

# North Shore Choral Society Web Site – Implementation

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## **Abstract**

This paper documents the design and the development process for the North Shore Choral Society Web Site. It includes references to existing software that was used in the construction of the site.

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## North Shore Choral Society Web Site – Implementation

### Proposal

#### Summary

The North Shore Choral Society (NSCS) maintains a Web Site that informs the public about the nature of our organization, and provides information about upcoming performances. The site also contains information about past performances and a short page of information for organization members. The site address is [www.northshorechoral.org](http://www.northshorechoral.org) and the North Suburban Library Network hosts it at no charge to the North Shore Choral Society.

My project uses Dreamweaver and Cascading Style Sheets to change the design of the existing North Shore Choral Society Web Site so that it now has the basic context and navigation features expected on a Web Site and so that there is a consistent appearance across the entire site.

I selected this project because I am the volunteer maintainer of this Web Site and the work involved in this project is work that I have been planning to do “as soon as time is available”. This course caused the time to become available.

#### Detailed Outline

##### I. Home Page (index.html) (Lab 3)

- Graphics: NSCS Logo. This Logo appears in the same spot on every page
- Navigation buttons appear at the same place on all pages

##### II. About (about.html)

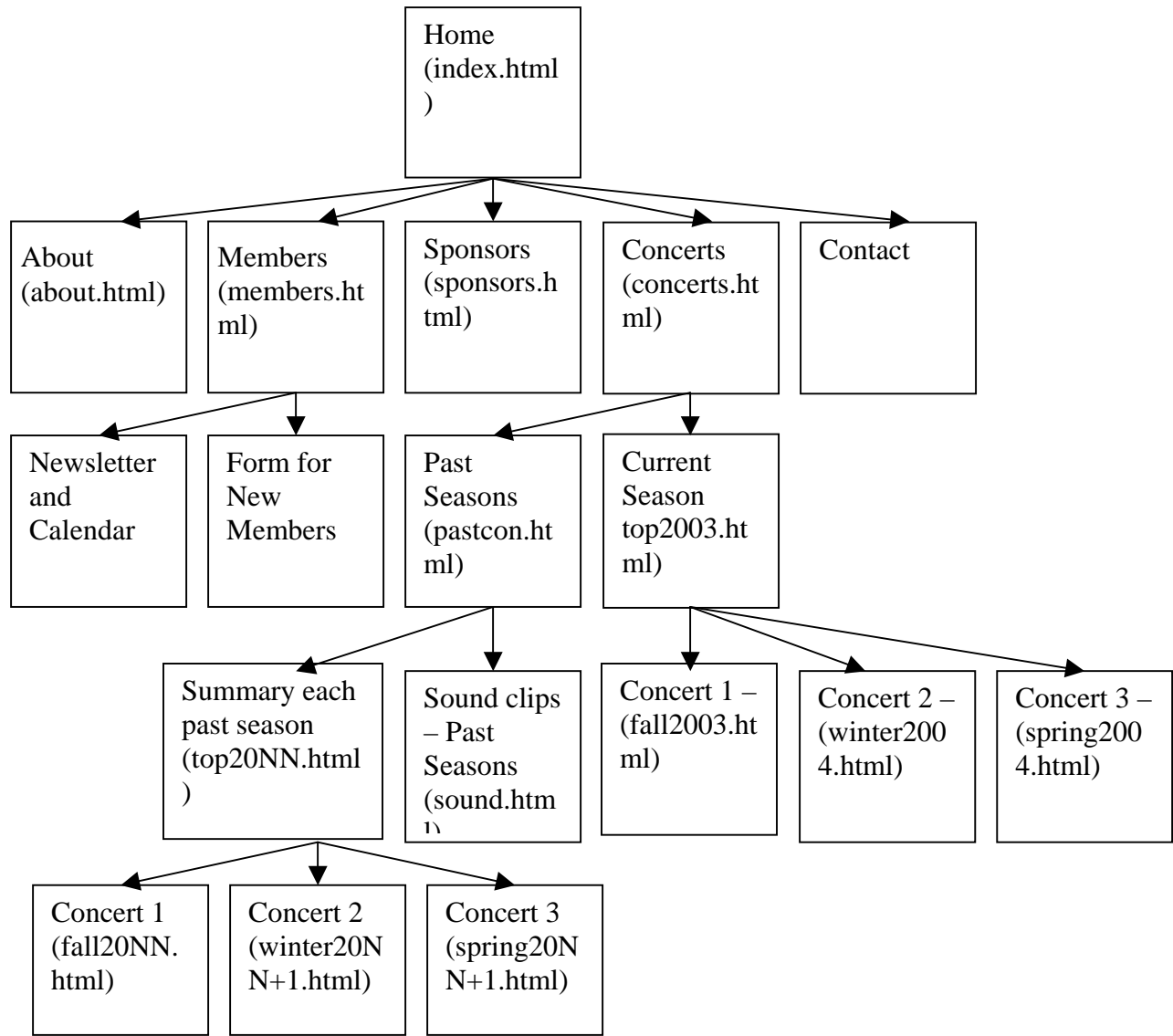
- A. The Society (internal link from near top of page)
  - a. Picture of the group
- B. The Director (internal link from near top of page)
  - a. Picture of the Director
- C. The Accompanist (internal link from near top of page)
  - a. Picture of the pianist

##### III. Member’s Page (members.html) (Lab 6 – hit counter) (no graphics planned on this page)

- A. Messages to members
- B. Link to external calendar  
([http://www.northstarnet.org/main/calview.asp?nsn\\_id=843&View=Month](http://www.northstarnet.org/main/calview.asp?nsn_id=843&View=Month))
- C. Hit counter to measure how often members visit the page
- D. Link to current newsletter (Publications/NSCSnewsletterAugust2003.pdf)
- E. Link to New Member Page (Newmem.html) (Lab 4 and Lab 5).  
This will gather the new members address and telephone information

##### IV. Sponsor’s Page (sponsors.html)

- A. Information on sponsoring the North Shore Choral Society
  - B. Table showing different sponsorship levels (format of existing page can be greatly improved)
  - C. No graphics are planned
- V. Concerts (concerts.html)
- A. General information about concerts (no graphics planned)
  - B. Link to current season (seasons/03-04/top2003.html)
    - 1. Summary of the three concerts for this season
      - a. Small graphic images of composers for some composers
    - 2. Links to detailed notes on each concert
      - a. First concert (seasons/03-04/fall2003.html)
      - b. Second concert (seasons/03-04/winter2004.html)
      - c. Third concert (seasons/03-04/spring2004.html)
  - C. Link to past seasons summary (pastcon.html) (no graphics currently planned)
    - 1. A list of all past seasons with links to each season summary and Ravinia
    - 2. Example season summary link (seasons/NN-NN+1/top20NN.html)
  - D. Ticket information (currently on tickets.html)
    - 1. Graphic icons for credit cards
- VI. Contact (no graphics)
- A. List phone number and email where NSCS can be reached
  - B. Include mailto: link to the Executive Director's email



**Figure 1 Graphic Outline of Web Site**

**THIS PAGE IS MUCH NARROWER THAN IT WOULD APPEAR IN A BROWSER. TO SEE A WIDER VERSION, LOAD THE FILE HOMEPAGE.MHT INTO INTERNET EXPLORER.**


	North Shore Choral Society
<ul style="list-style-type: none"> <li><a href="#">Home</a></li> <li><a href="#">Concerts</a></li> <li><a href="#">Tickets</a></li> <li><a href="#">Sponsors</a></li> <li><a href="#">Members</a></li> <li><a href="#">New Members</a></li> <li><a href="#">About us</a></li> <li><a href="#">Contact Us</a></li> </ul>	<p>The North Shore Choral Society explores, studies, and performs a wide range of choral music for the enrichment and enjoyment of its singers and audiences.</p> <p>The NSCS is a community chorus which has served this area for over sixty years, giving many hundreds of nonprofessional singers the opportunity to perform choral masterworks, both old and new. The chorus has performed at Ravinia with the Ravinia Festival Orchestra. The Society features outstanding soloists, and some of the area's finest musicians play in the orchestras engaged for the performances. We are listed on the Classical Studio Web Site.</p>
	<p>All pages will look like this one. Navigation links will be repeated at the bottom of the page on long pages.</p>
Copyright Executive Director Name Executive Director Phone Number	

Figure 2 Storyboard

## **Development Process**

### ***Resources used***

Dreamweaver MX from Macromedia was used to build the site. In order to use Dreamweaver effectively, I referenced Dreamweaver MX H\*O\*T Hands-One Training frequently. (Green and Rudner, 2003). Before designing the overall navigation approach, I visited several sites of other volunteer music organizations in the Chicago area. The most useful of these are shown in Appendix A.

Anthony Green and Ellen Pullin of the North Shore Choral Society provided feedback on the overall format of the site. Validation of the new member form is performed interactively using the application FormChek (Netscape Developer Site, 2003). The text scrolling on the home page is implemented using the Java Applet Ascroll2 (Dagli, 2003).

### ***Problems Encountered***

I selected a text scrolling Java Applet from a small vendor. In addition to displaying the scrolling text, this application displays an “annoying” pop-up window until you pay a small registration fee. It took one week and several phone calls to successfully pay this fee because the credit card processing on the vendor web site was not working. At the end of the week, I did receive a registration code and was able to eliminate the “annoying” window.

The existing Web Site used frames to display concerts from past seasons. I eliminated frames by using a jump menu on the home page to select which past season to display. I also allowed an option of “all” to display the index of all past concerts that was available in the frames environment.

I attempted to install a mail processing cgi script to process the output of my New Member html form.

### ***Lessons Learned***

I have coded Web Pages directly in HTML in the past. Dreamweaver is MUCH more productive. When I moved an existing page to a different subdirectory, it was a pleasure to watch Dreamweaver automatically updated all the pages that referred to the moved page.

I have learned how the different components of Enterprise Systems Architecture Interact. If something on a Web Page is not working, I am confident I know how to examine HTML,

JavaScript, Style Sheets, and Java Applets and the relationships between these components in order to locate the problem.

I learned that you must know local server details about the path to the sendmail program, the SMTP mail server to be used, and details of any anti-spam controls on the web server if you are going to successfully send email using cgi scripts. I have located this information for the server on which the North Shore Choral Society runs and have attached it in Appendix B. A related lesson learned is that if I had started working forms-based email one month ago when it was first suggested, I would have had time to work out the problems that I encountered with the Lab Assistants at Capella. On the positive side, I will go through this on only one server instead of both the Capella server now and the Northstar Net server later.

I learned that I should have used better software configuration management practices even on a project this small. After completing the JavaScript Lab on my New Member form, I managed to wipe out the entire HEAD area of the form when I applied my Dreamweaver formatting template to the form. Unfortunately the HEAD area includes all JavaScript code. Had I saved a copy of the form after completing the Lab, I would not have had to redo the work as part of this project.

I have also learned that I should concentrate on database design and logic development in database stored procedures, Java Applets and JavaScript. My artistic skills did not improve in this course although I did learn how to use tables to improve the layout of a Web Page. Still, I find it much easier to create and debug logic than to create images and line up items on a page. As support for my debugging assertion, I even enjoyed discovering what happens when you place a the Windows Executable version of software for processing HTML forms onto a Unix server, (The Internet Explorer on the client machine downloads it to the client PC and attempts to run it.)

## References

1. Dagli, Gokhan. (2003). Advanced Text Scrolling Application retrieved December 1, 2003 from <http://www.appletcollection.com/ascroll>.
2. Evanston Symphony. (2003). Evanston Symphony Home Page, and all pages linked to the Home Page retrieved August 16, 2003 from <http://www.evanstonsymphony.org>.
3. Green, Caro and Rudner, Abigail (2003). *Dreamweaver MX H\*O\*T Hands-On Training*. Berkeley, Ca: Peachpit Press
4. Netscape Developer Site (2003). FromChek application retrieved November 14, 2003 from <http://developer.netscape.com/docs/examples/javascript/formval/FormChek.js>.
5. Northstar Net (2003). CGI processing information retrieved December 22, 2003 from <http://kb.northstarnet.org/faqDspItem.asp?faqid=74>.
6. Savoy-Aires. (2003). Savoy-Aires Home page and all pages linked to the home page retrieved on August 16, 2003 from <http://www.savoyaires.org>.

## Appendix A – Web Sites Visited

I visited sites of other volunteer music organizations in the Chicago area to see the approach that they used for navigation. I decided to use navigation links on the left side of each page after visiting the sites shown below.

**Evanston Symphony Orchestra**  
Lawrence Eckerling, Music Director

**Community Orchestra of the Year!**

The Evanston Symphony Orchestra has been named Community Orchestra of the Year for 2003 by the Illinois Council of Orchestras.

"We are absolutely delighted," said ESO Board President Kelly Brest van Kempen. "While the ESO has previously received awards from the Council for our conductor, our marketing and our community outreach programs, this is the first time that we have been given the ICO's highest award. It is especially gratifying that it comes in the midst of our rebuilding efforts."

The award was formally presented to the orchestra at the March 16, 2003, concert.

**Meet Lawrence Eckerling, the ESO's New Music Director**

It is with great pleasure that the Evanston Symphony Orchestra proudly presents our new music director and conductor, Lawrence Eckerling. Music became his passion at age 6 and has remained so throughout his life. For Lawrence, the natural expression of this passion was to become a music director and conductor. And, the rest is history.

"I am thrilled to have been invited to lead Evanston's very own symphony as they enter a new era. I look forward to working with ESO's dedicated musicians and board members and to presenting enjoyable and rewarding concerts for their audience."

**Interested in Joining the ESO?**

Are you an amateur musician who wants to perform

**2003-2004 Subscription Series**

**November 9, 2003**  
"Gala Opening Concert"

**Wagner**  
Prelude to "Die Meistersinger"

**Grieg**  
Piano Concerto in A Minor  
*Graham Scott, Piano*

**Beethoven**  
Symphony No. 5 in C Minor

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**January 18, 2004**  
"Play Me a Picture, Paint Me a Tune"

**Falla**  
Three Dances from "The Three Cornered Hat"

**Mendelssohn**  
Violin Concerto in E Minor  
*Nicolas Kendall, Violin*

**Shostakovich**  
Symphony No. 5 in D Minor

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**March 28, 2004**  
"Something Old, Something New"

**Mozart**  
Symphony No. 38, "Prague"


**Foss**  
Renaissance Concerto for Flute and Orchestra  
*Linda Chatterton, Flute*

**Rimsky-Korsakov**  
Scheherazade

Figure 3 Evanston Symphony Home Page (Evanston Symphony, 2003)

Figure 4 Savoy-aires Home Page (Savoy-aires, 2003)

Savoy-aires -- Home Page 1 of 2



[Home](#)

[News](#)

[History](#)

[Photos](#)


[Tickets](#)

[Auditions](#)

[Links](#)

# Savoy-aires!

*Bringing Gilbert & Sullivan to the North Shore since 1963*



*From the Savoy-aires 2000 Production of The Mikado*

[2003 Production](#)


## H.M.S. Pinafore

Friday and Saturday, October 17-18, 7:30 p.m.  
Sunday, October 19, 3 p.m.  
Friday and Saturday, October 24-25, 7:30 p.m.  
Sunday, October 26, 3 p.m.

**Stage Director: Martha Adrienne**  
**Music Director: Daniel Robinson**  
**Choreographer: Pamela Sue Fox**  
**Executive Producer: Lillas Circle**

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The Savoy-aires  
P.O. Box 126  
Evanston, IL 60204  
E-mail: [savoyaires@comcast.net](mailto:savoyaires@comcast.net)  
Phone: (847) 328-1048



<http://www.savoyaires.org/>
8/16/2003

## Appendix B – CGI Mail Processing on Northstar Net Server

***I'm trying to use "sendmail" to send a response from a form and it's not working the way my book/class/programmer/experience indicates it should.***

The path to sendmail on the NSN server is:

```
/usr/sbin/sendmail
```

Many cgi/perl books or classes may tell you to setup up a mail header which would look something like this:

```
/open(MAIL,"|$mailprog -t");  
print MAIL "To: $myemail\n";  
print MAIL "From: $formemail\n";  
print MAIL "Subject: WWW Form Submission\n\n";
```

Due to anti-SPAM software and its e-mail configuration, the NorthStarNet server will reject this mail. You will need to write your script like this:

```
open(MAIL,"|$mailprog $myemail");  
print MAIL "From: $formemail\n";  
print MAIL "Subject: WWW Form Submission\n\n";
```

You will notice that there is no "To:" and the \$myemail variable has been moved to the first line containing the "open" command