

Dynamic Reservation Web Site

By

Tina Vaske

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Dedication

"All glory comes from daring to begin."
~Eugene F. Ware

I would like to dedicate this project to my parents and grandparents, who have continually encouraged me since my youth to go further in school. Thank you for your ever-present support!

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Abstract

The purpose of this project is to provide an online reservation Web site for a small company, Karing Enterprises, Inc., which has only one employee and needed assistance with scheduling appointments and providing information to customers. The Dynamic Reservation Web Site has been developed in such a way that customers are able to view a calendar online, register himself/herself as a customer, and schedule future appointments. The customers can also view any desired information about Karing Enterprises, Inc. The project also incorporates a database containing all of the registered customer information and future appointment information.

Dynamic Reservation Web Site

1. Statement of Need

In today's world, one of the most important things that we can do to achieve success and happiness is to manage time well. With technology bombarding each of us with message after message in phone calls, e-mails, Internet sites and television, along with our demanding careers and lifestyles, we hardly have any time for anything any more (3). Therefore, there is a great need to pay attention to how we spend our time daily and to do our best to maximize our productive time or our time spent working to accomplish things that need to be completed.

I am addressing the issue of time management in this project. This project is being produced for a company called Karing Enterprises, Inc. The owner of this company, Karen Vaske, is the sole employee as well. She is responsible for completing all of the tasks of the company on her own. In addition, Karen has a part time job at a different company. She does not have the time to do every thing for her company, which mainly involves retrieving messages from her voice mail and returning phone calls. These phone calls involve: information on what she does, scheduling lectures for groups of ten people, scheduling personal reading for individuals, giving directions to her house, getting directions to hostess' houses, canceling lectures and readings, providing rules for lectures, and confirming appointments (11). These phone calls are all extensive and time consuming.

The goal of this project is to cut down on the number of phone calls Karen has to make on a daily basis for the usual and repetitive things as mentioned above. I decided

the best way to do this was to create a Web site of Karen's customers to access. This decision was based on the wide Internet availability for people today. This Web site could then be used to develop an online reservation system, integrate with a database, and provide information for people about Karen's company. When deployed, this project will create more time for Karen to concentrate on accounting and her personal life.

As an added note, this project will not affect the amount of Karen's business due to losing the personal interaction of the phone calls. This is mostly due to the fact that Karen's entire business is the result of how she touches people's lives on a person-to-person basis. She does not need to speak to people over the phone to keep her business prosperous. Her lectures and readings are definitely powerful enough. Besides this personal interaction, I have designed this Web site with a very personal and informal feel to it. This was very important to do because of the very personal nature of Karen's business.

2. Supporting Resources

It is clear to almost every one that the Internet is widely used now. Since 1993, Internet use has soared higher and higher. It is now extremely high with about 69% percent at least of the United States population from ages ten and older in September of 2000 logging on to the Internet at home and at work (7), (10). This numbers keeps growing daily. This is definitely due to the sinking prices and availability of home personal computers. According to one survey, there were 34 million units of personal computers shipped in September of 2000. It also stated that sales were up 18.3% from last year (1). It is also due to the cheap, fast Internet connection costs, which keep getting faster and cheaper. A user can get regular Internet connection for only \$19.95 a month (12).

It is this wide use of the Internet that makes this Web project such a good idea. Since 69% of the population that Karen works with now has Internet access, this project is an excellent tool for Karen to use to decrease wasted time. Also, most users use the Internet for e-mail and personal reasons (5, p. 404-406). It is exactly personal reasons that draw people to Karen and that will draw them to this Web site. So, if 69% of her clientele use the Internet, it could possibly cut down on 69% of her phone calls. Of course, the other 31% of non-Internet users will still be calling her. She will also still get miscellaneous calls concerning extraordinary circumstances. I do think that in the long run it is safe to estimate that at least 40% of her daily phone calls will be reduced. Karen has stated, "Even a 20% reduction would be wonderful to me. It sounds like a great solution for people, instead of waiting three weeks for me to return his/her phone call or playing phone tag with me." (11)

3. Product Description

3.1 User Profile

The users for this project include just about everyone since it will be on the Internet. I can narrow it down to two groups of people. The first group of users consists of people who have already attended Karen's lectures or individual sessions. It will also consist of people who know Karen and already know about her business. This group will already have a working knowledge of Karen's services. They will be using this site for scheduling appointments and extra information, such as directions to Karen's house. I cannot estimate how much computer experience this group, but I am assuming they have some computer knowledge if they plan on visiting this site on the Internet.

The second group of people is those who are interested in the subject of angels and navigate to the site from a search engine. This is most likely to be people of twelve years of age and older. The group obviously consists of people who have some computer knowledge, because they are using the Internet to reach the site.

Both groups of users incorporate almost everyone with varying levels of education and background life experiences. On average, Karen's clients have consisted of 90% women between the ages of 16 and 75. The remainder of her clients has consisted of men from the same age range. Therefore, this site is designed with feminine characteristics and graphics dealing with the subject matter of angels. Also, navigation between various pages has been made as easy as possible for the users with little computer experience.

3.2 Design Protocols

This site includes eighteen individual pages including both HTML and Active Server Pages. The layout for these is seen here:

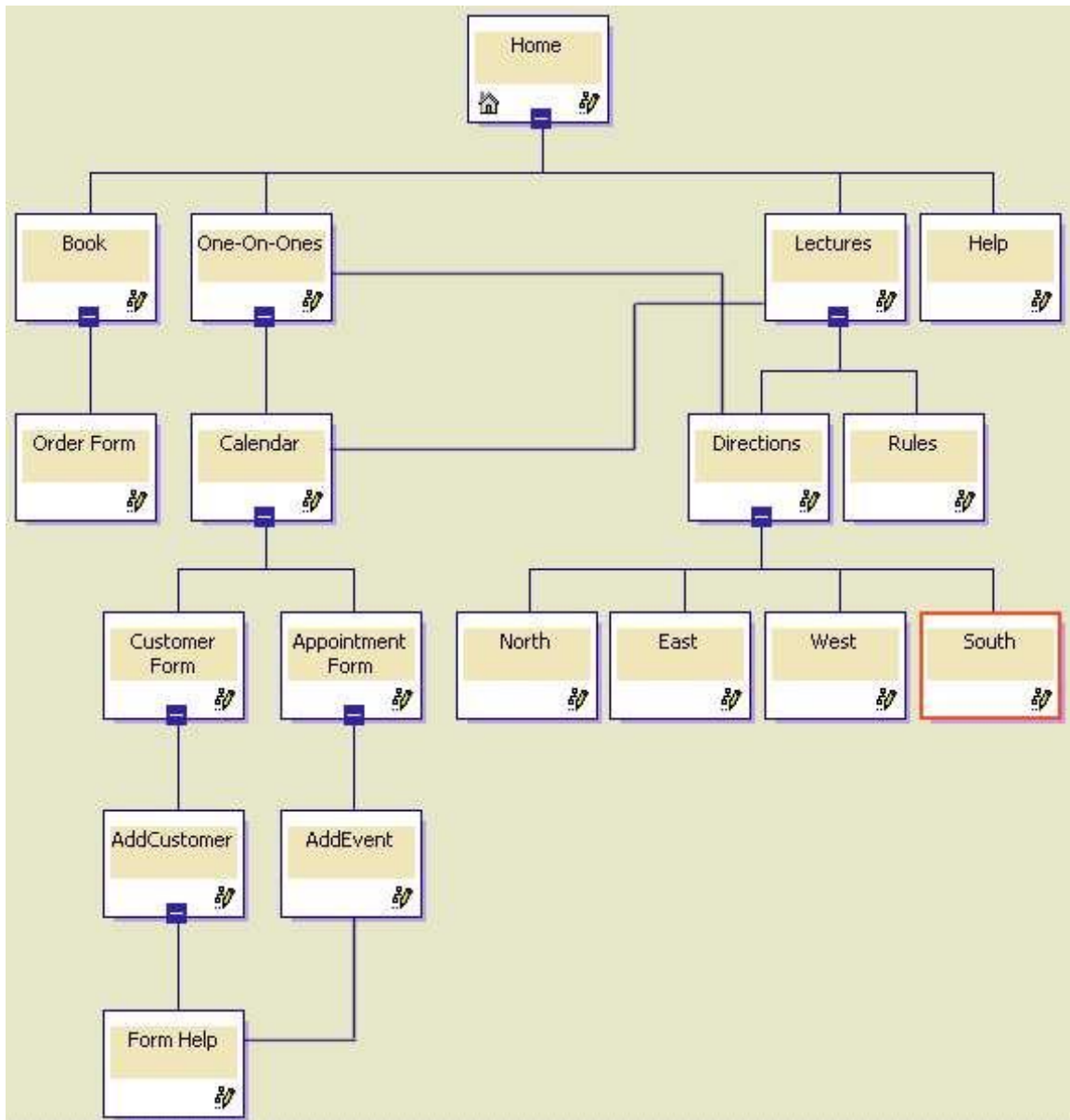


Figure 1. Site Layout

Here is a brief description of each page:

- The “Home” page consists of information about Karen and her life.
- The “Lectures” page consists of information about what Karen’s lectures are about, including price and times. Its child pages are the “Rules,” “Directions,” and “Calendar” pages.
- The “Book” page contains information about Karen’s book, including contents and price. Its child page is the “OrderForm” page.
- The “One-On-Ones” page contains information about Karen’s individual sessions, including price, description, and times. Its child pages are the “Directions” and “Calendar” pages.
- The main “Help” page contains information about basic items on the pages and navigation details.
- The “Directions” page contains a map of the general Cincinnati area with Karen’s house pinpointed in purple. It also contains links to separate child pages, the “North”, “South”, “East”, and “West” pages. It also has a link to the “Calendar” page.
- The “Rules” page consists of the “Dos and Don’ts” for the hosts of Karen’s lectures and links to the “Calendar” and “Directions” pages.
- The “Calendar” page contains Karen’s calendar and appointment information for the next three years with a link to register as a new customer or to schedule an appointment, if you are already a customer.
- The “Order Form” page is a printable order form for the user, if he/she desires to purchase Karen’s book, “The Giggles.”
- The “Form Help” page contains information on the “Customer Form” and “Appointment Form” pages to help with form requirements.
- The “Customer Form” page is an Active Server Page. It consists of a form for the user to enter his/her personal information.
- The “AddCustomer” page is an Active Server Page. It consists of a “Thank You” note as well as information from the customer form, which was entered into the database. It has links for the “Calendar” and “Directions” pages

- The “Appointment Form” page is an Active Server Page. It consists of a form for the user to enter his/her customer identification number as well as appointment request.
- The “AddEvent” page is an Active Server Page. It consists of a “Thank You” note with your name as well as your appointment request from the appointment form, which was entered in to the database. It has links for the “Calendar” and “Directions” pages.
- The “North” page contains a detailed map and written directions from to Karen’s house from the North. It also contains links to the “Directions” and “Calendar” pages.
- The “South” page contains a detailed map and written directions from to Karen’s house from the South. It also contains links to the “Directions” and “Calendar” pages.
- The “East” page contains a detailed map and written directions from to Karen’s house from the East. It also contains links to the “Directions” and “Calendar” pages.
- The “West” page contains a detailed map and written directions from to Karen’s house from the West. It also contains links to the “Directions” and “Calendar” pages.

As can be seen in the site layout, the all of the calendar and directions pages are used twice, once under the “Lectures” page and also under the “On-One-Ones” page. Therefore, navigation that is easy to find and to follow is a must. The navigation is simple with an image map connecting to any relevant pages. It appears at the top of the page in the same place on every page and always includes all of the main pages. It consists of text only in a deep magenta font. The page that the user is on is highlighted for them, if they are on the main pages. All of the main pages have links on the left hand side to every page in the project, except the four specific direction pages. These side links are listed in the proper hierarchy according to main and child page relationships and relevancy.

I also have an image on the top of each page from Karen's book. This allows the user to know that they are still in Karen's site and to promote the book. The color scheme also helps with this. I have gone with a light purple background for the main pages with white font. All child pages have a white background with pastel fonts, mainly fuchsia. The user is also able to open the main Help page, if he/she gets lost at any point within the site. All pages feature a copyright at the bottom of the page with a link to my e-mail address for any comments.

4. Objectives of the Project

The goal of this project is to create and host a Web site through which a user can view Karen's calendar and schedule an appointment, as well as obtain information about Karen and her company. The deliverables and completion objectives for this project are:

- A functional Internet site for the user to schedule appointments and gather necessary information.
- A scalable web application where additional functionality can be added with minor changes.
- A creative user interface designed for easy navigation by the user using image maps.
- An efficient design of Web pages to provide efficient performance when the Active Server Pages are executed and when site traffic is high.
- An effective database design for data relationships, data storage, and future management.
- An automatic e-mailing system to confirm the user's request.
- A dynamic, updateable calendaring system.
- A customer registration system for new customers.

5. Development

5.1. Timeline

The complete timeline for the 9 months of this project is outlined in Figure 2:

September 21- December 14	Develop project, document feasibility and details, and present project documentation	3 months
December 18	Define pages and relationships	1 day
December 19-21	Decide on background and graphics	3 days
December 26 – January 2	Design each page layout, including navigation between pages	1 week
January 3-8	Research books about Web calendaring and reservation systems	5 days
January 9-22	Design calendar system, including database design	2 weeks
January 23-29	Design database for user information	1 week
January 30 – February 5	Develop Interdev project, including connection to database and incorporation of page relationships	1 week
February 6 – February 15	Incorporate Web page design and navigation in HTML code for Interdev project	1.5 weeks
February 16- March 1	Develop VB Script for e-mailing users and finish “Design Freeze” documentation	2 weeks
December 11- March 1	Test prototype	11 weeks
March 2-8	Prepare final presentation for prototype for Senior Design II	6 days
March 22 – April 12	Add text information to all pages as well as any extra graphics	3 weeks
April 13-May 3	Finalize any layout details add any lacking code, test time to open pages, finalize e-mailing system	3 weeks
May 4-24	Add any lacking code, test, add actual data, and prepare final documentation report	4 weeks
March 15 – June 1	Final testing	11 weeks
June 1-7	Prepare final presentation for Senior Design III	6 days

Figure 2. Timeline for Project

5.2. Budget

All of the costs for the project are outlined in Figure 3.

Description	Costs
1. Personal computer	\$899.00
2. Iomega 100MB Zip drive	\$79.90
3. Two Zip disks	\$19.98
4. ASP provider	\$100.00/mo
5. ADSL line/Internet connection	\$39.95/mo
6. Visual Interdev	\$554.50
7. SQL Server	\$499.00
8. Windows NT 4.0	\$809.00
9. DNS registration	\$35.00
TOTAL:	\$3063.33 + \$139.95/mo

Figure 3. Budget for Project

As seen in the table, the total initial cost for the project is \$3036.33. There will be an additional monthly fee of \$139.95. Karing Enterprises, Inc. will provide any funding for this project.

5.3 Required Software and Hardware

The hardware costs include a personal computer with the following features: 64MB RAM, 866MHz processor, a CD-rom drive, a ten GB hard drive, Windows 98, Internet Explorer 5.0, color printer, and a network card (1). I will also need a 100MB Iomega Zip drive (1) and two Zip disks (4). I plan on using an ASP provider called Synergi Network Solutions in Dayton, Ohio to host this project on the Internet from their web server and SQL server, which will include an SQL login and back-end management (2). The cheapest high speed Internet connection is provided through Zoomtown of Cincinnati Bell. It includes an ADSL line, which has a download speed of 768Kbps and an upload speed of 384Kbps. This is much faster than a regular modem line. This service comes with free installation, ADSL modem, and an Ethernet network card, all provided by Cincinnati Bell (5).

The software for this project is a little expensive. It includes Microsoft Visual Interdev and Microsoft SQL Server 2000 Developer/Test Edition. The SQL Server also requires Microsoft's Windows NT 4.0 for the operating system. There will also be a fee to register the domain name (6).

6. Proof of Design

This project is designed to reduce most of Karen's phone calls. This is accomplished by first creating an informational Web site. All of the informational pages are HTML pages. The "Home" page of this site displays information about Karen, including her picture for people to see. This is seen in Figure 4.

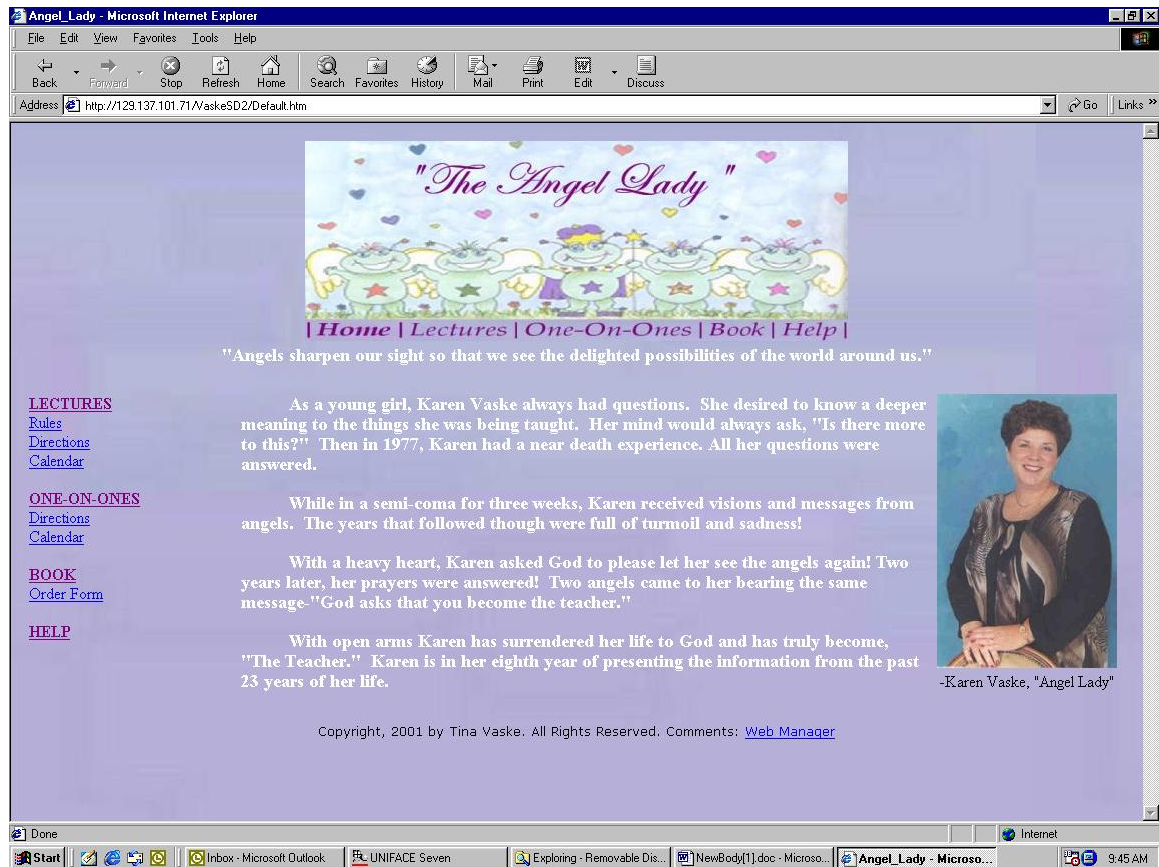


Figure 4. This is the "Home" page (Default.htm)

This page also sets the standard for the site design and layout for the main pages, including the previously discussed color scheme and navigation image map. All of the main pages include a relevant quote underneath the image map. All of the main pages and the child pages include the copyright and the e-mail link for comments at the bottom.

There are four other main pages. These are the “Lectures”, “One-On-Ones”, “Book”, and “Help” pages. The “Lecture” page provides information on what her lectures are about, including description, time and price. This page also features an original hand drawing by Cheri Kervin Jones. It can be seen in Figure 5.



Figure 5. This is the “Lectures” page (Lectures.htm)

The next main page is the “One-On-Ones” page. It contains information on what Karen’s personal readings are about, including a description, examples, times, and price. It features an illustration from Karen’s book. This can be seen in Figure 6.

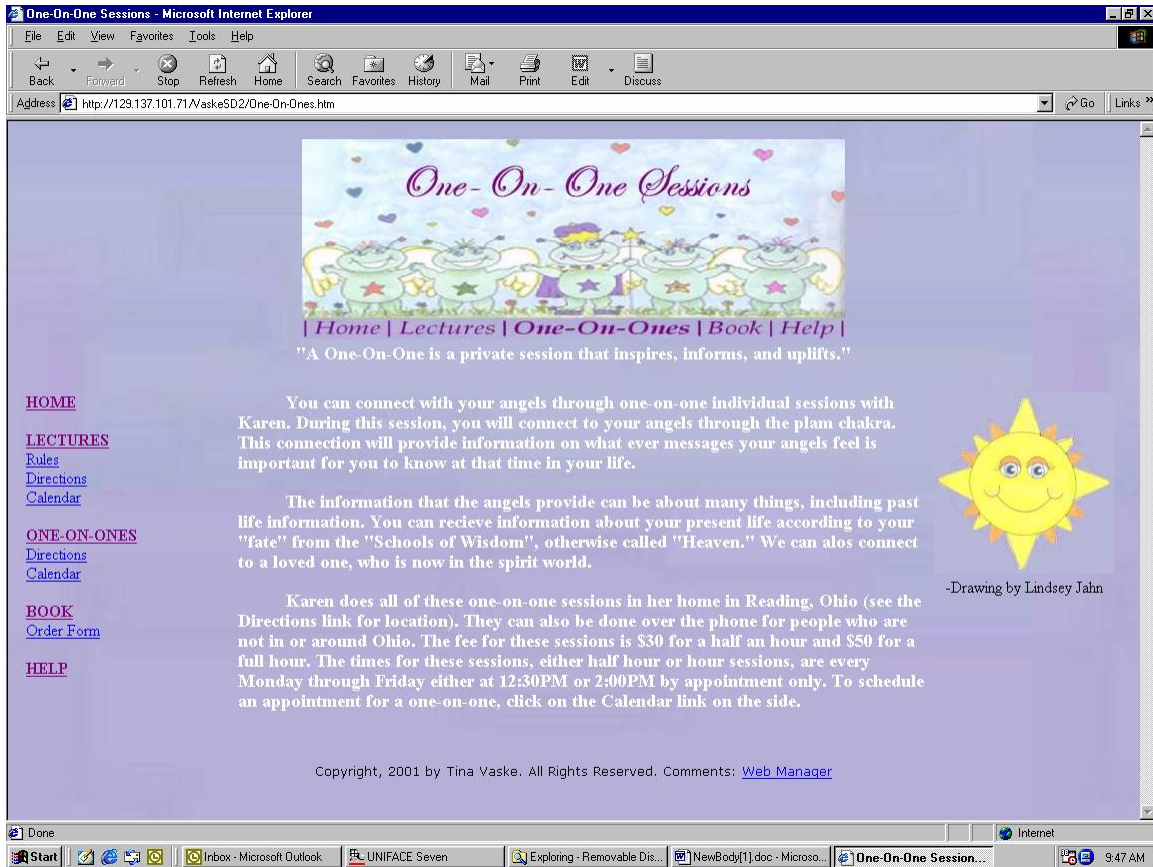


Figure 6. This is the “One-On-Ones” page (One-On-Ones.htm)

The next main page is the “Book” page. It provides information for the user about Karen’s self-published book titled, “The Giggles.” The cover of the book can be seen on the right side of the page. This page can be seen in Figure 7.

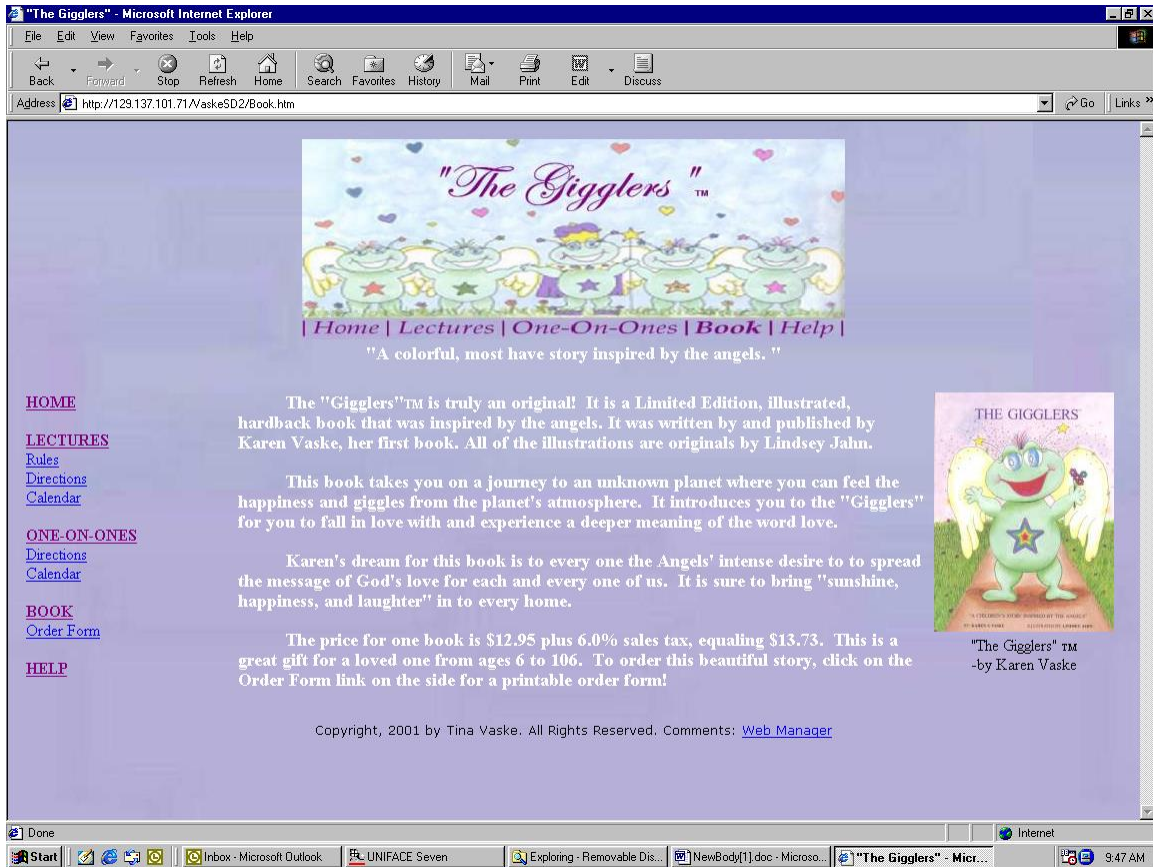


Figure 7. This is the “Book” information page (Book.htm)

The last main page is the main “Help” page. It contains basic information for the user about the site and how to navigate through it. This page can be seen in Figure 8.

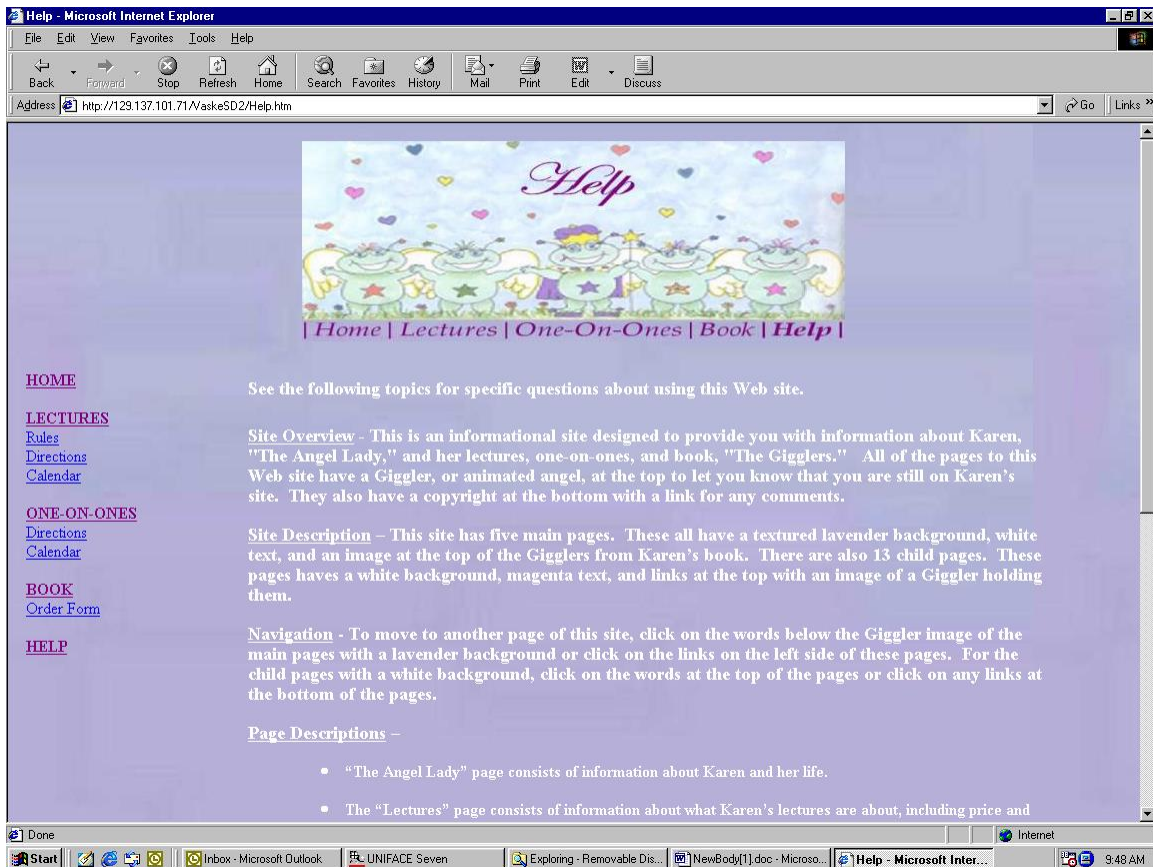


Figure 8. This is the main “Help” page (Help.htm)

There are four other informational HTML pages for this project. They are the “Rules,” “Directions,” “OrderForm,” and “Help2” pages. These are all child page of the main pages.

The “Rules” page provides rules for the hosts/hostesses of Karen’s lectures on how to prepare for a lecture. It is a child of the “Lectures” page. This page can be seen in Figure 9.

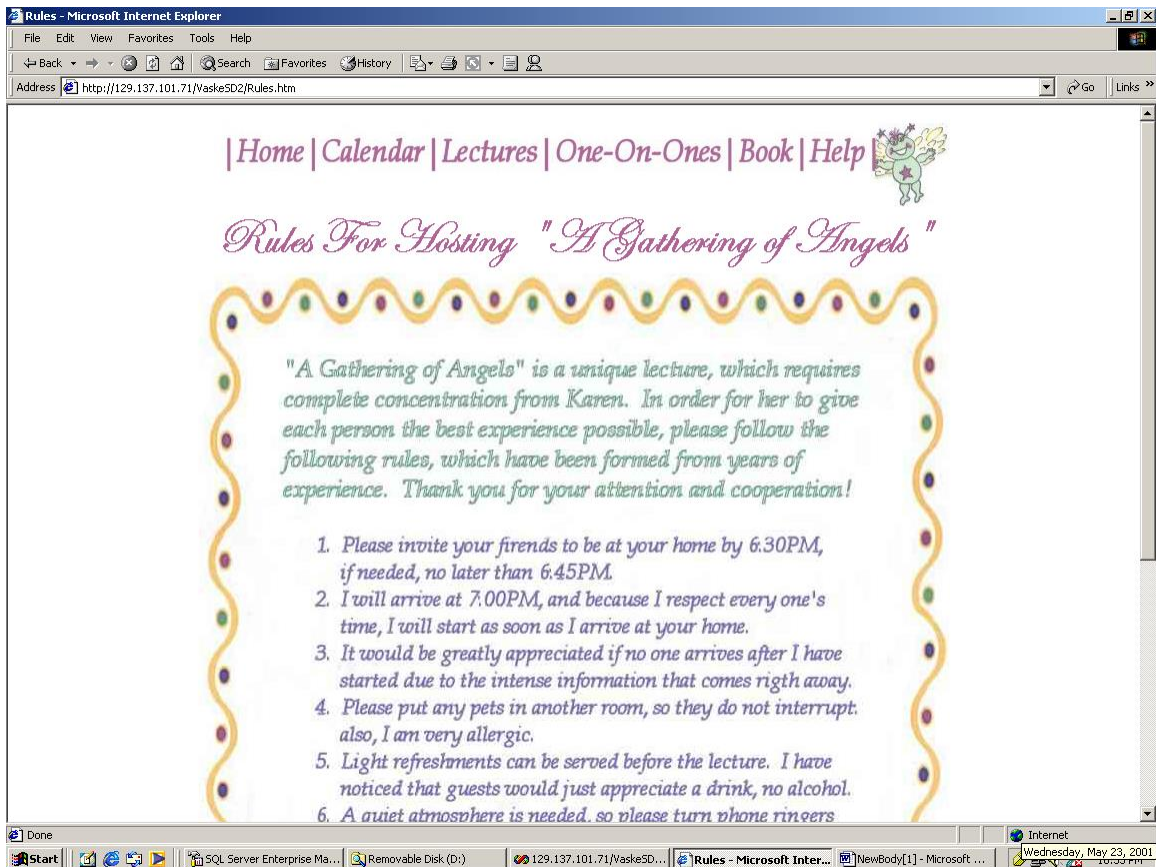


Figure 9. This is the lecture “Rules” page (Rules.htm)

The next page is the “Directions” page. It is to be used to give users directions to Karen’s house. It contains a map of the Greater Cincinnati area with a purple mark where Karen lives. It also contains links to four other pages, the “North,” “South,” “East,” and “West” pages. It is a child of the “Lectures” page. This page can be seen in Figure 10.

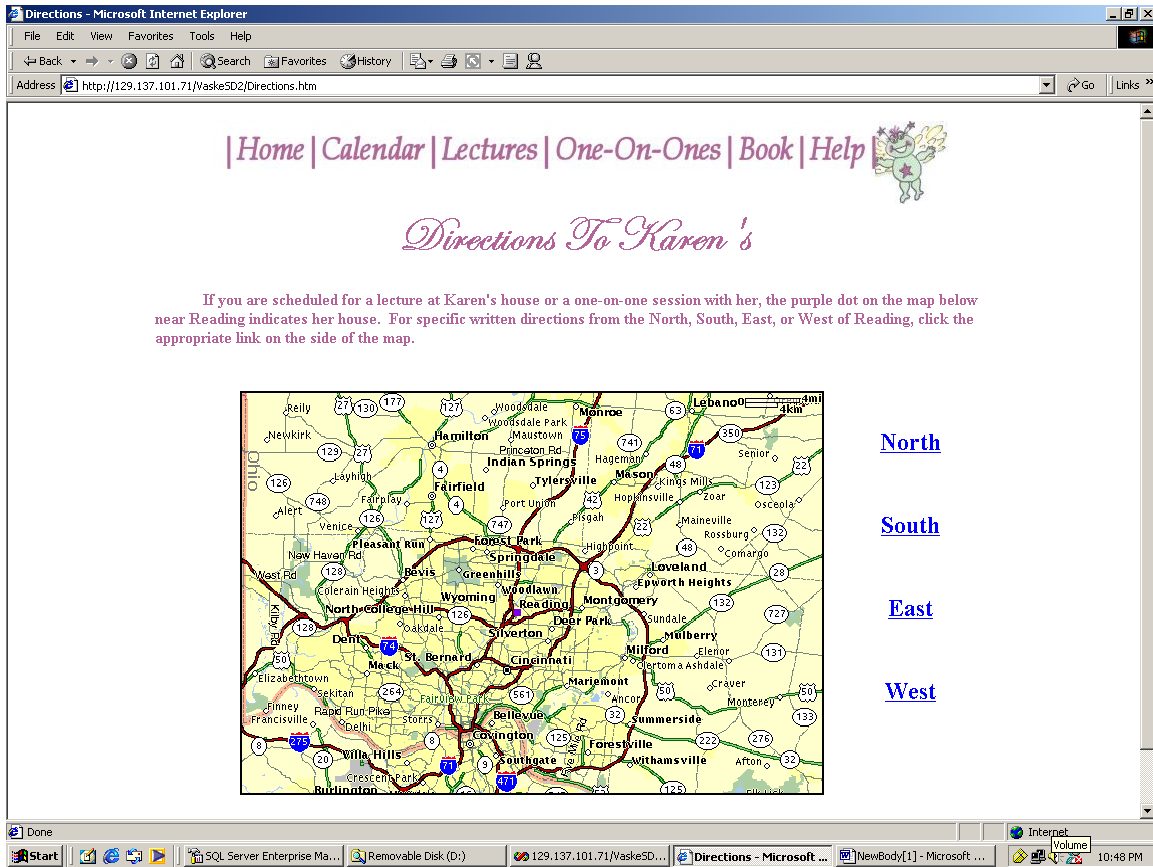


Figure 10. This is the “Directions” page (Directions.htm)

The “North,” “South,” “East,” and “West” pages are exactly alike except for the information that they contain. They are all HTML pages. These pages contain written directions from any direction, north, south, east, and west, to Karen’s house. They also contain a more detailed map than on the “Directions” page. These pages can only be reached from the “Directions” page to keep the main navigation easier for the user. An example of these pages is the “North” page seen in Figure 11.

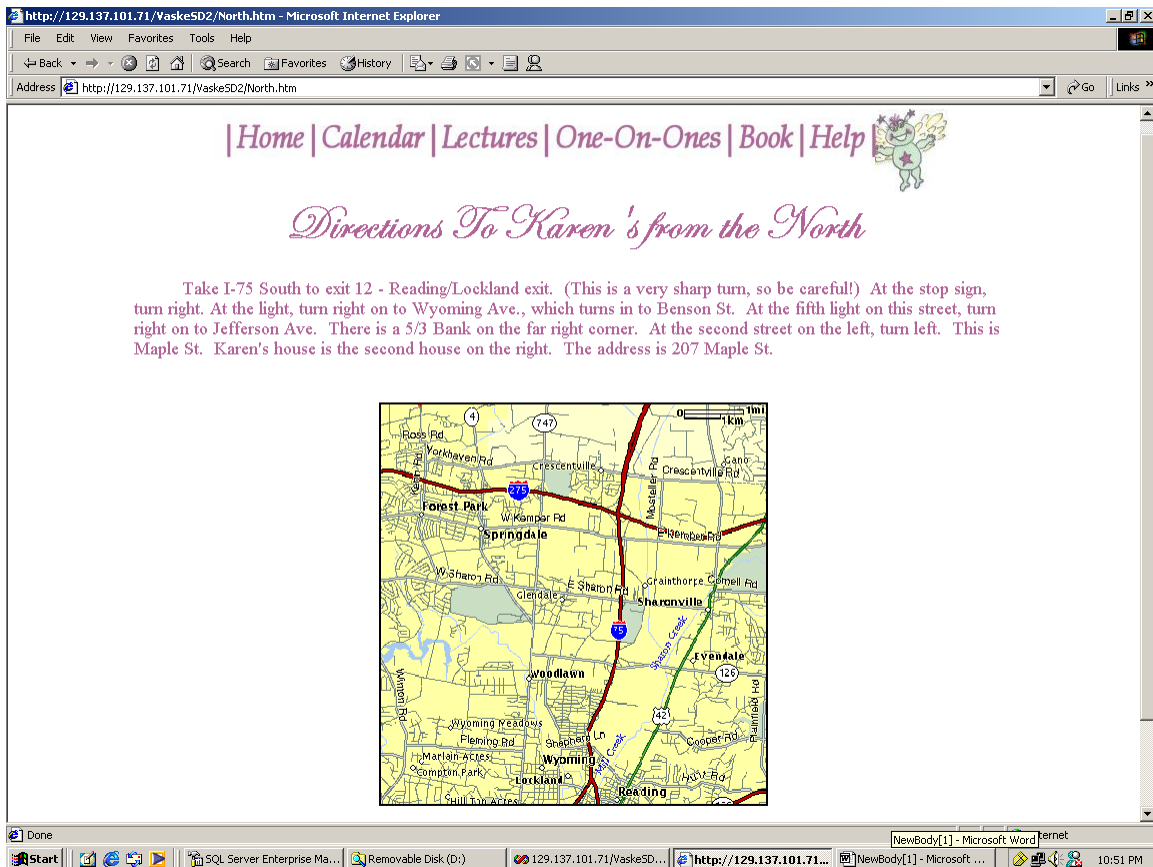


Figure 11. This is the “North” page (North.htm)

The next informational page is the “Order Form” page. It contains a printable order form for Karen’s book, “The Gigglers,” which can be mailed with a personal check or credit card number to order books. It is a child of the “Book” page. It can be seen in Figure 12.

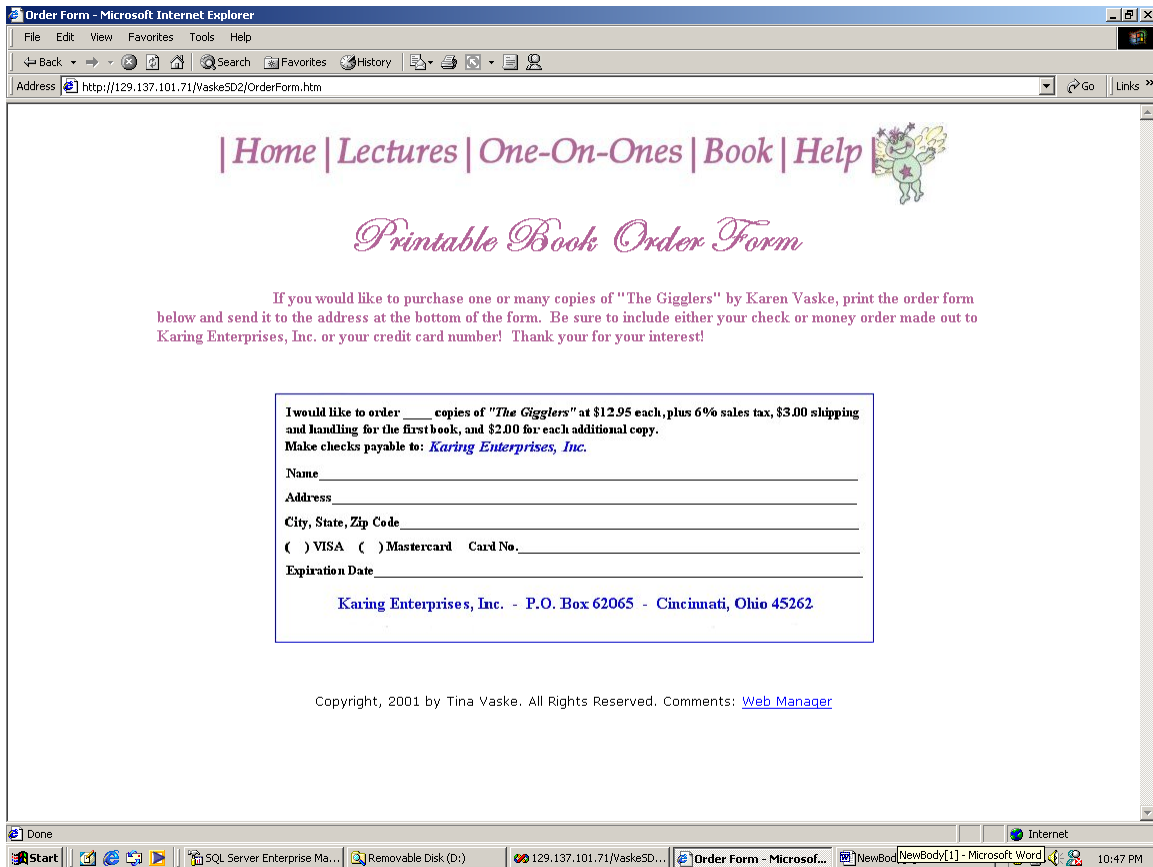


Figure 12. This is the “Order Form” page (OrderForm.htm)

The last informational HTML page is the second help page for the site. It is designed to aid the user in filling out the customer registration form and the appointment form. It contains all of the form requirements and navigation answers. It is only accessible from the customer form and appointment form pages. Its design and navigation image are the same as the other child pages to differentiate it from the main “Help” page. This page can be seen in Figure 13.

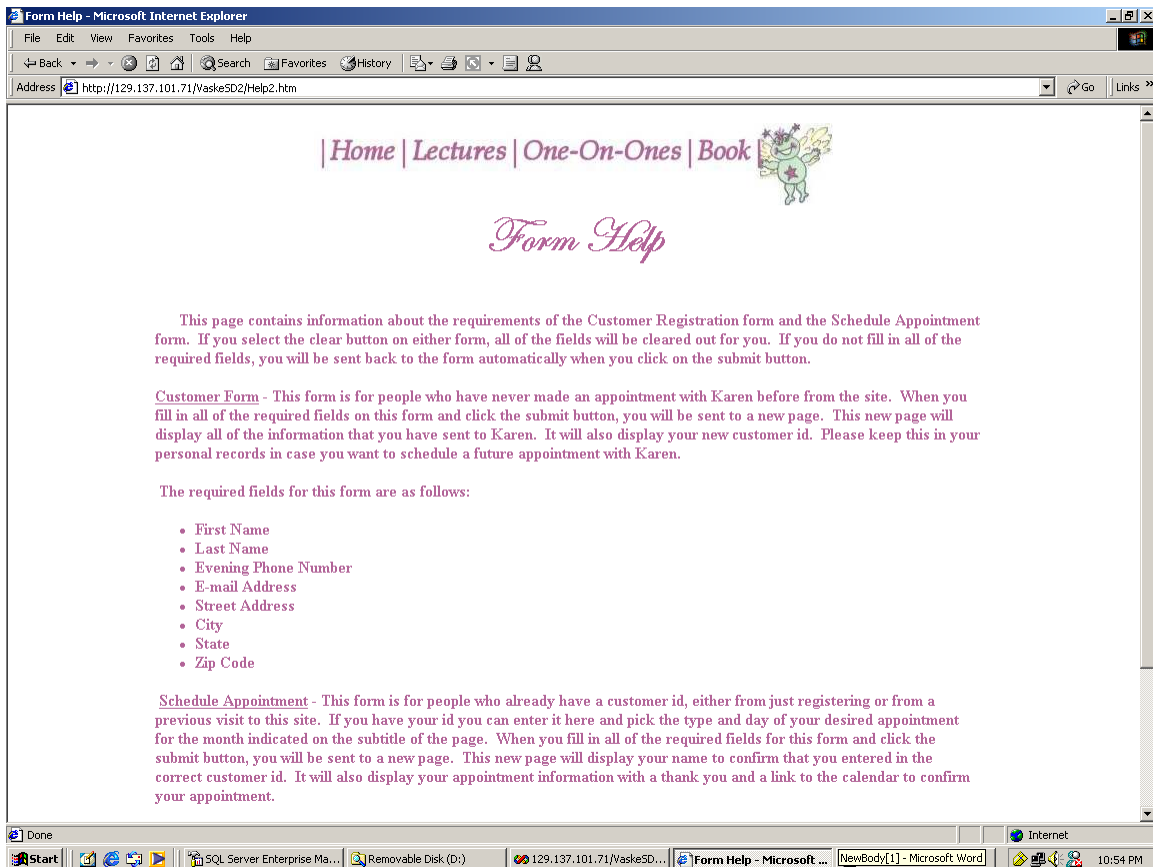


Figure 13. This is the “Form Help” page (Help2.htm)

The project also contains a current online view of Karen’s calendar with available dates and times for lectures and one-on-one sessions. Users are able to view this calendar and decide on a time that he/she would like to schedule something for the future, either a lecture, a one-on-one session, or both. This page can be seen in Figure 14.

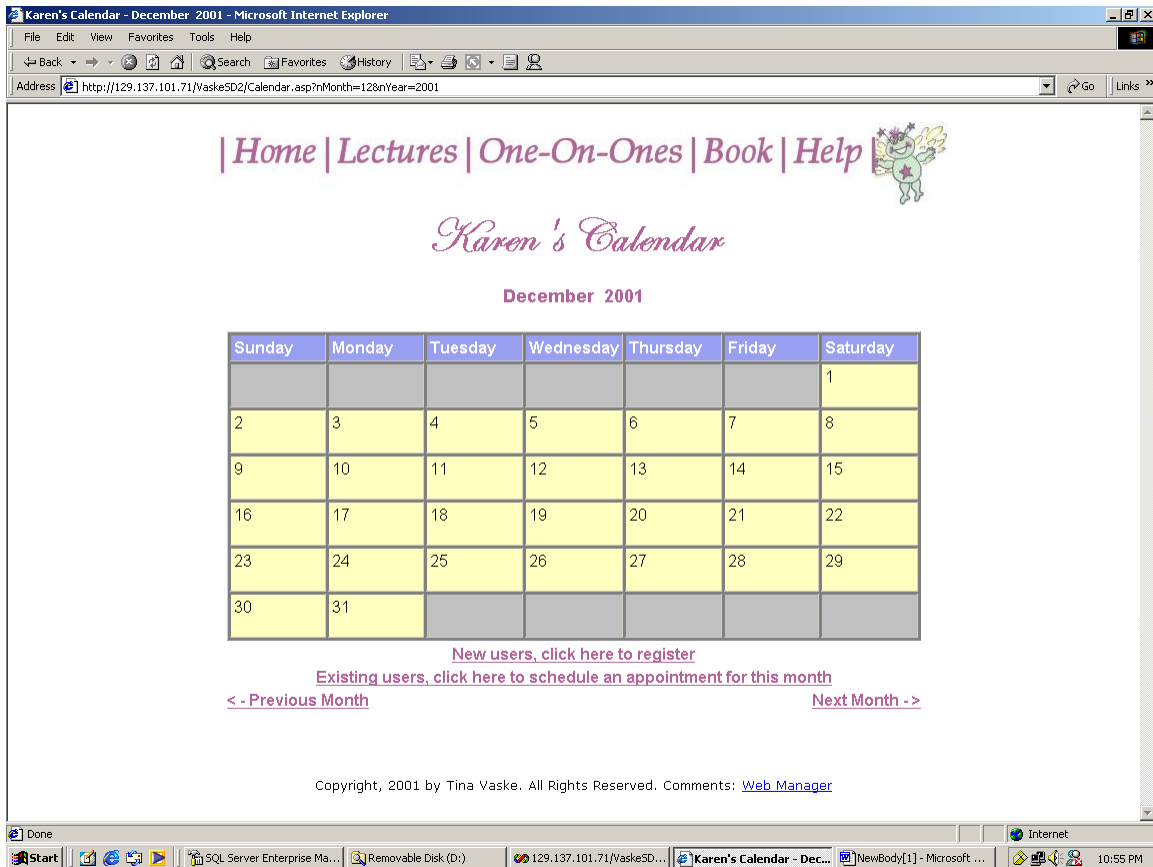


Figure 14. This is the “Calendar” page (Calendar.asp)

This page is an Active Server Page. It uses server-side VBscript to create the calendar table for each month of any year. This code for this page can be seen in Appendix A.

From the “Calendar” page, the user has the option to either sign up as a new customer to get a customer identification number or schedule an appointment, if they already have an id number. All of the information pertaining to either of these transactions is stored in the “VaskeSD” database on the “DIT-SENIOR” database server. This database consists of two tables called, “Customer” and “Schedule.” The “Customer” table contains personal information about the user. The “Schedule” table contains appointment information and relates to the “Customer” table by the customer’s identification number. The table relationship allows one customer to have many appointments, but not vice versa. The table descriptions and relationship can be seen in Figure 15.

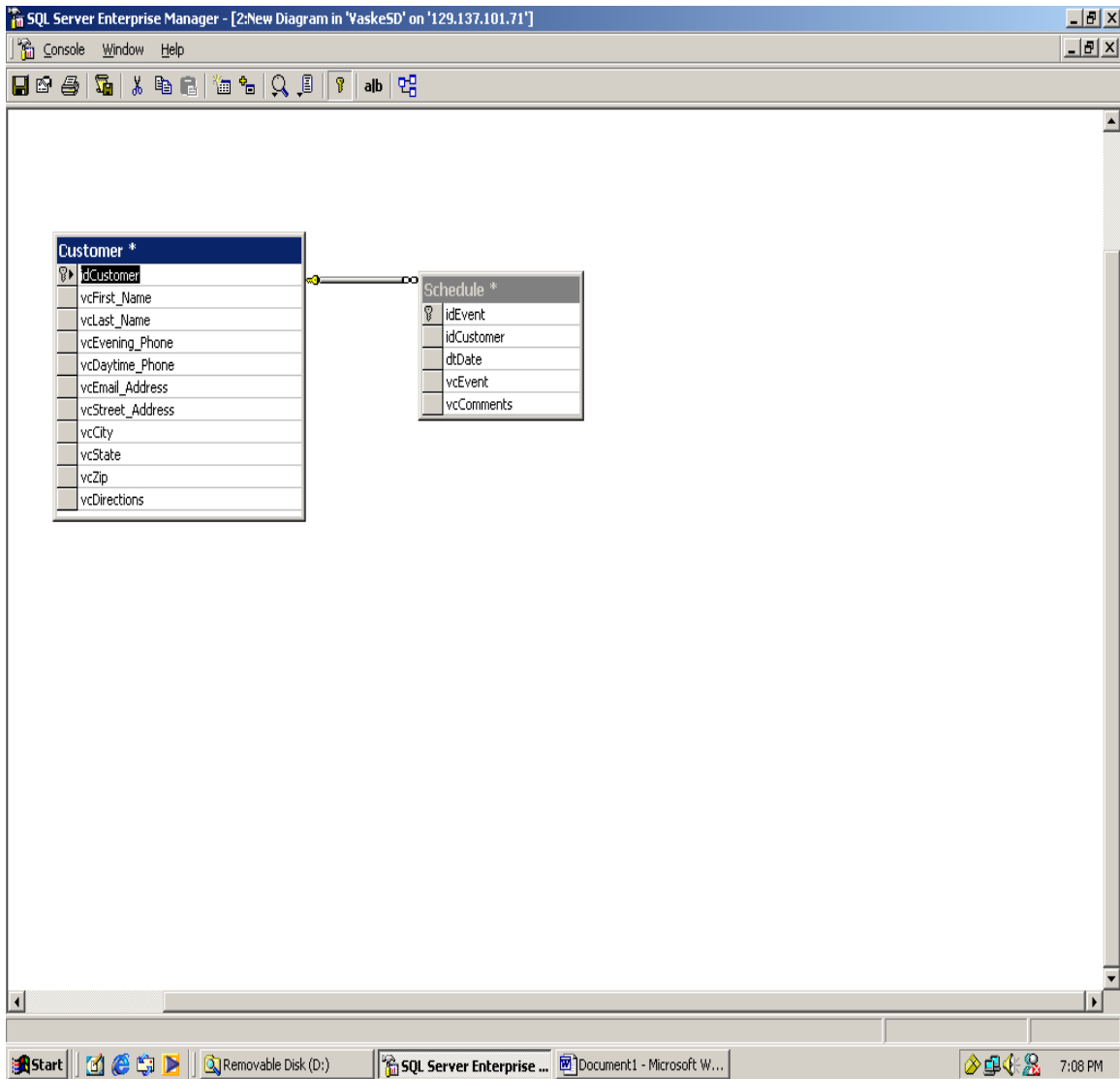


Figure 15. This is the database diagram for the “VaskeSD” database

This database also contains many stored procedures, which are called from the Active Server Pages. These stored procedures provide a quick response for the Active Server Pages to allow for speedy execution. These procedures can be seen in Appendix B.

If the user is a new customer, they go to the “CustomerForm” page. From this page, the user is able to enter his/her name, address, work and home phone numbers, e-mail address, and directions to his/her home. This page can be seen in Figure 16.

The screenshot shows a Microsoft Internet Explorer browser window displaying the 'Customer Registration' page. The browser's address bar shows the URL: `http://129.137.101.71/NaskeSD2/CustomerForm.asp?rMonth=12&rYear=2001`. The page content includes a navigation menu with links for [Home](#), [Lectures](#), [One-On-Ones](#), [Book](#), and [Help](#), along with a small cartoon character. The main heading is 'Karen's Calendar' in a cursive font, followed by the sub-heading 'Customer Registration'. The registration form is titled 'Please Enter The Following:' and contains the following fields:

- First Name: *
- Last Name: *
- Daytime Phone Number (e.g. 555-123-4567):
- Evening Phone Number (e.g. 555-123-4567): *
- Email Address: *
- Street Address: *
- City: *
- State: *
- Zip Code: *
- Directions/Comments (cell or pager numbers):

A note at the bottom of the form states: 'NOTE: An asterick (*) denotes required fields!'

Figure 16. This is the “Customer Form” page (CustomerForm.asp)

If the user enters all required data correctly and hits the submit button, he/she is then automatically taken to the “AddCustomer” page. Here, the user can see a visual confirmation of all the data that he/she has sent to the database. The user also receives a customer identification number after successfully submitting this data. At this point, the user can click on the link at the bottom of the page to schedule an appointment with Karen. This page can be seen in Figure 17.

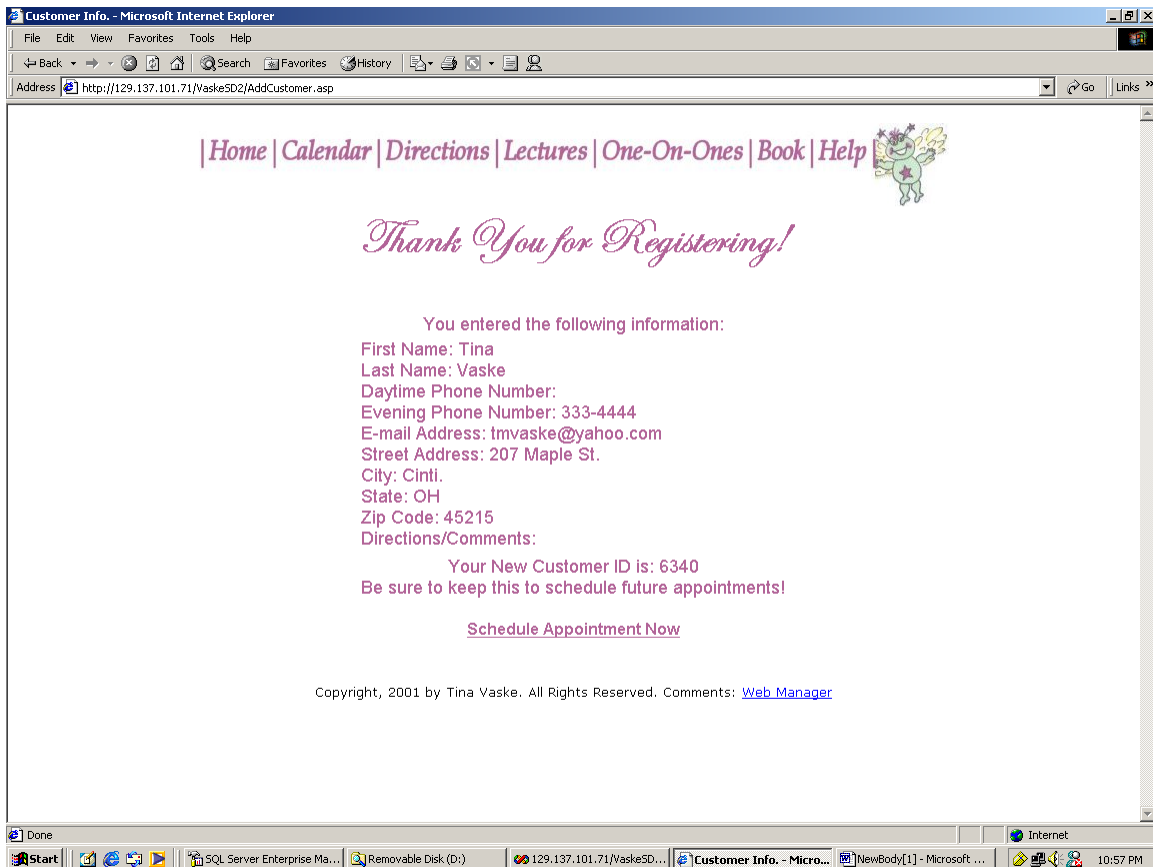



Figure 17. This is the “Thank You” page for registering (AddCustomer.asp)

If the user has already registered and has a customer identification number, he/she can go directly to the scheduling form and make a request in to a database. This page is called the “Appointment Form.” Here, the user can enter his/her id number, the type and time of appointment from a drop down list, and the day of the month from a drop down list. The user can also enter any comments about the appointment, if necessary. This page can be seen in Figure 18.

| [Home](#) | [Lectures](#) | [One-On-Ones](#) | [Book](#) | [Help](#) 

Karen's Calendar

Schedule Appointment For December 2001

Please Enter Your Information:

Customer ID: *

Appointment Type: *

Desired Day of Month: *

Specific Comments:

NOTE: An asterisk (*) denotes required fields!

[Back to Calendar](#)

Copyright, 2001 by Tina Vaske. All Rights Reserved. Comments: [Web Manager](#)

Figure 18. This is the “Appointment Form” page (AppointmentForm.asp)

After the user has entered a correct customer id number and all other necessary information, the user automatically sees the “AddEvent” page. The user sees a “Thank You” message first. The user also sees his/her name to confirm the correct id number was entered, as well as, the appointment information. Finally, the user is then made aware that he/she will receive a confirmation e-mail from Karen. The user is also given an option to view the calendar as well to confirm the appointment. This page can be seen in Figure 1.9

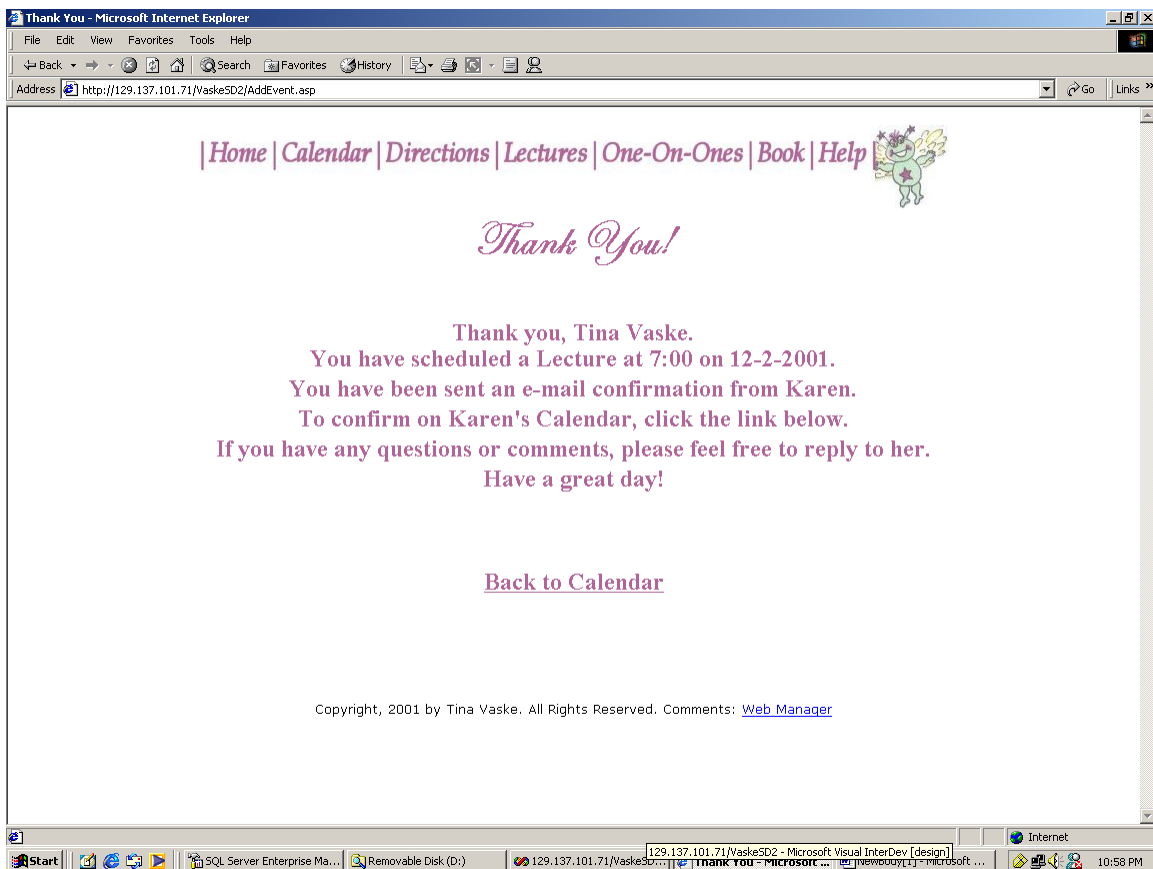


Figure 19. This is the appointment confirmation page (AddEvent.asp)

As the calendar and database are updated from the “AppointmentForm” page, the user is automatically sent a confirmation for his/her appointment via e-mail address. On all e-mails, the user receives Karen’s e-mail address and phone number for use in case of cancellations or changes. This e-mail can be seen in Figure 20.



Figure 20. This shows the e-mail the user received

All of these elements will completely address the needs of the many phone calls that Karen receives at this time as well as the need to sell her book.

7. Conclusions and Recommendations

The Dynamic Reservation Web Site meets the objectives defined above in the “Objectives of the Project.” The Web site is located at <http://29.137.101.71/VaskeSD2>. The site is best viewed using Internet Explorer 4.0 or above as the web browser.

I used ASP code in conjunction with HTML to make a site that is both functional and easy for the user to navigate. I used Microsoft’s Visual Interdev software to house my project and all of its images. I used SQL Server 7 to store my database, because it supports relational databases and also provides advanced security for the data.

At this point, the Dynamic Reservation Web Site is a fully functional web site. It meets all of the current needs of Karing Enterprises, Inc. It is also a generic project that can be changed to meet the scheduling needs of any other company with only a few minor changes and a new database.

As with most IT projects, this Web site is scalable and can be added to and improved upon easily. The graphics can be changed in the future, if desired. Also, any new text can be added with time upon need. Karing Enterprises might even want to add new parent pages with time as new company developments arise. Tables can easily be added to the “VaskeSD” database, if needed for future developments.

This project is designed only for the users, or customers of Karing Enterprises, Inc. In order to make this a fully functional system, I would suggest the future development of an interface for the administrator of this project. I would suggest for a few simple forms and reports to be developed in Microsoft’s Access. The forms and reports would interact with the SQL Server database. The forms would bring up all database records for viewing and allow the administrator to delete records, add records,

or update records easily. The reports would allow the administrator to easily view certain selected data and to print that data. For example, I would create a weekly report for Karing Enterprises that shows all daily appointments with any related customer information.

Finally, I would suggest for the future deployment of this project to get rid of any relationship with Visual Interdev. Visual Interdev is a good place to start when developing a Web project; however, there are many known problems with projects that are developed in Visual Interdev concerning flexibility with other browsers. I have already coded in many pieces of this project, instead of using Visual Interdev's Design Time Controls and database connection objects; but I have not yet fully deployed the project outside of the Visual Interdev environment. This would be my final step, besides ensuring that my code works with all of the major browsers, i.e. Netscape and AOL.

Appendix A.

Calendar.asp Code

```
<!--#includes file="Header.asp"-->
<%
dim dbConn, rs, nDex, nMonth, nYear, dtDate

' Get the current date
dtDate = Now()

' Set the Month and Year
nMonth = Request.QueryString("nMonth")
nYear = Request.QueryString("nYear")
if nMonth = "" then nMonth = Month(dtDate)
if nYear = "" then nYear = Year(dtDate)

' Set the date to the first of the current month
dtDate = DateSerial(nYear, nMonth, 1)

Set dbConn = GetDataConnection
Set rs = dbConn.Execute ("GetSchedule " & nMonth & ", " & nYear)

DoHeader(MonthName(Month(dtDate)) & "&nbsp;&nbsp;&nbsp;," & nYear)
%>

<form method="post" name="DateSelect" action="Calendar.asp">
<table align=center width=700>
<tr><td colspan=2>
  <table border=1 bgcolor="gray" cellpadding=3>
    <tr bgcolor="#999FF"><td width=90><font
color="white"><b>Sunday</b></font></td>
      <td width=90><font color="white"><b>Monday</b></font></td>
      <td width=90><font color="white"><b>Tuesday</b></font></td>
      <td width=90><font color="white"><b>Wednesday</b></font></td>
      <td width=90><font color="white"><b>Thursday</b></font></td>
      <td width=90><font color="white"><b>Friday</b></font></td>
      <td width=90><font color="white"><b>Saturday</b></font></td></tr>
    <tr bgcolor="#fffc0">
      <%
' Add blank cells until the proper day
for nDex = 1 to Weekday(dtDate) - 1
  Response.Write "<td bgcolor=""#c0c0c0"">&nbsp;&nbsp;&nbsp;</td>"
```

```

next

do
    Response.Write "<td valign=""top"">" & Day(dtDate) &
"<br>&nbsp;&nbsp;&nbsp;<br>"

    if not rs.EOF then
        do
            if CInt(rs("nDay")) <> CInt(Day(dtDate)) then exit do

            Response.Write "<font size=""-1""><b>" & rs("vcEvent")
            Response.Write "</b></font><br>"
            rs.MoveNext

            if rs.EOF then exit do
        loop
    end if

    Response.Write "</td>"

    if WeekDay(dtDate) = 7 then
        Response.Write "</tr>" & vbCrLf & "<tr bgcolor=""#ffffc0"">"
    end if
    dtDate = DateAdd("d", 1, dtDate)
loop until (Month(dtDate) <> CInt(nMonth))

' Add blank cells to fill out the rest of the month if needed
if Weekday(dtDate) <> 1 then
    for nDex = Weekday(dtDate) to 7
        Response.Write "<td bgcolor=""#C0C0C0"">&nbsp;&nbsp;&nbsp;</td>"
    next
end if
%>
</tr>
</table></td></tr>

<tr><td colspan=2 align="center"><b><a
href="CustomerForm.asp?nMonth=<%= nMonth %>&nYear=<%= nYear %>"
>New users, click here to register</a></td></tr>
<tr><td colspan=2 align="center"><b><a
href="AppointmentForm.asp?nMonth=<%= nMonth %>&nYear=<%= nYear %>"
>Existing users, click here to schedule an appointment for this month</a></td></tr>

<tr><td><a href="Calendar.asp?nMonth=<%
if nMonth = 1 then

```

```

        Response.Write "12&nYear=" & nYear - 1
    else
        Response.Write nMonth - 1 & "&nYear=" & nYear
    end if %>"><b>< - Previous Month</b></a></td>
<td align=right><a href="Calendar.asp?nMonth=<%
if nMonth = 12 then
    Response.Write "1&nYear=" & nYear + 1
else
    Response.Write nMonth + 1 & "&nYear=" & nYear
end if %>"><b>Next Month - ></b></a>
</td>
</tr>
</table>
</form>

<table><tr><p>&nbsp;</p>
<P></P>
<P></P></p></tr><tr>
<td width="100%"><font face="Verdana" size=2>Copyright, 2001 by Tina Vaske. All
Rights Reserved. Comments: <A href="mailto:tmvaske@yahoo.com"><font
color=#0000FF>Web Manager</font></A></font>
</td>
</tr></table>

<%
DoFooter("Home")
%>

```

Appendix B.

Stored Procedures

1. CREATE PROCEDURE AddCustomer (@vcFirst_Name varchar(30),
@vcLast_Name varchar(40), @vcDaytime_Phone varchar(14),
@vcEvening_Phone varchar(14), @vcEmail_Address varchar(30),
@vcStreet_Address varchar(50), @vcCity varchar(50), @vcState varchar(2),
@vcZip varchar(9), @vcDirections varchar(300))
AS
insert into Customer (vcFirst_Name, vcLast_Name, vcDaytime_Phone,
vcEvening_Phone, vcEmail_Address, vcStreet_Address, vcCity, vcState,
vcZip, vcDirections)
values (@vcFirst_Name, @vcLast_Name, @vcDaytime_Phone,
@vcEvening_Phone, @vcEmail_Address, @vcStreet_Address, @vcCity,
@vcState, @vcZip, @vcDirections)

select @@identity
2. CREATE PROCEDURE AddEvent (@idCustomer int, @dtDate
varchar(100), @vcEvent varchar(20), @vcComments varchar(150))
AS
insert into Schedule (idCustomer, dtDate, vcEvent, vcComments)
values (@idCustomer, @dtDate, @vcEvent, @vcComments)
3. CREATE PROCEDURE GetName @id int
AS
Select vcFirst_Name, vcLast_Name, vcEmail_Address
From Customer
Where idcustomer = @id
4. CREATE PROCEDURE GetSchedule (@nMonth tinyint, @nYear smallint)
AS
select idEvent, convert(varchar, datepart(dd, dtDate)) 'nDay', vcEvent
from Schedule
where datepart(yy, dtDate) = @nYear and datepart (mm, dtDate) = @nMonth
order by datepart(dd,dtDate)

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