AoC Web site – The Makeover

By

Steve Harvey

Submitted to
the Faculty of the Information Technology Program
in Partial Fulfillment of the Requirements for
the Degree of Bachelor of Science
in Information Technology

University of Cincinnati
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Steve Harvey

Annu Prabhakar

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I would like to give special thanks to the Aikido of Cincinnati members and all of the board members. I would also like to give special thanks to Jen Fritz from the Aikido of Cincinnati. Both Jen and the Aikido have assisted with the development and design of this Web site and project. I am grateful that I was able to develop the new Aikido of Cincinnati Web site.
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AoC Web site – The Makeover

1. Statement of the Problem

The Aikido of Cincinnati is a non-profit club founded in 1972 and affiliated with the USAF, (United States Aikido Federation), the largest Aikido association in America. The AoC’s Web site has been around for about that long too it seems. The Web site itself has minimal functionality and resources. They have to edit the html pages each time they want to change anything, there is no multimedia section and no real “design” to it. There are quite a few other flaws as well, which I’ll point out later on.

Currently, the Aikido of Cincinnati does have a Web site which can be found here (1). As you can see in figure 1 shown below, the site is very basic. It was created by a former member who designed and updated the site out of free will in his spare time. That member no longer has time to keep the site up-to-date or even add new functions or usability to the site.
Welcome to Aikido of Cincinnati’s homepage.

If, after looking around the site, you still have questions, feel free to send us an email, call, or drop by the dojo. Someone will always be glad to talk to you.

Larry Bieri Seminar

On October 13th and 14th, Larry Bieri, 6th Dan Shido in, will give a seminar at Aikido of Cincinnati.

The flier has all the information about the seminar.

Larry Bieri Oct 2007 Seminar Flier

Promotions

Congratulations to everyone who was promoted in June.

2nd Kyu
Yoko N.

4th Kyu
Bob K.

Figure 1: The Current AoC Index Page

The AoC board members feel something needs to be done. After all, the internet is the one place people go these days to get information on a company. The AoC feels their Web site doesn’t help to attract any new members. Their view is that if the Web site is that boring and non-functional, then future members will think the Dojo puts that kind of effort into their Aikido training as well, which won’t bring many new members in. A new look, feel and design is exactly what the Aikido of Cincinnati needs. Therefore, there is a need to create a completely fresh and new Web site for the Aikido of Cincinnati.
2. Description of the Solution

A new Web site for the Aikido of Cincinnati will solve many problems, issues, wants and needs of the board. Along with Jen Fritz and the AoC board members, we determined what functionality and design they wanted to see implemented in the new Web site. The Web site should include the following (3):

- Better design/look;
- Blog/Archives;
- CMS or something similar so they can edit the pages easily with not much experience required;
- Google/Yahoo/Live Maps interactive directions/maps;
- Video(s) gallery;
- Images/Pictures gallery;
- Schedule of classes;
- Be user-friendly and easy to navigate;
- Reflect the Aikido's needs;
- Not require heavy technical support

The new Web site will be built using Asp.Net. ASP.Net is a Web application framework marketed by Microsoft that programmers and web developers can use to build dynamic web sites, web applications and web services. It is part of Microsoft's .Net platform and is the successor to ASP technology. ASP.Net is built on the Common Language Runtime, allowing users to write ASP.Net code using any Microsoft .Net language. The design and logos were designed using Adobe Photoshop.
2.1 User Profiles

There will be four different sets of users for this application, the Administrator, AoC board members, regular members and the general public. Please see the Use Case Diagram in Figure 2.

![Use Case Diagram]

Figure 2: Use Case Diagram

Administrator
Administrators have full access to the backend and can edit the site, create and delete pages and manage user profiles. The admin is the main person responsible for the site updates, including news, images, announcements, movies and other random updates. The Admin will also be responsible for creating new pages if there is a need. They will also be responsible for managing the server and domain. Besides these functions, the admin can do anything else on the site as well.

**Board Members (Power Users)**

The AoC board members, which are called Power Users on the site, will have slightly less access than the admin. Power Users have unrestricted access to pages, for which have been given access set by Administrator. So, depending on the rights the AoC gives Power Users, they could possibly be able to edit pages as well. Normally though, they will not have those rights. The Backend would still only be accessible for Administrators.

**Members**

The AoC members have general access to the site. They can view the site obviously, log in, and post comments on blogs.

**General Public**

The general public has the access to go to and view the site. They will be able to view anything that isn’t restricted.

**2.2 Design Protocols**

As I mentioned above, the new Web site will be built using Visual Studio.Net 2008. “Microsoft Visual Studio 2008 delivers on the Microsoft vision of smart client
applications by enabling developers to rapidly create connected applications that deliver the highest quality, rich user experiences. With Visual Studio 2008, users will find it easier than ever before to capture and analyze information to help them make effective decisions” (2).

“Visual Studio enables developers to easily create Web applications with more interactive, responsive, and efficient client-side execution by using the seamless integration and familiar programming model of ASP.NET AJAX along with Internet Explorer browser extensions and enhancements” (2).

“Visual Studio enables the creation of new Web experiences by empowering Web developers through simplifying Web development. Visual Studio 2008 gives developers the tools they need to build the next generation of Web experiences—both client-centric applications and Web services—more quickly, efficiently, and easily than ever before” (2).

The basic pages used for ASP.Net are .Aspx pages. .Aspx is an html file format used to create web-form pages. .Aspx files typically contain static HTML or XHTML markup, as well as markup defining web controls and web user controls where the developers place all the required static and dynamic content for the web page. ASP.Net also makes it easy to develop a back-end database for the current members to log into.

The CMS is based from the MWPSK CMS, using C#. It allows the administrators to edit and make changes to pages from the actual Web site, and not have to deal with any back-end code. It will be a dynamic CMS, which means new pages will have generic IDs. This allows the administrators assign a virtual path name which will then be used on the Web site.
When editing a page, there is a module list to pick from as well. This allows the administrators to pick what they want on that page. The current module list that I have implemented is as follows: (See Figure 3.)

- **Contact Form** – Self-explanatory contact form that is customizable
- **Download List** – Allows the sharing of documents. It allows the user to upload many different file formats and will automatically detect the file type.
- **Easy Control** – Controls that are made by anyone that knows ASP.Net. They can be very simple to make and use.
  - **Google Maps** – An Easy Control I made. It shows a location that you specify using Google Maps API.
- **Event List** – Self-explanatory Event creator. It lets you create events, and set their date and time.
- **Gallery** – A simple gallery to show pictures and images.
- **Guestbook** - Lets guests leave their comments on the Web site. This is different than a blog.
- **HTML Content** – This allows an administrator or power user to add and edit content with a rich text editor. Users are also able to toggle views between the design view and the HTML.
- **Link List** – Displays a list of links to other Web sites.
- **News List** – Displays a list of news that is happening.
- **Subpages** – If you have a page that has several subpages it list all these subpages on this parent page.
• Blog – A normal Web 2.0 type feature. It is a blog.
  o Blogroll – A module similar in structure to the Link List. The only difference is that the Blogroll displays links to other blogs.
  o TagCloud – The purpose of the TagCloud is to visualize keywords used in a blog.
• Video Content – A simple way to upload and display videos on the Web site. It uses the new SilverLight technology.

Figure 3: Adding a Module

The CMS will also allow for themes later on if there is a desire. Currently, I have created two. If there is a need for more though, they will show up on the main administrator page and will completely change the look of the site depending on the theme, which can be seen in Figure 4 below.
Figure 4: Theme Selection

The main graphics, images and logos were created using Adobe Photoshop CS3. Adobe Photoshop is a great tool for graphics creation and for editing any kind of photograph. Adobe Photoshop is a powerful visual communication tool, which makes it easier to create, resize, crop the images, and correct their color, both for print and for the Web. Beyond that, “it provides a laboratory for synthesizing textures, pattern, and special effects that can be applied to photos, graphics” (5).

Lastly, I made a static CSS (Cascading Style Sheet) so if users have different size monitors or browser windows, the new site should fit to it no matter what size it is.

2.3 Colors, Logos and Themes
The Aikido of Cincinnati wants the color selection to be “pure in spirit” and very easy on the eyes. It should be very easy to read everything on the site. I’ve decided to use a soft blue color for the whole site. The feedback I’ve received so far has been very good on the color selection.

The AoC would like to use the majority of their current logos on the new Web site as well. They told me at some point in the future, they would like to update the logos, but just not right now. I’ve also incorporated these logos onto the new Web site.

The theme for the Web site should be “Aikido like.” This means, it should not look similar to other Aikido sites, but it should be as calm and cool in nature and carry a soft Aikido look.

3. Deliverables

In order to provide a well-organized project certain items were wanted and needed for the new Aikido of Cincinnati Web site. During the past two phases of Senior Design the following deliverables were defined:

- A brand new Web site and design for the Aikido of Cincinnati;
- News section / Blog / Announcements / Events;
- Local / National driving directions with interactive map;
- Image Gallery;
- Video Gallery;
- Viewable and downloadable schedule of classes;
- Login for administrators and current members;
- A CMS for easy editing and creating of pages.
4. Design and Development

The next sections describe the project's timeline, and overall budget with hardware and software costs.

4.1 Timeline

This project involved several challenges and changes along the way. I made several learning mistakes and also several accomplishments that I am proud of. Below are my achievements of the Senior Design sequence.

4.1.1 Senior Design I Accomplishments

Organizing and meeting with Jen Fritz took place during October and November of 2007. Quite a few phone, E-mail and personal meetings were held with Jen Fritz at the Aikido of Cincinnati. A huge amount of research was performed on many pieces of this project.

- Evaluate the needs of the Aikido of Cincinnati Web site;
- Identify audience and user groups;
- Gather the necessary materials for development;
- Try to learn a bit more about ASP.Net and other languages.
- Design the CSS (Cascading Style Sheet) for the colors
- Document details in proposal;
- Developed and delivered our proposal and oral presentation.

4.1.2 Senior Design II Accomplishments
Breaking down and developing the necessary elements to be developed for the new AoC Web site took place in January, February and March of 2008. More and more research was done to learn about the best design.

- Set up goals to be completed;
- Design the page layouts;
- Design the look, feel, colors and logos;
- Created a few Flash based image galleries to show of pictures;
- Learned and played with Yahoo, LiveMaps and Google Maps API’s;
- Met again with Jen Fritz about requirements and needs of the AoC;
- Started development for CMS;
- Purchased a Windows server domain name for testing purposes;
- Document Design Freeze;
- Present Design Freeze.

4.1.3 Senior Design III Accomplishments

While there had been some testing going on during development, Senior Design III was when a lot of much harder and more in depth testing was put into practice. The final meetings with Jen Fritz and the AoC about the requirements were being completed. This took place during the months of April and May of 2008.

- Developed different modules for the CMS;
- Create help file for users at the Aikido;
- Upload images to the server for the gallery and Web site;
- Test the entire Web site myself;
- Have other users test the Web site;
4.2 Budget

The total retail cost of designing the new Web site would be $2,646. As you can see, being a student with MSDN access has some perks. Since, I used my home computer for development, and the majority of the software can be downloaded for free through the MSDN Web site, including the main software needed: Visual Studio.Net 2008 there is only $339 cost to me for this project, including the Adobe Creative Suite package purchased from the UC bookstores. See Figure 5 for budget details.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Retail Cost</th>
<th>My Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Hosting Server</td>
<td>Since I'm using ASP.Net, must use a windows server, and not Linux.</td>
<td>$20 per month</td>
<td>$20</td>
</tr>
<tr>
<td>Adobe Flash CS3</td>
<td>Bought through UC Bookstores</td>
<td>$699</td>
<td>$299</td>
</tr>
<tr>
<td>Adobe Photoshop CS3</td>
<td>Bought through UC Bookstores</td>
<td>$649</td>
<td>$299</td>
</tr>
<tr>
<td>Adobe Acrobat</td>
<td>Bought through UC Bookstores</td>
<td>$449</td>
<td>$299</td>
</tr>
<tr>
<td>Visual Studio 2008</td>
<td>Downloaded (MSDN)</td>
<td>$799</td>
<td>$0</td>
</tr>
<tr>
<td>MWPSK CMS</td>
<td>“Provided free, as open-source software, and licensed under a BSD-style agreement.”</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Mapping API’s</td>
<td>“Provided free, as open-source software, and licensed under a BSD-style agreement.”</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>4 GB Flash Drive</td>
<td>Purchased</td>
<td>$30</td>
<td>$20</td>
</tr>
</tbody>
</table>

**Retail Total:** $2,646
4.3 Hardware and Software

These were the necessary hardware and software components that assisted with the completion of new Aikido of Cincinnati Web site.

- **Adobe Photoshop CS3**
  Used for editing images and photo files

- **Adobe Flash CS3**
  Used for creating Flash files and movies

- **MWPSK CMS**
  Used the Content Management System

- **Visual Studio 2008**
  Used for web design with multi-tier functionality

- **Adobe Acrobat**
  Used for creating class schedule/E-books

- **Google, Live Maps, and Yahoo Maps API**
  Used for mapping and directions

5. Proof of Design

The next section shows in detail how deliverables of the project were fulfilled and what challenges we encountered.

5.1 Visual Appealing Design
The first impression of any site is always important. Therefore, a visually appealing Web site is always the first step to any good Web site. The light blue colors and font choices make the site easy to read and navigate through (See Figure 6).

Figure 6: Visual Appealing Design

5.2 News / Blog / Events Section

For a company like the Aikido of Cincinnati, news and events are a huge asset. Therefore, they needed a section where they could display new and upcoming events that are coming to the Aikido.

They should also be able to display any kind of news they might want the public to know. After all, that is a great way for future members to get involved (See Figure 7).
The dojo wanted an interactive area on their Web site for viewing a map of the Aikido and the surrounding areas. This way, out of town visitors could get a little more familiar with the area and how to get to the Aikido itself (See Figure 8). They also wanted an interactive section where current and future members could get driving directions (See Figure 9).
Figure 8: Location Page
Figure 9: Driving Directions Page

5.4 Image Gallery

The AoC takes pictures and videos of almost every event they hold. They want to have a section for this kind of multimedia. They really wanted the image gallery to be Flash oriented, so I created a Flash slideshow that pulls from a XML document for the images. I explained the XML / Flash slideshow would be more work on their end to update, but they liked it better, and were ok with it (See Figure 10).
Figure 10: Flash Image Gallery

5.5 Video Gallery

Just like the Image Gallery, the video gallery will show clips of classes, or demonstrations, or seminars that the AoC records (See Figure 11).
5.6 Viewable and Downloadable Schedule of Classes

The Aikido wanted their schedule of classes to be listed online, so members and non-members could view it whenever they wanted, but they also wanted it to be downloadable for people with slow internet access, or just easy access (See Figure 12).
## Class Schedule

<table>
<thead>
<tr>
<th>Mon</th>
<th>Tues</th>
<th>Wed</th>
<th>Thurs</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:15 am</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:30 am</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:45 am</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:30 pm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00 pm</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>1:45 pm</td>
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<tr>
<td>2:45 pm</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3:30 pm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:00 pm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00 pm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **C** = Children: Ages 6-10.
- **Y/C** = Youth: Ages 11-15.
- **B** = Beginners: New students are taught basic movements, techniques, and rolls. Open to all.
- **I** = Intermediate: Classes geared toward students who can perform a basic forward and backward roll. However, all students may participate.
- **A** = Advanced: Students should have a sankyu, and/or be able to perform all rolls and basic rolls. Students of less than sankyu rank may participate with permission of instructor.

To download a copy of the class schedule, please click below.

![Current Class Schedule (.pdf)](current_class_schedule.pdf)

---

### 5.7 Login for Administrators and Members

This login will allow anyone with dojo or member access to view the restricted pages or areas. This will work for both members and administrators. This way, the general public will not be able to view the restricted pages (See Figure 13).
5.8 CMS for Editing

A CMS will allow the administrators of the site to log in so they can make site changes without ever touching the code. The images below will explain a bit more about the CMS.

5.8.1 CMS Main Page

Figure 14 below shows the main page for the CMS. It allows the administrators to edit certain aspects of the site including the keywords, footer, the SMTP-Servers and the title of the Web site, along with a few other things.
5.8.2 CMS User Management

Figure 15 shows the user management page. This allows Administrators to give access rights to certain members, reset their passwords, or even to delete users.
### Administration → User Management

<table>
<thead>
<tr>
<th>Username</th>
<th>Comment</th>
<th>Power User</th>
<th>Admin</th>
<th>Last Login</th>
</tr>
</thead>
<tbody>
<tr>
<td>jen</td>
<td></td>
<td>x</td>
<td></td>
<td>5/19/2008</td>
</tr>
<tr>
<td>steve</td>
<td></td>
<td>x</td>
<td></td>
<td>5/15/2008</td>
</tr>
</tbody>
</table>

**Creating a new User**

- **User Name**
- **Password**
- **Confirm Password**
- **E-mail**

**Reset User Password**

- **Reset password for user name**

---

**Figure 15: CMS User Management**

### 5.8.3 CMS Page Creation

Figure 16 shows you the page creation. You type in the name of the page you want, and how you want it to show up in the menu. By un-checking “Allow Anonymous,” you will make the new page a restricted area to only registered users. By default it is checked so everyone can visit the pages.
Figure 16: CMS Page Creation

5.8.4 CMS Page Navigation

Figure 17 shows the Page Navigation. The arrows highlighted in red will allow you to move pages up or down, or even add it as a subpage.
Figure 17: CMS Page Navigation

5.8.5 CMS Page Deletion

Figure 18 shows how easy it is for an administrator to delete a page. All you have to do is go into your Page Navigation and click on the “Delete” button.
6. Testing Procedures

The Web site was tested as it is being developed. The design will go through certain stages which will have to be approved by the AoC board. The board will look for these main principles (4):

1. Is the Web site user friendly and design friendly?
2. Do the pages and links function properly?
3. Does it carry the Aikido theme?
4. Does it meet the boards’ requirements?
5. Improvements/ Feedback?

Most pages after creation on the actual Web site were tested for functionality directly after creation.

The Web site was tested on the following browsers:
7. Conclusions and Recommendations

7.1 Conclusion

In conclusion, the new Web site for the Aikido of Cincinnati will give the whole dojo a new look and feel. It will help the AoC market themselves, it will have more “personality,” and it will be easy to update for the administrators of the Aikido! The new Web site will keep that “Aikido feel” as you’re surfing through their site. The new Web site has been tested to ensure usability. It was also developed, tested, and completed according to the deliverables.

7.2 Recommendations

The new Aikido of Cincinnati Web site has tons of room for other development. I recommend a brief training session on the CMS for learning purposes and to gain a better understanding all of the modules that have been created. Overall though, it will be a great tool for the Aikido of Cincinnati.
Appendix A

Login Code

A. Login Validation Code

Appendix A contains the login validation code to show how the login is validated on the Web site. It is an .aspx page that is called on the master page to show up on every page in the Web site.

```csharp
<%@ Page Language="C#" MasterPageFile="~/Site.master" AutoEventWireup="true" CodeFile="Login.aspx.cs" Inherits="NLogin" Title="©© Resources:stringsRes, pge_Login_Title">" ValidateRequest="false" %>

<asp:Content ID="Content1" ContentPlaceHolderID="mainContent" runat="Server">
    <asp:Login ID="Login1" runat="server" DisplayRememberMe="true" Width="100%" FailureText="©© Resources:stringsRes, pge_Login_Failure" OnLoggingIn="OnLoggingIn" OnLoggedOut="OnLoggedOut">
        <LayoutTemplate>
            <div class="roundedTop"></div>
            <div class="framed">
                <table width="100%" id="TABLE1" border="0">
                    <tr>
                        <td colspan="2"><h2><asp:Localize runat="server" Text="©© Resources:stringsRes, pge_Login_Title"></asp:Localize></h2></td>
                    </tr>
                    <tr>
                        <td></td>
                        <td class="error"><asp:Localize ID="FailureText" runat="server" EnableViewState="False"></asp:Localize></td>
                    </tr>
                    <tr>
                        <td></td>
                        <td><asp:RequiredFieldValidator ID="UserNameRequired" runat="server" ControlToValidate="UserName" ErrorMessage="©© Resources:stringsRes, pge_Login_UserNameRequired" ToolTip="©© Resources:stringsRes, pge_Login_UserNameRequired" ValidationGroup="Login1" Display="dynamic" />
</td>
</tr>
</table>
</div>
</asp:Login>
</asp:Content>
```
Figure 19: Login Validation Code
## Appendix B

### Project Timeline

<table>
<thead>
<tr>
<th>ID</th>
<th>Task Name</th>
<th>Start</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RESEARCH</td>
<td>10/1/2007</td>
<td>2/29/2008</td>
</tr>
<tr>
<td>7</td>
<td>DESIGN: MAPPING(S)</td>
<td>3/10/2008</td>
<td>3/17/2008</td>
</tr>
<tr>
<td>10</td>
<td>TESTING</td>
<td>11/10/2008</td>
<td>3/17/2008</td>
</tr>
<tr>
<td>15</td>
<td>FINAL REPORT</td>
<td>5/1/2008</td>
<td>5/30/2008</td>
</tr>
<tr>
<td>16</td>
<td>PRESENT PROJECT (TECH EXPO)</td>
<td>5/22/2008</td>
<td>5/22/2008</td>
</tr>
</tbody>
</table>

Figure 20: Project Timeline
Appendix C

Other Random Code Snippets

C.1 Google Maps Easy Control Snippet

As stated above, easy controls are custom web user controls that can be created in Visual Studio. They are very easy to customize for the user. Below, I have shown the code for the Google Maps easy control I created.

```csharp
using System;
using System.Data;
using System.Configuration;
using System.Collections;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Web.UI.WebControls.WebParts;
using System.Web.UI.HtmlControls;

public partial class EasyControls_GoogleMap : System.Web.UI.UserControl
{
    protected string _script;
    private string _address = "4727 Red Bank Road";
    private string _city = "Cincinnati OH";
    private string _country = "US";
    private int _width = 800;
    private int _height = 500;

    protected void Page_Load(object sender, EventArgs e)
    {
        string strLocation;
        strLocation = _address + "," + _city + "," + _country;
        _script = "<script src=\"http://gmodules.com/ig/ifr?url=http://ralph.feedback.googlepages.com/googlemap.xml\&amp;up_locname=Google\&amp;up_loc=\" + Server.UrlEncode(strLocation) + ";amp;up_zoom=Street\&amp;up_view=Map\&amp;synd=open&amp;w=\" + _width.ToString() + "\&amp;h=\" + _height.ToString() + "\&amp;title=\&amp;border=\%23FFFF\%7C3px\%2C1px\%0A\%2399999999\&amp;output=js\"></script>";
    }
}
```

Figure 21: Google Maps Easy Control Code
C.2 Page Layout CSS Snippet

The page layout defines the main title image, the sizing, the color of the background and many other things as you will see in the snippet below. This CSS is also what defines the theme. Instead of changing the CSS here, the Aikido can always just create a new theme with a new CSS as well.

```css
div#head {
  position: relative;
  top: 0;
  left: 0;
  height: 173px;
  width: 100%;
  margin-bottom: 26px;
  border-bottom: solid 1px #663200;
  background: #FFFFFF url(images/header_bg_new.jpg) repeat-x top left;
}

div.titleBG {
  background: #FFFFFF url(images/header.jpg) no-repeat top left;
  height: 173px;
  width: 718px;
}

div#websiteTitle {
  position: absolute;
  top: 135px;
  left: 85px;
  color: #000000;
  font-size: 28px;
  font-family: Comic Sans MS;
}

div#utilities {
  position: absolute;
  top: 4px;
  right: 26px;
}

div#utilities a {
  color: #ffffff;
  text-decoration: none;
  text-transform: uppercase;
}
```
C.3 How the Pages are Created Snippet

Below you will see a small snippet of how the pages are actually created using the CMS. There are other aspects that go along with this snippet as well.

```csharp
using System;
using System.Collections.Generic;

namespace Aoc_Website
{
    /// <summary>
    /// This class encapsulates the logic and properties of a single page
    /// </summary>
    [Serializable]
    public class WebPage : Persistable<WebPage.WebPageData>
    {
        private string _pageId;
        /// <summary>
        /// Create a WebPage for a given id
        /// </summary>
        /// <param name="id">Guid of the WebPage to create as string</param>
    }
```
public WebPage(string id)
{
    _pageId = id;
    LoadData();
}

///<summary>
///<Creates a new empty WebPage and generates a new guid for it
///<</summary>
public WebPage() : base()
{
    _pageId = Guid.NewGuid().ToString();
}

///<summary>
///<Guid of the WebPage as string
///<</summary>
public string PageId
{
    get { return _pageId; }
}

///<summary>
///<Text of the navigation-node for this WebPage
///<</summary>
public string NavigationName
{
    get { return _data.NavigationName; }
    set { _data.NavigationName = value; }
}

Figure 23: Page Creation Code Snippet

C.4 Flash Gallery XML ActionScript Snippet

The Flash Image Gallery was created using Flash and it pulls from an external XML source. Therefore, there was some ActionScript code that was required within the .FLA file itself. Below you will see a chunk of the ActionScript that pulls the XML file in.

stop();

// include assets
#include "mcTween2.as"
#include "xml.as"
#include "time.as"

// two views ? catView : thumbView
var viewMode = "catView"; // when page is first viewed show all the
categories.

```javascript
var viewRand = true; // on/off random preview
var catCol = 4; // number of columns for category
var numCatDisplay = 12; // max number of categories to show per page
var numThumbDisplay = 12; // max number of thumbnails to show per page
var catColXgap = 8; // gap between categories
var catColYgap = 180;
var dropDown = false;

var curImage = 0;
var curCat = 0;

// slideshow switch
var autoSlide = true;
// default transition speed
var defTranSpeed = 300;

catView_btn._alpha = 0;

// load the xml data
gallery = new XMLSA();
gallery.load("gallery.xml");
gallery.onLoad = function(ok){
    if (ok) {
        parseXml();
    } else {
        // error branch
        trace("error");
    }
}

function parseXml(){

Figure 24: Flash Gallery XML ActionScript Snippet
References:


3. Fritz, Jenn. Board Member of Aikido of Cincinnati. Personal interview. 9 October 2007.

