserLevel.Text = "You are logged in as a coach ";
        }
        else
        {
            Response.Redirect("ErrorPage.aspx");
        }
    }
}
```

```
}  
}  
}
```

Screen dumps

Create sponsor

The screenshot shows a web browser window with the URL `localhost:50693/SponsorCRUD.aspx`. The page title is "MyFitnessCenter". The navigation bar includes links for HOME, COACHES, MEMBERS, ACTIVITIES, SPONSORS, and LOGIN. A message on the right states "You are logged in as a coach".

The main section is titled "Maintain Sponsors". It features a dropdown menu labeled "Select a sponsor". Below this, a message says "6 Directions has been created".

The form contains the following fields:

- Sponsor ID: A text input field.
- Company Name: A text input field with a "Gennemse..." button and the text "Ingen fil valgt."
- Website: A text input field.
- Picture: A text input field.

To the right of the form is an "Upload picture:" section with an "Upload" button.

At the bottom of the form are four buttons: "Create", "Update", "Delete", and "Cancel".

Below the buttons is a table with the following headers:

| Sponsor ID | Company Name | Website | Picturelink | Logo |
|------------|--------------|---------|-------------|------|
|------------|--------------|---------|-------------|------|

Select sponsor from dropdownlist

Handin 3 x Handin 3 x Handin 3 x Handin 3 x +

localhost:50693/SponsorCRUD.aspx

MyFitnessCenter

HOME COACHES MEMBERS ACTIVITIES SPONSORS LOGIN

You are logged in as a coach

Maintain Sponsors

Select a sponsor

6 Direction has been selected

Sponsor ID: 4

Company Name: 6 Direction Ingen fil valgt.

Website: http://www.6-directions.com

Picture: 6-directions_logo.jpg

| Sponsor ID | Company Name | Website | Picturelink | Logo |
|------------|--------------|---------|-------------|------|
|------------|--------------|---------|-------------|------|

Update sponsor

Handin 3 x Handin 3 x Handin 3 x Handin 3 x +

localhost:50693/SponsorCRUD.aspx

MyFitnessCenter

HOME COACHES MEMBERS ACTIVITIES SPONSORS LOGIN

You are logged in as a coach

Maintain Sponsors

Select a sponsor

6 Direction has been selected

Sponsor ID: 4

Company Name: 6 Direction Ingen fil valgt.

Website: http://www.6-directions.com

Picture: 6-directions_logo.jpg

| Sponsor ID | Company Name | Website | Picturelink | Logo |
|------------|--------------|---------|-------------|------|
|------------|--------------|---------|-------------|------|

Delete sponsor

Handlin 3 x Handlin 3 x Handlin 3 x Handlin 3 x

localhost:50693/SponsorCRUD.aspx

MyFitnessCenter

HOME COACHES MEMBERS ACTIVITIES SPONSORS LOGIN

You are logged in as a coach

Maintain Sponsors

Select a sponsor

6 Directions has been deleted

Sponsor ID

Company Name

Website

Picture

Upload picture:

Upload

Create Update Delete Cancel





| Sponsor ID | Company Name | Website | Picturelink | Logo |
|------------|--------------|---------|-------------|------|
|------------|--------------|---------|-------------|------|

Sponsor list

Handlin 3 x Handlin 3 x Handlin 3 x Handlin 3 x

localhost:50693/SponsorCRUD.aspx

Create Update Delete Cancel

| Sponsor ID | Company Name | Website | Picturelink | Logo |
|------------|--------------|---|-----------------------|--|
| 1 | Nike | http://nike.com | nike_logo.jpg |  |
| 2 | High5 | http://highfive.co.uk/ | high5_Logo.jpg |  |
| 3 | TechnoGym | http://technogym.com | technogym.jpg |  |
| 4 | 6 Directions | http://www.6-directions.com | 6-directions_logo.jpg |  |

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