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Computing Resources Inventory

A Project Report submitted to the Graduate Faculty

By

Mark Totzke

In partial fulfillment of the requirements for the degree of

Master of Science in Information Systems

Dakota State University

May 2005



MSIS PROJECT APPROVAL FORM

Student Name: Mark Totzke	_
Expected Graduation Date: 5-7-2005	
Master's Project Title: Computing Resources Inventory	
Date Project Plan Approved: 2-15-2009	
Date Project Coordinator Notified and Grade Submitted: 5-4-20	್
Approvals/Signatures:	
Student:	Date: 5-6-05
Faculty supervisor: Din a Cally	Date: 5/4/05
Committee member: Shair Shou	Date: $5/4/0$
Committee member:	Date: <u>5/4/0S</u>

Abstract

The Faculty Development Center for the Advancement of Technology, Teaching and Learning, from year to year create a number of computer related projects that need to be accomplished. One, however, seemed to be a major project that would take a great deal of planning. Planning for this project started in the spring semester of 2004. The implementation started that fall and continued until completion in April of 2005.

In detail, the project consists of creating a Microsoft Access database with computer information from each computer lab on campus. More specifically, it will contain software applications and hardware specifications. The database is connected to the World Wide Web using a web interface. The end user will be able to go to the Computing Resources Inventory website and query the database using the web interface. For instance, an off-campus student can search the database to see which labs have Adobe Photoshop for their computer graphics course. This is just an example; the user can perform many queries using this powerful system.

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I. Introduction

The Faculty Development Center for the Advancement of Technology,
Teaching and Learning, from year to year create a number of computer related
projects that need to be accomplished. One, however, seemed to be a major
project that would take a great deal of planning. Planning for this project started
in the spring semester of 2004. The implementation started that fall and
continued until completion in April of 2005.

In detail, the project consists of creating a Microsoft Access database with computer information from each computer lab on campus. More specifically, it will contain software applications and hardware specifications. The database is connected to the World Wide Web using a web interface. The end user will be able to go to the Computing Resources Inventory website and query the database using the web interface. For instance, an off-campus student can search the database to see which labs have Adobe Photoshop for their computer graphics course. This is just an example; the user can perform many queries using this powerful system.

II. Statement of the problem

The Faculty Development Center for the Advancement of Technology, Teaching and Learning, from year to year create a number of computer related projects that need to be accomplished. One, however, seemed to be a major project that would take a great deal of planning. As a professor at Dakota State University and Faculty Development Center Coordinator, Dan Talley identified the need for a Computing Resources Inventory project. This project is included among the resources that were proposed to as part of a three-year, \$300,000 Faculty Development Grant that was awarded to DSU by the Bush Foundation in 2002. The project is to provide a searchable website that will allow anyone at DSU to determine the composition of computer hardware and software on every computer in all of the computer labs on campus. Currently there is no comprehensive resource available that let students and faculty search what equipment, devices, hardware and software packages are available for their use.

III. Objectives

The goal is to identify and publish an inventory of computer-intensive or technology-intensive resources on campus that are available for faculty and student use. This information is important for faculty who are trying to determine whether to attend the routine training sessions that demonstrate the use of various equipment, devices and facilities on campus that are hosted by Computing Services and Distance Education staff. It is also important for students to be able to search what resources are available in the computer labs on the Dakota State University campus.

IV. Scope

In the planning phase, a meeting was held with Dan Talley in which a discussion of the scope of the project occurred; it seemed to be a project that would not be extremely difficult or challenging. However, as implementation began and the web pages started to develop, it grew quite complex very quickly. The developer took an ASP course in his undergraduate studies where he learned the basics of ASP programming. He took INFS 730 his first semester where he polished up his ASP skills and began using it more often. As he later found out, many of the complex things needed to make the application work would be doing much more advanced things that he learned in both the undergraduate course and the graduate level course. It required a lot of reading and self-learning to help complete the project most efficiently. Originally, it was planned to be completed his in December of 2004. There was a version of the project ready to deliver to the graduate office; however it lacked the functionality and efficiency that it now encompasses. In December, a discussion with Haomin Wang and Dan Talley regarding the quality and effectiveness of the project up to that point was held. There was a decision to be made; turn in an incomplete and inefficient project or put another semester into it and make it something that Dakota State University would value adding to their website.

There were numerous problems during the implementation phase. When the database was originally planned, there were 3 tables: lab, software and hardware. It seemed like it would work fine until the SQL statements came into play. There were also problems trying to get the correct data to display. There

was another meeting established with Stephen Krebsbach and Zehai Zhou and a new table layout design was created. The new design had five tables: Hardware, LabHardware, Lab, SoftwareLab, and Software. The LabHardware and SoftwareLab tables only have two fields in each table, both of which are keys in other tables. The Hardware and Software tables also only have two fields, the type of hardware along with a hardware ID or the software package with a software ID. The LabHardware and SoftwareLab tables have the Hardware ID or Software ID along with the Lab ID. This layout is more efficient in that within the SQL statements, there needed to be comparisons to see which hardware specs and software packages are in the labs; therefore, it was necessary to select all the records with a certain lab ID. The SQL statements take those results, match those with all the records in the LabHardware or SoftwareLab table, and match them with the lab ID from the lab table. The result will select all the hardware or software that match for that particular lab. This would not have been possible with the way the database was set up prior to the meeting.

As for the programming side of the project, once a connection to the database was established, the next step was to determine where to start with the ASP. Select...Case statements to verify which forms were requested by the user were used at the beginning of the implementation process (Buser, B., 1999). It worked but it only checked for the very first instance of a requested form. Another meeting with Zehai and it was obvious that the wrong programming techniques were being utilized. Zehai recommended to change the select...case statements

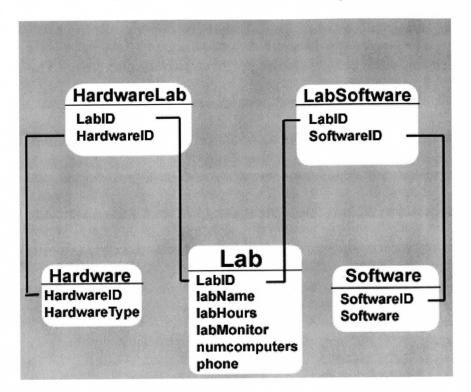
to if...then...else statements which selects each and every form that is being used.

V. Database

In detail, the project consists of creating a Microsoft Access database with computer information from each computer lab on campus. More specifically, it will contain the lab name, lab monitor, phone number, the number of computers in the lab, lab hours, software applications and hardware specifications. The database used five joined tables and one table that did not have a relation with the other five. The un-joined table was used specifically for password use for the administrator.

The five joined tables are Hardware, HardwareLab, Lab, LabSoftware and Software. The hardware table has the hardware type and a hardware ID for each type of hardware. The hardwareLab table has the Hardware ID and the Lab ID fields. The lab table has the lab ID for each lab, the lab name, lab phone number, the number of computers in that each lab, the lab monitor and the lab hours. The software table has the name of each piece of software along with different versions, and it has a software ID for each software item. Lastly, the labSoftware table has the software ID and the lab ID. Each table has a primary key, labID, softwareID and hardwareID, which are used to form a relational database.

Table 1: Database Relationships



VI. Web Design and ASP

The database is connected to the Internet using a web interface. The end user will be able to go to the Dakota State University's website and query the database using the web. HTML was used to create the web pages and ASP to connect to the database. ASP is a powerful server side scripting language that allows the use of SQL statements along with other functionality used in the creation of the project.

Computing Resources Inventory uses five HTML pages and eighteen ASP pages. The majority of the pages are for administration purposes. The administrator is privileged to add a new lab, delete a lab, and edit records in the database. The user-friendly environment makes it very easy to manipulate the data within the database. In the edit page, the admin is asked to choose a lab to edit. The page uses many SQL statements to display all the lab information, the hardware specs and the software packages in that particular lab. Next to each record, there is a edit/save button and a delete button that edit only that record. The records are displayed in textboxes so simply changing versions of software make it effortless to edit. The edit web page allows the administrator to add new hardware and software that are not currently in the database and add it to the global list of hardware and software. The edit page also allows the administrator to pick from a drop down global list of software and hardware that are in the database but not in the lab yet. The user-friendly environment allows the administrator to work with the database without any knowledge of how the

database is set up. Furthermore, it does not require the administrator to know how to create web pages using HTML or ASP or any working knowledge of how to code the application. The way it is set up, no one should have to open the database to manipulate the data unless a field needs to be added or deleted.

VII. Layout and Design

The layout and design of the Computing Resources Inventory website was developed to assimilate the same color scheme as the DSU website. The Computing Inventory Resources website uses a blue background for each page and uses yellow and white text to keep the Trojan color theme. It was also important to have a Faculty Development Center header and link on each page to let users know what department is in charge of the Computing Resources Inventory system. It was of high hopes that the system would become widely used in the next year or two and advertising for the Faculty Development Center was very important. Not everyone is familiar with what the Faculty Development Center is or involves, so this will increase awareness of the program.

Table 2: HTML Pages

Add.html	Edit.html
Banner.html	Index.html
Del.html	

Table 3: ASP Pages

Add.asp	Add1.asp
Add2.asp	Add3.asp
Add4.asp	Add5.asp
Del.asp	Del1.asp
editLab.asp	editLab1.asp
editLabInfo.asp	labHard.asp
labHardware.asp	Labs.asp
Labsoft.asp	Locate.asp
Search.asp	Search1.asp

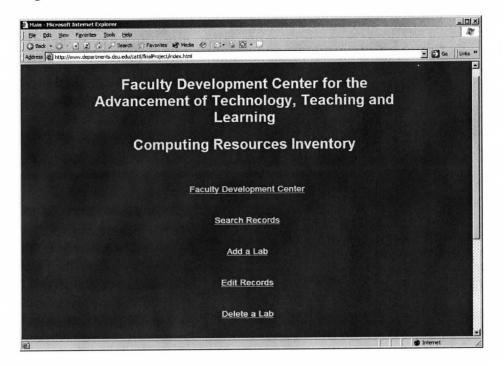
VIII. Web Pages

Index.html

The index.html page is the main page when a user enters the website.

From this page the user can go directly to the Faculty Development Center website, search records page, add a lab page, edit records page and the delete a lab page. The links on the index page are on every page within the website for easy navigation.

Figure 1: Index.html

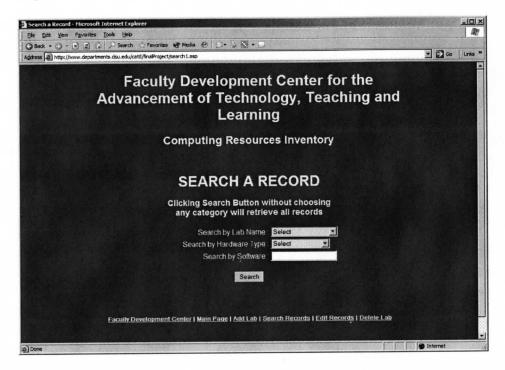


Search1.asp

Search1.asp is the central page for all faculty and staff using the search functionality. This page has three search criteria: search by lab, search by hardware, and search by software. If no forms are selected it will display every

lab in the database along with the lab hours, phone number and the number of computers in each lab. If the user searches by hardware, it will generate a list of all the labs that have that particular hardware in the lab. The search by lab and search by hardware forms are dropdown lists that pull data directly from the database. Therefore, whatever is in the dropdown lists are the global lists for the whole database. The search by software option will display each lab that meets the criteria inside the text box. There are multiple ways to do this kind of search. A popular way is the keyword search. The problem with a keyword search is that you have to type in the exact name of the software package. Because there is a possibility to miss a space, spell it wrong or even forget the version number, I chose not to use this type of search. The way this search is set up is the user can type in any sequence of letters and if it matches any sequence of letters for the software in the database, it will pull that software type up. For instance, if I type "MS" I will get multiple selections: MS Word, MS Excel, MS Access, etc. Many software packages have more than one word in it, with this method, users can type in the first, second or third word and it will still work.

Figure 2: Search1.asp



Search.asp

This asp page does all the generating of the SQL statements. It looks back at the search1.asp page and distinguishes which way the user want so search. I used multiple if...then statements to check which forms were being used. This page also does the displaying of the lab information. There are two links, view hardware and view software, each will take the user to a different page.

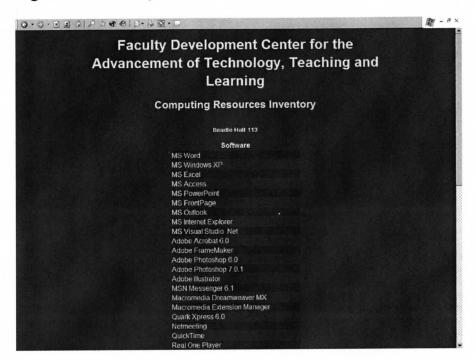
Figure 3: Search.asp

Lab Name	Software	Hardware	Phone Number	Lab Hours	Number of Computers
Beadle_Hall_113	View Software	<u>View</u> Hardware	256-5270	8am- 10pm	30
Beadle_Hall_223	View Software	View Hardware	256-5270	8am- 10pm	
Kennedy_Center_122	View Software	<u>View</u> <u>Hardware</u>	256-5177	8am- 10pm	32
Kennedy_Center_123	View Software	View Hardware	256-5177	8am- 10pm	20
Science_Center_147	View Software	Yiew Hardware	256-5194	8am- 10pm	26
TCB_209	View Software	View Hardware	256-5049	8am-5pm	22
TCB_302	View Software	View Hardware	256-5049	8am-5pm	12
Cyber_Café	View Software	View Hardware	256-5146	8am- midnight	16
Higbie_Dorm	View Software	View Hardware	256-5640	Open 24 hours	
Zimmerman_Dorm	View Software	<u>View</u> Hardware	256-5230	Open 24 hours	
Emry_Dorm	<u>View</u> Software	<u>View</u> Hardware	256-5244	Open 24 hours	
Richardson_Dorm	View Software	View Hardware	256-5641	Open 24 hours	34
Library	View Software	View Hardware	256-5203	8am- 10pm	
East_Hall_306	View Software	View Hardware	256-5165	8am- 10pm	30

Labs.asp

If the user clicks the View Software link on the search1.asp page, a list of all the software in that lab will be displayed.

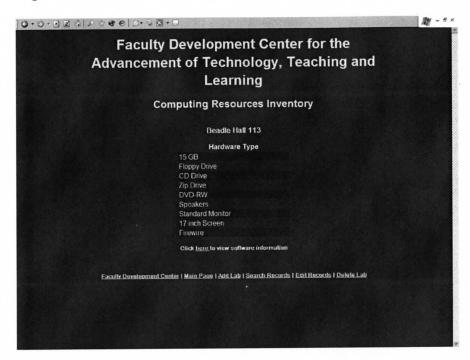
Figure 4: Labs.asp



LabHardware.asp

If the user clicks the View Hardware link on the search1.asp page, a list of all the software in that lab will be displayed. A link back to the software page is also displayed.

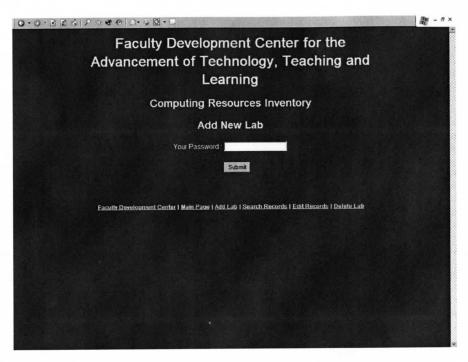
Figure 5: LabHardware.asp



Add.html

The add.html page uses a textbox for the administrator to log in. If the admin types in the wrong password, an error message will be displayed. I used the locate.asp page to handle all the passwords. When the submit button is clicked, it redirects to the locate page and verifies if the password is correct. If the log in was successful, the admin is redirected to the Add a Lab page.

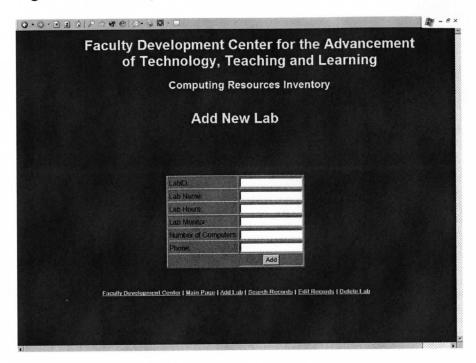
Figure 6: Add.asp



Add2.asp

This page has text boxes for each of the fields in the lab table. It is necessary to include a lab ID and a lab name to successfully insert records into the database. The labHours, numcomputers, phone and monitor are not mandatory. Once the submit button is clicked, it automatically creates a new table.

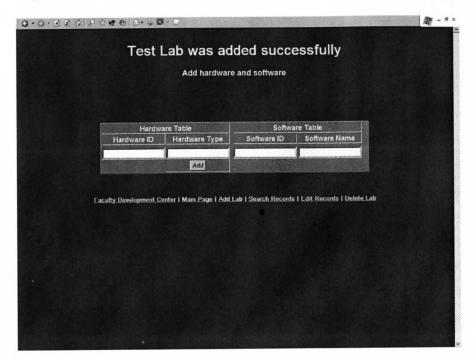
Figure 7: Add2.asp



Add1.asp

This page is used just for adding software and hardware to the table that was previously inserted. There are four text boxes, one for the hardware ID, hardware type, software ID and software type. It is not necessary to fill out the hardware and software, it is only necessary to insert an ID with either the hardware or software, otherwise it will generate an error.

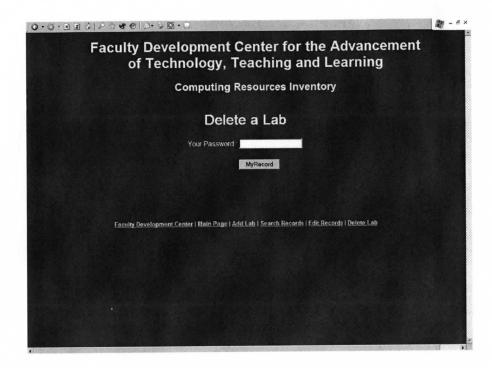
Figure 8: Add1.asp



Del.html

The del.html page uses a textbox for the administrator to log in. If the admin types in the wrong password, an error message will be displayed. I used the locate asp page to handle all the passwords. When the submit button is clicked, it redirects to the Locate page and verifies if the password is correct. If the log in was successful, the admin is redirected to the Delete a Lab page.

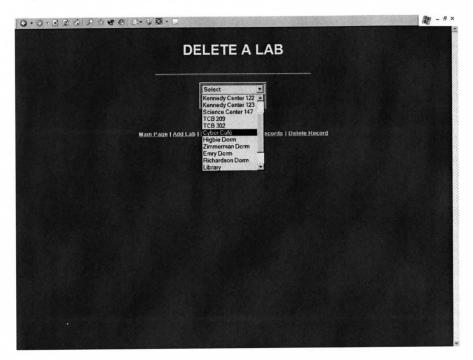
Figure 9: Del.html



Del.asp

This page uses a dropdown list to display all the labs that are in the database. If the user selects a lab and hits submit, that lab will be deleted from the database.

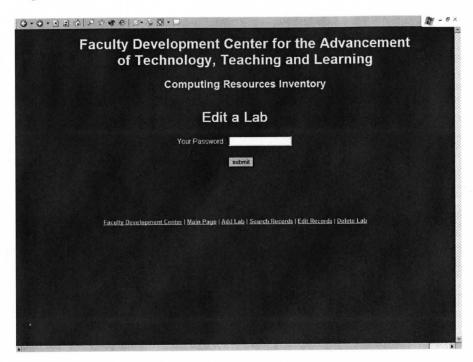
Figure 10: Del.asp



Edit.html

The edit.html page uses a textbox for the administrator to log in. If the admin types in the wrong password, an error message will be displayed. I used the locate.asp page to handle all the passwords. When the submit button is clicked, it redirects to the Locate page and verifies if the password is correct. If the log in was successful, the admin is redirected to the Edit a Lab page.

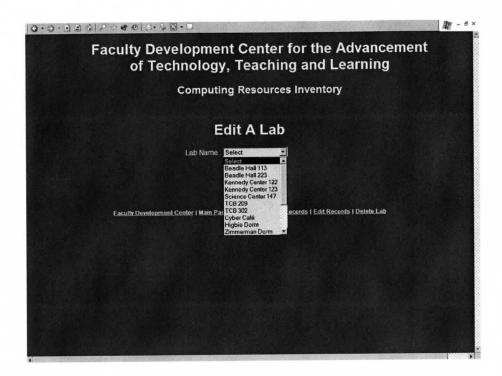
Figure 11: Edit.html



EditLab.asp

This page uses a dropdown list to display all the labs in the database. Once the submit button is clicked, the user is redirected to the editLab.asp page

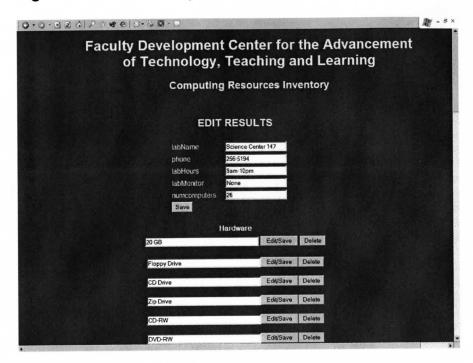
Figure 12: EditLab.asp



EditLab1.asp

EditLab1.asp displays all the lab information, and hardware and software specs for the lab that was selected on the editLab.page. Each item that is displayed is inserted into a textbox. Next to each record is a edit button and a delete button which lets the administrator edit the name of the record or delete that record from that lab. There is also a global add and delete for both the software and the hardware. This will put that hardware type or software package in the global list in the hardware of software table in the database. To add a hardware type or a software package, I created a global list of all the hardware and software so that the user can select an item to add to the lab they previously selected.

Figure 13: EditLab1.asp



VIII. Results and Conclusion

The creation and implementation of the Computing Resources Inventory was successful. Although it took two semesters to implement, it was definitely worth it to stretch it out one more semester. It is now a more complete version with more functionality. Not only will the students and faculty be happier, the administrator will be also. There were not any major problems while planning or implementing so that helped to stay focused on each step of the implementing process. However, there were frequently little problems mainly with the coding that slowed down the completed version but with a little help, it was finished on time.

Future Plans

The Faculty Development Center for the Advancement of Technology, Teaching, and Learning has big goals for this project in the upcoming semesters. It is expected that students and faculty will use it on a regular basis. Although with the new wireless initiative, labs will be starting to disappear as the tablet PC's become more widespread. There will be many changes to the labs in the next few years especially with the wireless mobile computing initiative and hopefully it will not have a negative impact on the Computing Resources Inventory project. .

IX. References

Buser, B., Kauffman, J., Llibre, J., Francis, B., Sussman, D., Ullman, C., Duckett., (1999) *Active Server Pages 3.0.* Birmingham, UK: Wrox Press

InfoGenius, Inc. (2005) *The ASP Reference Index.* Retrieved from http://www.aspin.com

Corkhill, B., (2005) Web Wiz Guide. Retrieved from http://www.webwizguide.info/asp/default.asp

Appendix A

HTML and ASP Code

```
<% session.timeout = 30
'option explicit
Dim useraction
Dim dsn, sql, conn, conn1, rs, sql1, found
Dim LabID, LabName, LabHours, LabMonitor, NumComputers, Phone,
HardwareID, HardwareType, SoftwareID, Software, UserName, pwd
DIM MyCDONTSMail
useraction=Request("action")
Select Case useraction
 Case "add"
  LabID=Request.form("LabID")
  LabName=Request.form("LabName")
  LabHours=Request.form("LabHours")
  LabMonitor=Request.form("LabMonitor")
  NumComputers=Request.form("NumComputers")
  Phone=Request.form("Phone")
  HardwareID=Request.form("HardwareID")
  HardwareType=Request.form("HardwareType")
  SoftwareID=Request.form("SoftwareID")
  Software=Request.form("Software")
  UserName=Request.form("UserName")
  pwd=Request.form("pwd")
  sql1="SELECT login.pwd FROM login WHERE pwd="" & pwd & """
  dsn="DBQ=" & Server.Mappath("labspecs3.mdb") & ";Driver={Microsoft
Access Driver (*.mdb)};"
  set conn = server.createObject("adodb.connection")
  set rs = server.createObject("adodb.recordset")
  conn.open dsn
  rs.open conn, sql1
  'rs.open sql1
  found=0
  do while not rs.eof
   if rs("pwd") = pwd Then
    conn.close
    set conn=nothing
    found=1
    response.write "<CENTER><FONT SIZE=6><B>ADD A
RECORD</b></Font><BR></BR></Center>"
    response.write "<Table Border=1 Width=360>"
```

```
%>
      <BODY style="font-size:13; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="000000" vlink="ffaaaa" >
 <%
    response.write "<CENTER><BR><font size=+1>This password already
taken up."
     response.write "<BR>Press <B>Back</B> button and select
another</font></center>"
     response.end
   end if
  loop
  if found=0 Then
   sql="INSERT INTO Lab(LabID, LabName, LabHours, LabMonitor,
NumComputers, Phone, HardwareID, SoftwareID, Software, UserName, pwd)
Values("%LabID&", "%LabName&", "%LabHours&", "%LabMonitor&",
""&NumComputers&"", ""&Phone&"", ""&SoftwareID&"", ""&Software&"",
""&UserName&"', ""&pwd&"')"
   dsn="DBQ=" & Server.Mappath("labspecs3.mdb") & ";Driver={Microsoft
Access Driver (*.mdb)};"
   set conn1 = server.createObject("adodb.connection")
   conn1.open dsn
   conn1.execute(sql)
 %>
      <BODY style="font-size:13; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa" >
   response.write "<CENTER><BR><font size=6>The record added
successfully</font></Center><BR><BR>"
   'response.write "<CENTER><A Href='index.html'>Main Page</a> | <A
Href='add.html'>Add Record</a> | <A Href='search1.asp'>Search Record</a> |
<A Href='edit.html'>Edit Record</a> | <A Href='del.html'>Delete
Record</a></CENTER>"
  end if
end select
<HTML><Head><TITLE>Add a record</TITLE>link rel="stylesheet"
type="text/css" href="stylesheet.css">
</Head>
<BODY style="font-size:13; font-family:Arial, Verdana, Helvetica; font-weight:600;</p>
line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#abcdef"
Text="ffeedd" vlink="ffaaaa" ><CENTER><BR><BR>
<A Href="index.html">Main Page</a> | <A Href="add.html">Add Lab</a> | <A
Href="search1.asp">
```

Search Records | Edit Records |
Delete Lab

</CENTER>
</BODY></HTML>
<!-- ---- add.asp ENDS -----

```
<!-- ----- add.html BEGINS ----- -->
<HTML><HEAD><TITLE>ADD A RECORD</TITLE>
<SCRIPT Language=JavaScript>
<!-->Hide from old browsers
function check_form()
 valid=true:
if (document.addform.pwd.value.length==0)
{ valid=false; alert('Password field is empty!');
document.addform.pwd.focus(); return false}
}
//-->
</SCRIPT><STYLE>
a:hover{color:red}
</STYLE><link rel="stylesheet" type="text/css" href="stylesheet.css">
</HEAD>
<BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-weight:600;</p>
line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" alink="yellow" vlink="yellow">
<Center><font size="6">Faculty Development Center for the Advancement of
Technology, Teaching and Learning</font><font size="5">Computing
Resources
Inventory</font>
<font size="5">Add</font><font size=5 color=""><B> New
Lab</b></font><BR><BR>
<Form Name=addform Action="add2.asp" Method="POST" onsubmit='return</p>
check form()'>
<Table Border="0" Width="280">
<TR><TD Align="Right">Your Password : </Td><TD><INPUT Type="password"
name=pwd Size=20></Td></Tr>
<TR><TD Colspan=2><INPUT Type="Hidden" Name="action"
Value="del"></TD></TR>
<TR><TD></TD><TD><BR><INPUT Type="Submit" Value="Submit"
action="locate.asp?pwd="&rs("pwd")></Td></Tr>
</Table></Form><BR><BR><
<A Href="index.html">Main Page</a> | <A Href="add.html">Add Lab</a> | <A
Href="search1.asp">
Search Records</a> | <a href="editLab.asp">Edit Records</a> | <A
Href="del.html">
Delete Lab</a><BR><BR><BR><BR>
<CENTER>
```

</CENTER></BODY></HTML>
<!-- ---- add.html ends ----- -->

```
<!-- ----- add1.asp BEGINS ----- -->
<%
option explicit
Dim useraction
Dim dsn, sql, conn, rs
Dim LabName
useraction=Request("action")
Select Case useraction
 Case "add"
  dsn="DBQ=" & Server.Mappath("labspecs3.mdb") & ";Driver={Microsoft
Access Driver (*.mdb)};"
  set conn = server.createObject("adodb.connection")
  set rs = server.createObject("adodb.recordset")
  conn.open dsn
   if request.form("LabID")<>"" AND request.form("LabName")<>"" AND
request.form("labHours")<>"" AND request.form("labMonitor")<>"" AND
request.form("phone")<>"" then
   'AND request.form("hardwareID")="" AND request.form("hardwareType")=""
AND request.form("SoftwareID")="" AND request.form("software")="" Then
        sql="INSERT INTO Lab(LabID, LabName, LabHours, LabMonitor,
numComputers, phone) Values("&request.form("LabID")&",
""&request.form("LabName")&"', ""&request.form("LabHours")&"',
""&request.form("LabMonitor")&"', ""&request.form("numComputers")&"',
""&request.form("phone")&"')"
    conn.execute(sql)
   end if
   if request.form("HardwareID")<>"" AND request.form("HardwareType")<>""
AND request.form("HardwareID2")<>"" AND
request.form("HardwareType2")<>""then
      sal="INSERT INTO Software(SoftwareID, Software)
Values("&request.form("SoftwareID")&", ""&request.form("Software")&"')"
             conn.execute(sql)
             sql="INSERT INTO Hardware(HardwareID, HardwareType)
Values("%request.form("HardwareID")% "', "%request.form("HardwareType")% "')"
             conn.execute(sql)
             sql="INSERT INTO HardwareLab(HardwareID, LabID)
Values("%request.form("HardwareID")% "', "%request.form("LabID")% "')"
             conn.execute(sql)
             sql="INSERT INTO LabSoftware(SoftwareID, LabID)
Values("% request.form("SoftwareID")% "', "% request.form("LabID")% "')"
             conn.execute(sql)
                   sql="INSERT INTO Software(SoftwareID, Software)
Values("&request.form("SoftwareID2")&"', "&request.form("Software2")&"')"
```

```
conn.execute(sql)
            sql="INSERT INTO Hardware(HardwareID, HardwareType)
Values("%request.form("HardwareID2")& "', "%request.form("HardwareType2")&
"")"
            conn.execute(sql)
            sql="INSERT INTO HardwareLab(HardwareID, LabID)
Values("% request.form("HardwareID2")% "', '"% request.form("LabID")% "')"
            conn.execute(sal)
            sql="INSERT INTO LabSoftware(SoftwareID, LabID)
Values("% request.form("SoftwareID2") & "', "% request.form("LabID") & "')"
            conn.execute(sql)
        elseif request.form("hardwareID")<>"" AND
request.form("hardwareType")<>"" AND request.form("HardwareID2")="" AND
request.form("HardwareType2")=""then
             sql="INSERT INTO Software(SoftwareID, Software)
Values("%request.form("SoftwareID")%", "%request.form("Software")%")"
            conn.execute(sal)
             sql="INSERT INTO Hardware(HardwareID, HardwareType)
Values("&request.form("HardwareID")& "', "krequest.form("HardwareType")& "')"
             conn.execute(sql)
             sql="INSERT INTO HardwareLab(HardwareID, LabID)
Values("%request.form("HardwareID")% "', "%request.form("LabID")% "')"
             conn.execute(sql)
             sql="INSERT INTO LabSoftware(SoftwareID, LabID)
Values("%request.form("SoftwareID")% "', "%request.form("LabID")% "')"
             conn.execute(sql)
             sql="INSERT INTO Software(SoftwareID, Software)
Values("%request.form("SoftwareID2")%", "%request.form("Software2")%")"
             conn.execute(sql)
             sql="INSERT INTO LabSoftware(SoftwareID, LabID)
Values("%request.form("SoftwareID2")% "', "%request.form("LabID")% "')"
             conn.execute(sql)
    elseif request.form("softwareID")<>"" AND request.form("software")<>"" AND
request.form("softwareID2")="" AND request.form("software2")=""then
             sql="INSERT INTO Software(SoftwareID, Software)
Values("%request.form("SoftwareID")%", "%request.form("Software")%")"
             conn.execute(sql)
             sql="INSERT INTO Hardware(HardwareID, HardwareType)
Values("%request.form("HardwareID")% "', "%request.form("HardwareType")% "')"
             conn.execute(sql)
```

```
sql="INSERT INTO HardwareLab(HardwareID, LabID)
Values("%request.form("HardwareID")% "', "%request.form("LabID")% "')"
            conn.execute(sql)
            sgl="INSERT INTO LabSoftware(SoftwareID, LabID)
Values("&request.form("SoftwareID")& "', ""&request.form("LabID")& "')"
            conn.execute(sql)
            sql="INSERT INTO Hardware(HardwareID, HardwareType)
Values("%request.form("HardwareID2")% "', "%request.form("HardwareType2")%
"")"
            conn.execute(sql)
            sql="INSERT INTO HardwareLab(HardwareID, LabID)
Values("%request.form("HardwareID2")% "', "%request.form("LabID")% "')"
            conn.execute(sql)
    end if
 %>
      <BODY style="font-size:13; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa" >
   response.write "<CENTER><BR><font size=6>"& request.form("labName") &
" was added successfully<br></font>"
end select
if useraction ="add" Then
    response.write "<Form Name=form action='add4.asp?action=add'
Method=POST>"
      end if
   response.write "<BODY style=font-size:12; font-family:Arial; font-weight:600;
line-height: 1.3; leftmargin=140 rightmargin=140 bgcolor=#1e51e4 Text=000000
alink=yellow vlink=yellow>"
       response.write "<form name=addform action='add4.asp?action=add'
Method=POST onsubmit='return check_form()' >"
       response.write "<CENTER><FONT SIZE=4 color=ffeedd><B>Add
hardware and software</b></font></center>"
   response write "<CENTER><TABLE valign=top BGCOLOR='3faf9f'
BORDER=1>"
   response.write "<BR><TR><TD colspan=2><center><b>Hardware Table<b>
</Td><TD></Td>"
   response.write "<BR><TD><center><b>Software Table</b> </Td>"
   response.write "<BR><TD><center><b>Hardware ID
```

```
<HTML><Head><TITLE>Add a record</TITLE><link rel="stylesheet"
type="text/css" href="stylesheet.css">
</Head>
<BODY style="font-size:13; font-family:Arial, Verdana, Helvetica; font-weight:600;
line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa" ><CENTER><BR><BR><BR><
A Href="index.html">Main Page</a> | <A Href="add.html">Add Lab</a> | <A Href="add.html">Add Lab</a> | <A Href="del.html">
Search Records</a> | <a href="editLab.asp">Edit Records</a> | <A Href="del.html">
Delete Lab</a></BR><<BR><BR><BR><BR><BR><BR><BR></BODY></HTML>
<!-- ----- add1.asp ENDS ------ -->
```

```
<!-- ---- add2.asp BEGINS ----- -->
<HTML><HEAD><TITLE>ADD A RECORD</TITLE>
<SCRIPT Language=JavaScript>
</SCRIPT><STYLE>
a:hover{color:red}
</STYLE><link rel="stylesheet" type="text/css" href="stylesheet.css">
</HEAD>
<h1><center>Faculty Development Center for the Advancement of
Technology, Teaching and Learning</center></h1>
Inventory</center></h2>
 <BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa">
<% Dim useraction, pwd
Dim dsn, sql1, conn, rs
Dim LabID, LabName, LabHours, LabMonitor, NumComputers, Phone,
HardwareID, HardwareType, SoftwareID, Software, UserName, id, found,
dummy
useraction=Request("action")
pwd=Request("pwd")
dsn="DBQ=" & Server.Mappath("labspecs3.mdb") & ";Driver={Microsoft Access
Driver (*.mdb));"
set conn = server.createObject("adodb.connection")
conn.open dsn
Select Case useraction
Case "edit", "del", "add"
 sql1="SELECT pwd FROM login WHERE pwd="" & request.form("pwd") & """
 set rs = server.createObject("adodb.recordset")
 rs.open sql1, conn
 found=0
 do while not rs.eof
  if rs("pwd") = pwd Then
   found=1
      response.write "<BODY style=font-size:12; font-family:Arial; font-
weight:600; line-height:1.3; leftmargin=140 rightmargin=140 bgcolor=#1e51e4
Text=000000 alink=yellow vlink=yellow>"
      response.write "<form name=addform action='add1.asp?action=add'
Method=POST onsubmit='return check_form()' >"
      response.write "<CENTER><FONT SIZE=6 color=ffeedd><B>Add New
Lab</b></font></center>"
      response.write "<Table Border=1 Width=360>"
```

```
response.write "<CENTER><TABLE valign=top BGCOLOR='3faf9f'
BORDER=1>"
   response.write "<BR><TR><TD><font color=000000>LabID:
</font></Td><TD><INPUT Type=Text size=20 Name=LabID Value=" & LabID &
"></Td></Tr>"
   response.write "<BR><TR><TD><font color=000000>Lab Name:
</font></Td><TD><INPUT Type=Text size=20 Name=LabName Value=" &
LabName & "></Td></Tr>"
   response.write "<BR><TR><TD><font color=000000>Lab Hours:
</font></Td><TD><INPUT Type=Text size=20 Name=LabHours Value=" &
LabHours & "></Td></Tr>"
   response.write "<BR><TR><TD><font color=000000>Lab Monitor:
</font></Td><TD><INPUT Type=Text size=20 Name=LabMonitor Value=" &
LabMonitor & "></Td></Tr>"
   response.write "<BR><TR><TD><font color=000000>Number of Computers:
</font></Td><TD><INPUT Type=Text size=20 Name=NumComputers Value="
& NumComputers & "></Td></Tr>"
   response.write "<BR><TR><TD><font color=000000>Phone:
</font></Td><TD><INPUT Type=Text size=20 Name=Phone Value=" & Phone
& "></Td></Tr>"
   response.write "<CENTER><TABLE valign=top BGCOLOR='3faf9f'
BORDER=1>"
   response.write "<BR><TR><TD colspan=2><center><b>Hardware Table<b>
</Td></Td>colspan=2><b><center>Software Table</center></b>
   response.write "<BR><TD><center><b>Hardware ID
response.write "<BR><TD><center><b>Software ID
</b><center><b>Software Name</Tr></center>"
   response.write "<BR><TR><TD><INPUT Type=Text size=20
Name=HardwareID Value=" & HardwareID & "></Td>"
   response.write "<INPUT Type=Text size=20 Name=HardwareType
Value=" & HardwareType & "></Td>"
   response.write "<INPUT Type=Text size=20 Name=softwareID Value="
& softwareID & "></Td>"
   response.write "<INPUT Type=Text size=20 Name=software Value=" &
software & "></Td></Tr>"
   response.write "<BR><TR><TD><INPUT Type=Text size=20
Name=HardwareID2 Value=" & HardwareID2 & "></Td>"
   response.write "<INPUT Type=Text size=20 Name=HardwareType2
Value=" & HardwareType2 & ">"
   response.write "TD><INPUT Type=Text size=20
Name=softwareID2 Value=" & softwareID2 & "></Td>"
   response.write "<INPUT Type=Text size=20 Name=software2 Value="
& software2 & "></Td></Tr>"
```

```
response.write "<BR><TR><TD colspan=3><center><INPUT
Type='Submit' Value='Add'></center></Tr></form>"
exit do
   end if
   dool
   if found=0 Then
%>
<BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa">
<%
response.write "<Center><font-size:12; font-family:Arial, Verdana, Helvetica;
font-weight:600; line-height:1.3; leftmargin=140 rightmargin=140
bgcolor=#1e51e4 Text=ffeedd vlink=ffaaaa>Record with entered Password
<B>" & pwd & "'</b> not found<BR><BR></font></font size=3>Or, you did not
enter your Password correctly<BR><BR>Press Back button and re-enter your
Password</font>"
end if
end select
%>
<BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-weight:600;
line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="000000" alink="yellow" vlink="yellow">
</Tr></center></Form>
<BR><BR><CENTER>
<A Href="index.html">Main Page</a> | <A Href="add.html">Add Lab</a> | <A
Href="search1.asp">
Search Records</a> | <a href="editLab.asp">Edit Records</a> | <A
Href="del.html">
Delete Lab</a><BR><BR><BR><BR>
</CENTER>
</BODY></HTML>
<!-- ----- add2.asp ENDS ----- -->
```

```
<!-- ----- add3.asp BEGINS ----- -->
<HTML><HEAD><TITLE>ADD A RECORD</TITLE>
<SCRIPT Language=JavaScript>
<!--Hide from old browsers
function check_form()
{
 valid=true;
'if (document.addform.LabHours.value.length==0)
'{ valid=false; alert('LabHours field is empty!');
'document.addform.LabHours.focus(); return false}
}
//-->
</SCRIPT><STYLE>
a:hover{color:red}
</STYLE><link rel="stylesheet" type="text/css" href="stylesheet.css">
</HEAD>
<tn><t
Technology, Teaching and Learning</center></h1>
Inventory</center></h2>
 <BODY style="font-size:12; font-family: Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa">
<% Dim useraction, pwd
Dim dsn, sql1, conn, rs
Dim LabID, LabName, LabHours, LabMonitor, NumComputers, Phone,
HardwareID, HardwareType, SoftwareID, Software, UserName, id, found,
dummy
useraction=Request("action")
pwd=Request("pwd")
dsn="DBQ=" & Server.Mappath("labspecs3.mdb") & ";Driver={Microsoft Access
Driver (*.mdb)};"
set conn = server.createObject("adodb.connection")
conn.open dsn
     if useraction ="add" Then
    response.write "<Form Name=form action='add4.asp?action=add'
Method=POST>"
     end if
   response.write "<BODY style=font-size:12; font-family:Arial; font-weight:600;
line-height:1.3; leftmargin=140 rightmargin=140 bgcolor=#1e51e4 Text=000000
alink=yellow vlink=yellow>"
```

response.write "<form name=addform action='add4.asp?action=add' Method=POST onsubmit='return check_form()' >" response.write "<CENTER>Add hardware and software</center>" response.write "<center>

<TR><TD>" & request.form("labName") & "Please enter LabID from previous page</Td><INPUT Type=Text size=20 Name=LabID Value=" & LabID & "></Td></Td>" response.write "<CENTER><TABLE valign=top BGCOLOR='3faf9f' BORDER=1>" response.write "
<TR><TD colspan=2><center>Hardware Table </Td><TD></Td>" response.write "
<TD><center>Software Table </Td>" response.write "
<TD><center>Hardware ID response.write "
<TD><center>Software ID <center>Software Name</Tr></center>" response.write "
<TR><TD><INPUT Type=Text size=20 Name=HardwareID Value=" & HardwareID & "></Td><INPUT Type=Text size=20 Name=HardwareType Value=" & HardwareType & "></Td>Value=" & softwareID & "></Td><TD><INPUT Type=Text size=20 Name=software Value=" & software & "></Td></Tr>" response.write "
<TR><TD><center><INPUT Type='Submit' Value='Add'></center></Tr></form>" %> <BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; fontweight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4" Text="ffeedd" vlink="ffaaaa"> <BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-weight:600;</p> line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4" Text="000000" alink="yellow" vlink="yellow"> </Tr><!--</Table></Center>
<CENTER> <INPUT Type='Submit' Value='Add'>--> </center></Form>

<CENTER> Main Page | Add Lab | Search Records | Edit Records | Delete Lab

</ENTER>

</BODY></HTML>
<!-- ----- add3.asp ENDS ----- -->

```
<!-- ----- add4.asp BEGINS ----- -->
<%
option explicit
Dim useraction
Dim dsn, sql, conn, rs
Dim LabName
useraction=Request("action")
Select Case useraction
 Case "add"
  dsn="DBQ=" & Server.Mappath("labspecs3.mdb") & ";Driver={Microsoft
Access Driver (*.mdb)};"
  set conn = server.createObject("adodb.connection")
  set rs = server.createObject("adodb.recordset")
  conn.open dsn
   if request.form("HardwareID")<>"" AND request.form("HardwareType")<>""
AND request.form("SoftwareID")<>"" AND request.form("Software")<>"" then
      sql="INSERT INTO Software(SoftwareID, Software)
Values("&request.form("SoftwareID")&"', ""&request.form("Software")&"')"
             conn.execute(sql)
             sql="INSERT INTO Hardware(HardwareID, HardwareType)
Values("%request.form("HardwareID")% "', "%request.form("HardwareType")% "')"
             conn.execute(sal)
             sql="INSERT INTO HardwareLab(HardwareID, LabID)
Values("%request.form("HardwareID")% "', "%request.form("LabID")% "')"
             conn.execute(sql)
             sql="INSERT INTO LabSoftware(SoftwareID, LabID)
Values("%request.form("SoftwareID")% "', "%request.form("LabID")% "')"
             conn.execute(sql)
        elseif request.form("HardwareID")<>"" AND
request.form("HardwareType")<>"" AND request.form("SoftwareID")="" AND
request.form("Software")="" then
      sql="INSERT INTO Hardware(HardwareID, HardwareType)
Values("%request.form("HardwareID")% "', "%request.form("HardwareType")% "')"
             conn.execute(sql)
             sql="INSERT INTO HardwareLab(HardwareID, LabID)
Values("%request.form("HardwareID")% "', "%request.form("LabID")% "')"
             conn.execute(sql)
   elseif request.form("HardwareID")="" AND request.form("HardwareType")=""
AND request.form("SoftwareID")<>"" AND request.form("Software")<>"" then
      sql="INSERT INTO Software(SoftwareID, Software)
Values("&request.form("SoftwareID")&"', ""&request.form("Software")&"')"
```

conn.execute(sql) sql="INSERT INTO LabSoftware(SoftwareID, LabID) Values("%request.form("SoftwareID")% "', "%request.form("LabID")% "')" conn.execute(sql) end if %> <BODY style="font-size:13; font-family:Arial, Verdana, Helvetica; fontweight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4" Text="ffeedd" vlink="ffaaaa" > <% response.write "<CENTER>
"& request.form("labName") & " was added successfully
" end select if useraction ="add" Then response.write "<Form Name=form action='add4.asp?action=add' Method=POST>" end if response.write "<BODY style=font-size:12; font-family:Arial; font-weight:600; line-height: 1.3; leftmargin=140 rightmargin=140 bgcolor=#1e51e4 Text=000000 alink=yellow vlink=yellow>" response.write "<form name=addform action='add4.asp?action=add' Method=POST onsubmit='return check_form()' >" response.write "<CENTER>Add hardware and software</center>" response.write "<CENTER><TABLE valign=top BGCOLOR='3faf9f' BORDER=1>" response.write "
<TR><TD colspan=2><center>Hardware Table </Td><TD></Td>" response.write "
<TD><center>Software Table </Td>" response.write "
<TD><center>Hardware ID <center>Hardware Type" response.write "
<TD><center>Software ID <center>Software Name</Tr></center>" response.write "
<TR><TD><INPUT Type=Text size=20 Name=HardwareID Value=" & HardwareID & "></Td><INPUT Type=Text size=20 Name=HardwareType Value=" & HardwareType & "></Td><INPUT Type=Text size=20 Name=softwareID Value=" & softwareID & "></Td><TD><INPUT Type=Text size=20 Name=software Value=" & software & "></Td></Tr>" response.write "<INPUT Type=Text size=20 Name=LabID Value=" & request.form("LabID") & ">" response.write "
<TR>

Value='Add'></center></Tr></form>"

```
%>
<HTML><Head><TITLE>Add a record</TITLE><link rel="stylesheet"
type="text/css" href="stylesheet.css">
</Head>
<BODY style="font-size:13; font-family:Arial, Verdana, Helvetica; font-weight:600;
line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa" ><CENTER><BR><BR><BR><A Href="index.html">Main Page</a> | <A Href="add.html">Add Lab</a> | <A
Href="search1.asp">
Search Records</a> | <a href="editLab.asp">Edit Records</a> | <A
Href="del.html">
Delete Lab</a><<BR><BR><BR><BR><BR><</R>
</CENTER>
</BODY></HTML>
<!-- ----- add4.asp ENDS ------ -->
```

```
<!-- ---- add5.asp BEGINS ----- -->
<HTML><HEAD><TITLE>ADD A RECORD</TITLE>
<SCRIPT Language=JavaScript>
<!--Hide from old browsers
function check form()
 valid=true;
'if (document.addform.LabHours.value.length==0)
'{ valid=false; alert('LabHours field is empty!');
'document.addform.LabHours.focus(); return false}
}
//-->
</SCRIPT><STYLE>
a:hover{color:red}
</STYLE><link rel="stylesheet" type="text/css" href="stylesheet.css">
</HEAD>
<h1 align="center">Faculty Development Center for the Advancement of
Technology, Teaching and Learning</h1>
<h2 align="center">Computing Resources
Inventory</h2>
 <BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa">
<% Dim useraction, pwd
Dim dsn, sql1, conn, rs
Dim LabID, LabName, LabHours, LabMonitor, NumComputers, Phone,
HardwareID, HardwareType, SoftwareID, Software, UserName, id, found,
dummy
useraction=Request("action")
pwd=Request("pwd")
dsn="DBQ=" & Server.Mappath("labspecs3.mdb") & ";Driver={Microsoft Access
Driver (*.mdb)};"
set conn = server.createObject("adodb.connection")
conn.open dsn
Select Case useraction
Case "edit", "del", "add"
 sql1="SELECT pwd FROM login WHERE pwd=" & request.form("pwd") & """
 set rs = server.createObject("adodb.recordset")
 rs.open sql1, conn
 found=0
 do while not rs.eof
  if rs("pwd") = pwd Then
```

found=1

response.write "<BODY style=font-size:12; font-family:Arial; fontweight:600; line-height:1.3; leftmargin=140 rightmargin=140 bgcolor=#1e51e4 Text=000000 alink=yellow vlink=yellow>" response.write "<form name=addform action='add1.asp?action=add' Method=POST onsubmit='return check_form()' >" response.write "<CENTER>Add New Lab</center>" response.write "<Table Border=1 Width=360>" response.write "<CENTER><TABLE valign=top BGCOLOR='3faf9f' BORDER=1>" response.write "
<TR><TD>LabID: </Td><TD><INPUT Type=Text size=20 Name=LabID Value=" & LabID & "></Td></Tr>" response.write "
<TR><TD>Lab Name: </Td><TD><INPUT Type=Text size=20 Name=LabName Value=" & LabName & "></Td></Tr>" response.write "
<TR><TD>Lab Hours: </Td><TD><INPUT Type=Text size=20 Name=LabHours Value=" & LabHours & "></Td></Tr>" response.write "
<TR><TD>Lab Monitor: </Td><TD><INPUT Type=Text size=20 Name=LabMonitor Value=" & LabMonitor & "></Td></Tr>" response.write "
<TR><TD>Number of Computers: </Td><TD><INPUT Type=Text size=20 Name=NumComputers Value=" & NumComputers & "></Td></Tr>" response.write "
<TR><TD>Phone: </Td><TD><INPUT Type=Text size=20 Name=Phone Value=" & Phone & "></Td></Tr>" response.write "<CENTER><TABLE valign=top BGCOLOR='3faf9f' BORDER=1>" response.write "
<TR><TD colspan=2><center>Hardware Table </Td><TD></Td><center>Software Table</center>" response.write "
<TD><center>Hardware ID <center>Hardware Type" response.write "
<TD><center>Software ID <center>Software Name</Tr></center>" response.write "
<TR><TD><INPUT Type=Text size=20 Name=HardwareID Value=" & HardwareID & "></Td><INPUT Type=Text size=20 Name=HardwareType Value=" & HardwareType &

& software & "></Td></Tr>"

```
response.write "<BR><TR><TD><INPUT Type=Text size=20
Name=HardwareID2 Value=" & HardwareID2 & "></Td><INPUT Type=Text
size=20 Name=HardwareType2 Value=" & HardwareType2 &
"></Td>Value="
& softwareID2 & "></Td><TD><INPUT Type=Text size=20 Name=software2
Value=" & software2 & "></Td></Tr>"
   response.write "<BR><TR><TD colspan=3><center><INPUT
Type='Submit' Value='Add'></center></Tr></form>"
exit do
   end if
   loop
   if found=0 Then
%>
<BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa">
response.write "<Center><font-size:12; font-family:Arial, Verdana, Helvetica;
font-weight:600; line-height:1.3; leftmargin=140 rightmargin=140
bgcolor=#1e51e4 Text=ffeedd vlink=ffaaaa>Record with entered Password
<B>" & pwd & "'</b> not found<BR><BR></font></font size=3>Or, you did not
enter your Password correctly<BR><BR>Press Back button and re-enter your
Password</font>"
end if
end select
%>
<BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-weight:600;
line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="000000" alink="yellow" vlink="yellow">
</Tr>
<!--</Table></Center><BR><CENTER>&nbsp;<INPUT Type='Submit'
Value='Add'>-->
</center></Form>
<BR><BR><CENTER>
<A Href="index.html">Main Page</a> | <A Href="add.html">Add Lab</a> | <A
Href="search1.asp">
Search Records</a> | <a href="editLab.asp">Edit Records</a> | <A
Href="del.html">
Delete Lab</a><BR><BR><BR><BR>
</CENTER>
```

</BODY></HTML>
<!-- ---- add5.asp ENDS ----- -->

```
<!-- ---- del.asp BEGINS ----- -->
<%
option explicit
Dim useraction, pwd
Dim dsn, sql1, conn, rs
Dim LabID, LabName, LabHours, LabMonitor, NumComputers, Phone,
HardwareID, HardwareType, SoftwareID, Software, UserName, id, found,
dummy
useraction=Request("action")
pwd=Request("pwd")
dsn="DBQ=" & Server.Mappath("labspecs3.mdb") & ";Driver={Microsoft Access
Driver (*.mdb)};"
set conn = server.createObject("adodb.connection")
conn.open dsn
Select Case useraction
Case "edit", "del"
 sql1="SELECT pwd FROM login WHERE pwd="" & request.form("pwd") & """
 set rs = server.createObject("adodb.recordset")
 rs.open sql1, conn
 found=0
 do while not rs.eof
  if rs("pwd") = pwd Then
   found=1
   LabID=request.form("LabID")
   LabName=request.form("LabName")
   LabHours=request.form("LabHours")
    LabMonitor=request.form("LabMonitor")
    NumComputers=request.form("NumComputers")
    Phone=request.form("Phone")
    HardwareID=request.form("HardwareID")
    HardwareType=request.form("HardwareType")
    SoftwareID=request.form("SoftwareID")
    Software=request.form("Software")
%>
 <BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa">
<%
    if useraction="del" Then
     response.write "<Center><BR><Font Size=6><B>DELETE A
LAB</b></Font>"
    end if
    response.write "<Table Border=1 Width=360>"
```

```
if useraction ="del" Then
    response.write "<Form Name=LabName action='del1.asp?action=del'
Method=POST>"
   end if%>
   <%response.write "<INPUT Type=Hidden Name=id Value=" & id & ">"
   response.write "<INPUT Type=Hidden Name=pwd Value=" & pwd & ">"
   response.write "<BR>"
   'response.write "<BR><TR><TD><font color=000000>"
  response.write "<BR><TR><TD>"
accessdb="labspecs3"
cn="DRIVER={Microsoft Access Driver (*.mdb)};"
cn=cn & "DBQ=" & server.mappath(accessdb)
Set rs = Server.CreateObject("ADODB.Recordset")
rs.maxrecords=15
sql = "select labName, labID from lab"
rs.Open sql, cn
%>
<select size="1" Style='Background-Color:yellow' name='labName'>
<option>Select
<%
On Error Resume Next
rs.MoveFirst
do while Not rs.eof
title= rs("labName")
labID = rs("labID")
%>
<!--<option value="<%= server.urlencode(labName)%>"><%= title %></option>--
<option value="<%=title%>"><%= title %></option>
<%
rs.MoveNext
loop%><%
conn.close
set conn=Nothing
'rs.close
SET rs=Nothing%>
 </select><%
   'response.write "<BR><TR><TD><font color=000000>Lab Name:
</font></Td><TD><INPUT Type=Text size=20 Name=LabName Value=" &
LabName & "></Td></Tr>"
   response.write "<BR><TR><TD Colspan=2 Align='Center'><INPUT
Type='submit' Value='Delete Lab'></Td></Tr></Table>"
   response.write "<!--#include file='footer.inc'-->"
```

```
exit do
 end if
loop
if found=0 Then
<BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa">
<%
response.write "<Center><font size=+2 color=#334488>Record with entered
Password <B>" & pwd & "'</b> not found<BR><BR></font></font size=3>Or,
you did not enter your Password correctly<BR><BR>Press Back button and re-
enter your Password</font>"
end if
end select
%>
<HTML><HEAD><TITLE>CONFIRMING YOUR PASSWORD</Title><link</p>
rel="stylesheet" type="text/css" href="stylesheet.css">
</Head>
<BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-weight:600;</p>
line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#abcdef"
Text="ffeedd" vlink="ffaaaa">
<!--#include file="footer.inc"--><BR><BR><BR><BR>>
</CENTER></BODY></HTML>
<!-- ---- del.asp ENDS ----- -->
```

```
<!-- ---- del.html BEGINS ----- -->
<HTML><HEAD><TITLE>DELETE A RECORD</TITLE>
<SCRIPT Language=JavaScript>
<!-->Hide from old browsers
function check_form()
 valid=true;
if (document.addform.pwd.value.length==0)
{ valid=false; alert('Password field is empty!');
document.addform.pwd.focus(); return false}
//-->
</SCRIPT><STYLE>
a:hover{color:red}
</STYLE><link rel="stylesheet" type="text/css" href="stylesheet.css">
</HEAD>
<BODY style="font-size:12; font-family:Arial, Verdana, Helvetica; font-weight:600;
line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" alink="yellow" vlink="yellow">
<Center>
<h1><center>Faculty Development Center for the Advancement of
Technology, Teaching and Learning</center>
 <h1></h1>
 <h2><center>Computing Resources Inventory</center>
 <h2></h2>
 <font size="6">Delete a Lab</font><BR><BR>
<Form Name=addform Action="del.asp" Method="POST" onsubmit='return</p>
check_form()'>
<Table Border="0" Width="280">
<TR><TD Align="Right">Your Password *: </Td><TD><INPUT Type="password"
name=pwd Size=20></Td></Tr>
<TR><TD Colspan=2><INPUT Type="Hidden" Name="action"
Value="del"></TD></TR>
<TR><TD></TD><TD><BR><INPUT Type="Submit" Value="MyRecord?"
action="locate.asp?pwd="&rs("pwd")></Td></Tr>
</Table></Form><h2><BR><BR><
<A Href="index.html"><font size="2">Main Page</font></a><font size="2"> | <A
Href="add.html">Add Lab</a> | <A Href="search1.asp">
```

```
<!-- ---- del1.asp BEGINS ----- -->
<%
 Dim useraction
Dim dsn, sql, conn, rs
Dim LabName
useraction=Request("action")
Select Case useraction
 Case "del"
  dsn="DBQ=" & Server.Mappath("labspecs3.mdb") & ";Driver={Microsoft
Access Driver (*.mdb)};"
  set conn = server.createObject("adodb.connection")
  set rs = server.createObject("adodb.recordset")
  conn.open dsn
   if request.form("labName")<>"" then
      'sgl="DELETE labName FROM Lab, LabSoftware WHERE LabName =
request.form("labName") and (Lab.labID = LabSoftware.labID)"
      sql="DELETE labName FROM Lab WHERE LabName = " &
Request.form("labName") & """
   conn.execute(sql)
   " & Request.form("labName") & ""
   'LabName, LabHours, LabMonitor, numComputers, phone)
Values("&request.form("LabID")&"', ""&request.form("LabName")&"',
""&request.form("LabHours")&"", ""&request.form("LabMonitor")&"",
""&request.form("numComputers")&"", ""&request.form("phone")&"")"
   'sgl="DELETE FROM Software WHERE (LabName =
""&request.form("LabName")&"")"
   'conn.execute(sql)
   'sql="DELETE FROM Software(SoftwareID, Software)
Values("%request.form("SoftwareID")%", "%request.form("Software")%")"
   'conn.execute(sql)
   'sgl="DELETE FROM Hardware(HardwareID, HardwareType)
Values("%request.form("HardwareID")% "', "%request.form("HardwareType")% "')"
   'conn.execute(sql)
   'sgl="DELETE FROM HardwareLab(HardwareID, LabID)
Values("%request.form("HardwareID")% "', "%request.form("LabID")% "')"
   'conn.execute(sql)
   'sgl="DELETE FROM LabSoftware(SoftwareID, LabID)
Values("%request.form("SoftwareID")% "', "%request.form("LabID")% "')"
   'conn.execute(sql)
   end if
 %>
```

```
<BODY style="font-size:13; font-family:Arial, Verdana, Helvetica; font-
weight:600; line-height:1.3;" leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa" >
 <%
   response.write "<CENTER><BR><font size=6>The record deleted
successfully</font></Center><BR><BR>"
end select
%>
<HTML><Head><TITLE>Delete a record</TITLE><link rel="stylesheet"</pre>
type="text/css" href="stylesheet.css">
</Head>
<BODY style="font-size:13; font-family:Arial, Verdana, Helvetica; font-weight:600;</p>
line-height: 1.3; "leftmargin=140 rightmargin=140 bgcolor="#1e51e4"
Text="ffeedd" vlink="ffaaaa" ><CENTER><BR><BR>
<A Href="index.html">Main Page</a> | <A Href="add.html">Add Lab</a> | <A
Href="search1.asp">
Search Records</a> | <a href="editLab.asp">Edit Records</a> | <A
Href="del.html">
Delete Lab</a><BR><BR><BR><BR>
</CENTER>
</BODY></HTML>
<!-- ----- del1.asp ENDS ----- -->
```

Table A1: Table Design I

Hardware Table, HardwareLab Table, LabSoftware Table and Software Table

<u> </u>		プロール Andreware Cabi Cabi Cabi Cabi Cabi Cabi Cabi Cabi									Software : Table			
T	h	rdwareID	HardwareType	П	labID	hardwareID	П	labID	softwareID		T	softwareID	softwa	
	+	1	Flat Screen	1	4	2	1	4	3	•	+		MS Windows 98	
1	+	2	Standard Monitor		4	4		4	4		+		MS Windows 2000	
1	+	3	19 inch Screen	П	4	6		4	5		+		MS Windows XP	
1	+	4	17 inch Screen	П	4	7		4	6		+		MS Word	
+		5	15 inch Screen	П	4	8		4	7		+		MS Excel	
+			Floppy Drive		4	11		4	8		+		MS Access	
+			CD Drive		4	13		4	9		+		MS PowerPoint	
4	+			П	4	14		4	10		+		MS FrontPage	
	+		Zip Drives	П	4	15		4	11		+		MS Outlook	
	+		DVD Drive		5	2		4	13		+		MS Internet Explorer	
	+	10	CD-RW		5	4		4	14		+		MS Visual Studio .Net	
1	+	11	DVD-RW		5	7		4	16		+		Adobe Acrobat Distiller 6.0	
1	+	12	USB		5	8		4	17		+		Adobe Acrobat 6.0	
1	+	13	Firewire		5	9		4	18		+		Adobe FrameMaker	
1	+		Speakers		5	10		4	21		+		Adobe PageMaker	
+			15 GB		5			4	25		+		Adobe Photoshop 6.0	
+	.*		20 GB		5	13		4	29		+		Adobe Photoshop 7.0.1	
4	*				5	20	П	4	51		+		Adobe Illustrator	
4	+		25 GB		8	3 2	П	4	57		+		Adobe ImageReady 7.0.1	
	+		30 GB		8	3 4		4	59		+		MS Publisher	
	+		35 GB		8			4	61		+		MSN Messenger 6.1	
1	+	20	40 GB		8	7	П	4	63		+		MSN Messenger 6.0	
1	+	21	50 GB		8	8		4	66		+		Adobe Reader 6.0	
1	+	22	55 GB		8	10		4	67		+		Symantec Antivirus Corporat	
+	+	23	60 GB		8	11		4	68		+		Macromedia Dreamweaver M	
-	_		65 GB		8			4	69		+		Macromedia Flash MX	
-			70 GB		8			4	70		+		Macromedia Director MX	
-	*				9	4		4	72		+		Macromedia Fireworks MX	
4	+		75 GB		9	4		4	73		+		Macromedia Extension Mana	
	+		80 GB		9	6		4	75		+		COBOL	
-1	+	28	150 GB		Ç	3 7		4	76		+	31	C++	

Table A2: Table Design II

Lab Table and login Table

