

Web Education Assistant (WebEA)

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Objectives:

- ?? Modify the “INIT.CLASS” file to support the use of SSL
- ?? Addition of student password.
- ?? Addition of “Course Catalog” and its subsequent modifications in “Computer Assignments”.

Modifying the “INIT.CLASS” for SSL

In the following a full specification of the changes to the “INIT.CLASS” file:

Line #	Syntax	Description
1	<i>[COMMON]</i>	Start of the ‘COMMON’ section.
2	<i>Server=http://YourServerName/</i>	Specifying the HTTP server that will be used with normal connections and Database secured connections (UseSSL=0 & UseSSL=1)
3	<i>Path=hesweb10/</i>	Specifying the path under the server containing the application folder. Also, this will be used with UseSSL=0 & 1.
4	<i>IDLength=0</i>	A flag to indicate whether to use SSN or Login ID.
5	<i>SSLServer=https://your.domain.name/</i>	Specifying the HTTPS server. This will be used only with secured connections (UseSSL=2).
6	<i>SSLPath=webhes10/</i>	Specifying the path under the server indicated above. This will be used with UseSSL=2.
7	<i>UseSSL=0</i>	A flag to indicate the connection type: 0 = Normal Connections. 1 = Database Connections are only secured. 2 = All Connections are secured.
8	<i>[ASP]</i>	Start of the ‘ASP’ section.
9	<i>DataQuery=hesweb10/ASP/wdtQuery.asp?DSN=Hes51</i>	Specifying the ASP files to be used with normal Database Connections (UseSSL=0).
10	<i>NoDataQuery=hesweb10/ASP/wdtExecSQL.asp?DSN=Hes51</i>	
11	<i>SSLDataQuery=hesweb10/ASP/wdtQuery.asp?DSN=Hes51</i>	Specifying the ASP files to be used with normal Database Connections (UseSSL=1 & 2).
12	<i>SSLNoDataQuery=hesweb10/ASP/wdtExecSQL.asp?DSN=Hes51</i>	
	. . . (continues as the old “INIT.CLASS” file)	

Addition of student password:

Specifications:

The specific password options that are available are:

- ?? **Students Log in with a Password:** Require that users enter a password when logging into the Student.
- ?? **Force Students to change Password:** Require that users change password after the first login.
- ?? **Force Students to change password after ___ days:** Require that users change their passwords at the end of the specified time period.
- ?? **Minimum length for password is ___ characters:** Require a certain minimum length for all passwords. The maximum password length is 30 characters.
- ?? **Other:**
 - o Passwords can be any combination of letters (a-z) and numbers (0-9).
 - o Passwords in the HES are not case sensitive.
 - o Initial password for newly added employees is the last name.
 - o Users can enter a combination of letters and numbers but are not required to do so.
 - o The minimum password length is selectable (down to 1 character). Maximum password length is 30 characters.

Change Password Screen & Actions:

Students can be routed to the change password screen because their password expired or because they chose to go there from the student menu. The first two scenarios below are for expired passwords:

1. The **change password on first use flag** is set (this option is set using the HES administrator superuser tools) AND this is the first time that the student is logging in since the **use student passwords option flag** was set.
2. A value exists for the change password every x days AND it has been that many days since the student last changed their password.
3. The student clicked on the “change password” menu option

The “cancel” button on the change password screen will be dimmed if the student entered the change password screen from scenario 1 or 2 (password expired) above. When entering the change password screen from a “password expired” scenario the student will be forced to choose a new password. If the student enters the change password screen from the menu option they will be allowed to cancel or to keep the same password.

Actions upon clicking on the ‘Save’ button:

Incorrect Old Password

If the student mistyped their old password the incorrect old password message will be displayed. After the student clicks on “OK” they will be taken back to the change password screen with all user entries cleared and the input focus set to the “old password” entry.

Message: “**Old password not confirmed. Please re-enter. If you have forgotten your password you will need to contact your HES system administrator.**”

Password Mismatch

If the new password and the new password confirmation do not match the password mismatch screen will pop up. After the student clicks on “OK” they will be taken back to the change password screen. Both of the new password entry lines will be cleared and the input focus will be set to the new password.

Message: “**The NEW password and the CONFIRMATION password do not match. Please re-enter.**”

Same Password

If the student entered the change password screen from an **expired password** condition then they must select a different password. If the new password is the same as the old password the same password message will pop up. After the student clicks on “OK” they will be taken back to the change password screen. Both of the new password entry lines will be cleared and the input focus will be set to the new password.

Message: “**The NEW password is the same as the OLD password. Please enter a different NEW password.**”

Password characters validation

If the student entered a new password containing characters other than (a-z) and (0-9) the invalid password message will pop up. After the student clicks on “OK” they will be taken back to the change password screen. Both of the new password entry lines will be cleared and the input focus will be set to the new password.

Message: “**The NEW password can only be any combination of letters (a-z, A-Z) and numbers (0-9). Please re-enter.**”

Password length validation

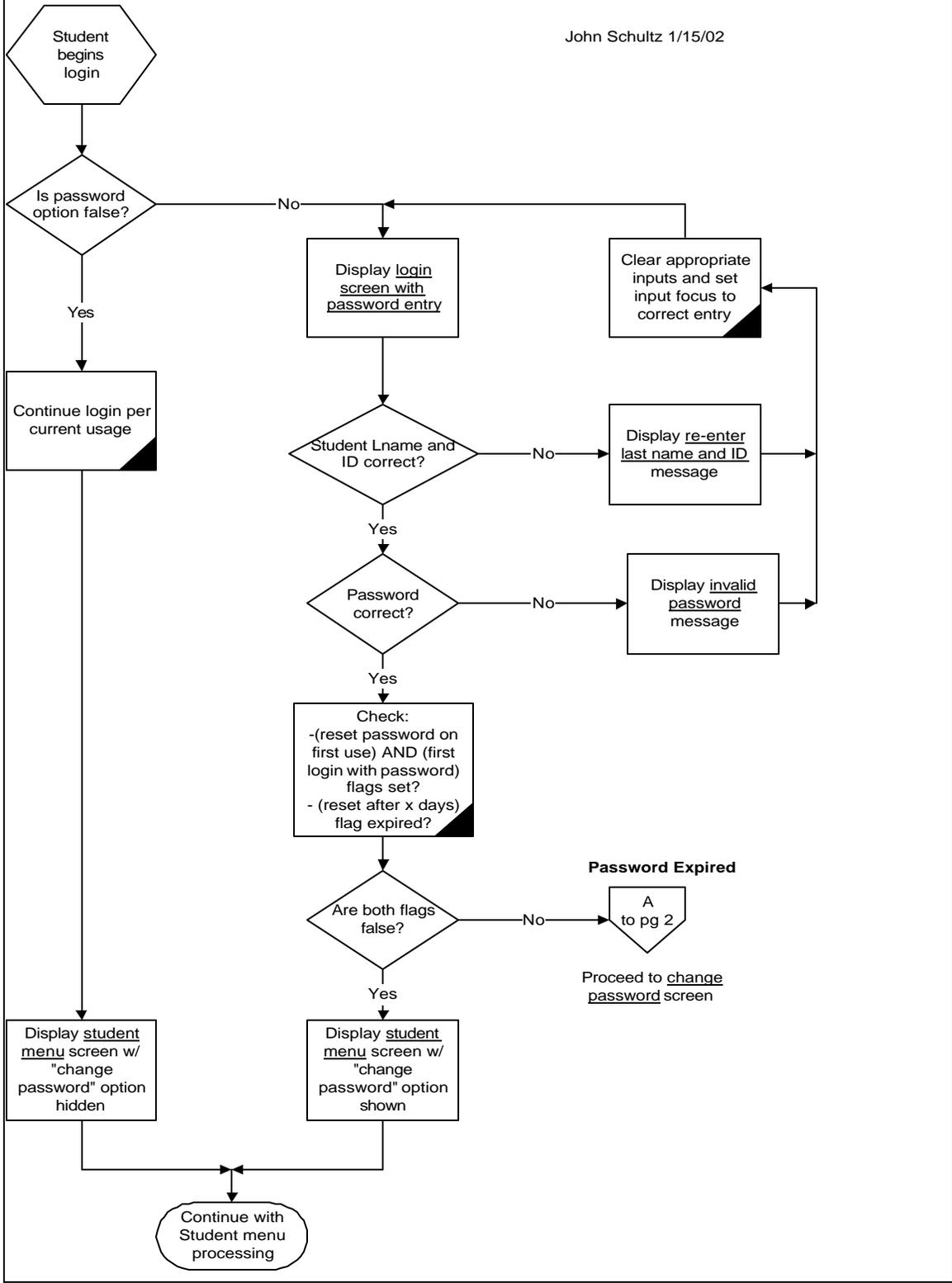
If the student entered a new password with a length less than the **Minimum Password Characters** read from the Database or greater than **30** characters the invalid password message will pop up. After the student clicks on “OK” they will be taken back to the change password screen. Both of the new password entry lines will be cleared and the input focus will be set to the new password.

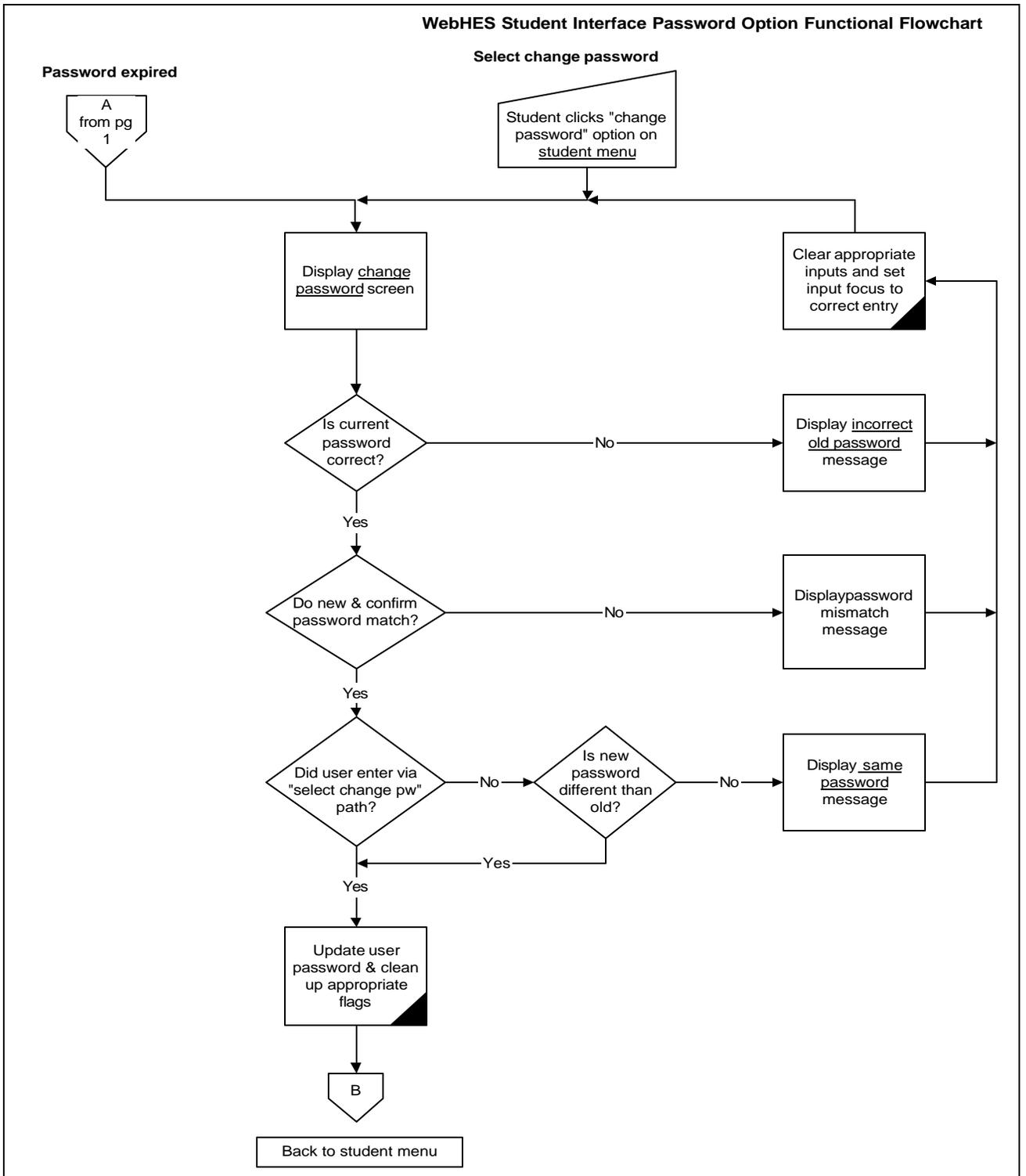
Message: “**The NEW password must be at least MinimumPasswordCharacters. Please re-enter.**” Or Message: “**The NEW password must be at most 30 characters. Please re-enter.**”

Functional Flowcharts:

WebHES Student Interface Password Option Functional Flowchart

John Schultz 1/15/02





WebHes Student Interface Password Option

Technical Specifications:

- First, the required data are selected from the 'Setting' table:
 - *RequireStudPassword*: used to know if students must enter password when logging to the system or not.
 - *ChangePasswordOnFirstLogin*: used to know if students are forced to change password on their first login to the system or not.
 - *ChangePasswordAfterTime*: used to know if students are forced to change password after a specific period of days or not.
 - *PasswordExpirationDays*: used to know the number of days after which students are forced to change their password.
 - *MinPasswordChars*: used to know the minimum password length.
- After that, data are selected from the 'Emp' table:
 - *LoginDS*: used to know if this is the first login of a student, '1/1/1980' indicates the first login of a student.
 - *PasswordLastChanged*: used to know the last date the password of a student was changed.
 - *Password*: the password of a student.

Checks are done as shown in the following:

```
If (RequireStudPassword)
    If (ChangePasswordOnFirstLogin)
        Force student to change password.
    Else if (ChangePasswordAfterTime)
        Compare PasswordExpirationDays with (PasswordLastChanged
        date subtracted from today's date).
        If (password expired)
            Force student to change password.
```

Checks on the new password are done as shown in the following:

```
If old password is not confirmed
    'Old password not confirmed' message is shown.
Else if new password is the same as old password and student was not forced
to change password
    'New password is the same as old password' message is shown.
Else if new password is not confirmed
    'New password confirmation' message is shown.
Else if new password contains characters other than (a-z), (0-9)
    'New password validation' message is shown.
Else if new password length is less than MinPasswordChars or greater then 30
characters
    'New password validation' message is shown.
Else
    Apply password update
    'Password updated successfully' message is shown.
```

Addition of “Course Catalog”:

Functional Specifications:

This specification covers the addition of a **CBT** catalog feature to the student interface of the **WebHES**. The **CBT** course catalog feature will allow the following operations:

- Students will be able to browse a list of **CBT** courses that have been marked as open enrollment
- Students will be able to selectively assign themselves **CBT** open enrollment courses
- Students WILL be able to remove open enrollment courses that they assigned to themselves
- Students WILL NOT be able to remove courses that have been assigned to them by an administrator

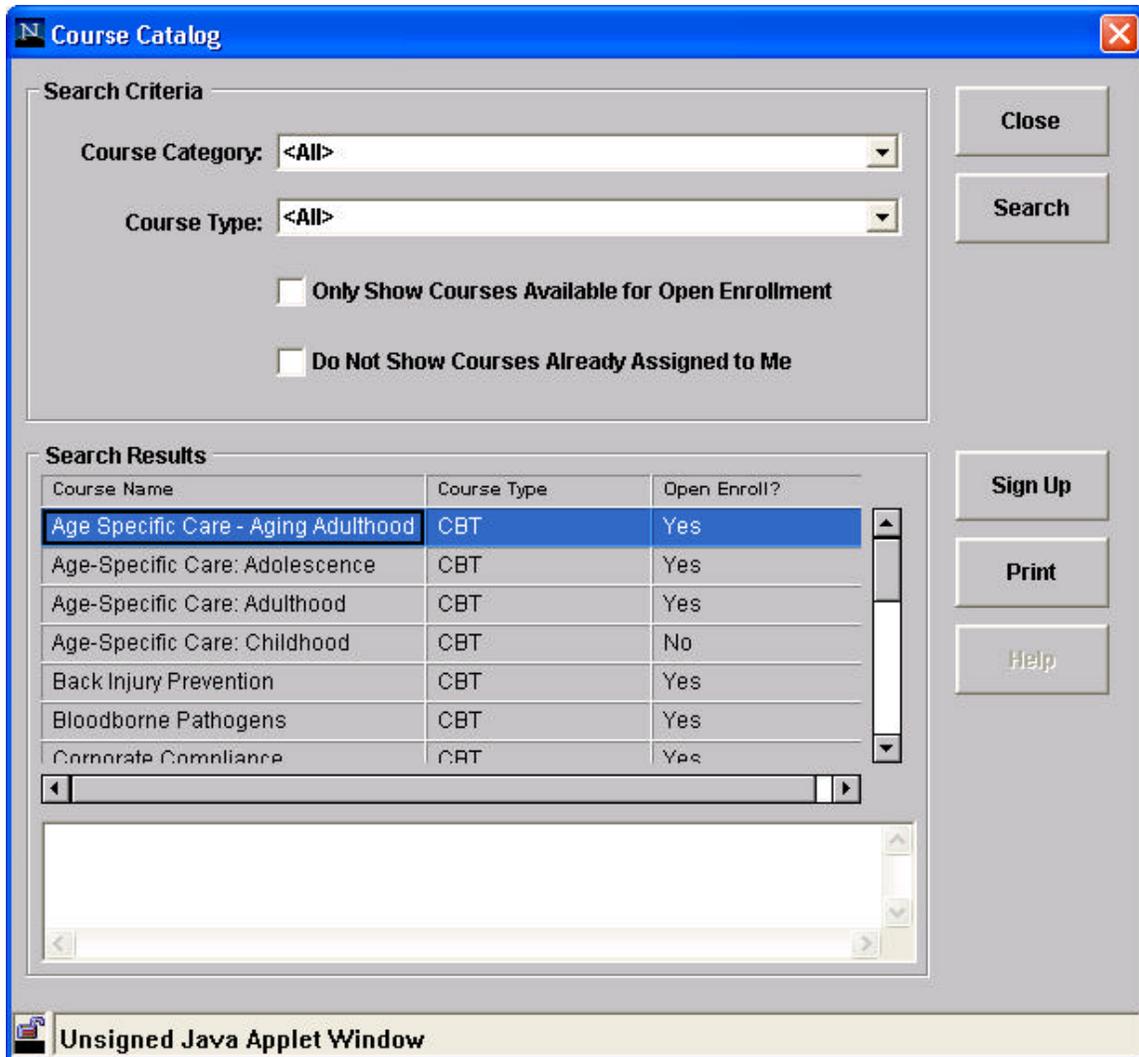
Users with administrator privilege will use the Windows-based administrative interface of the **HES** to mark **CBT** course as open enrollment.

This is the first draft of the specification for adding a **CBT** course catalog feature to the **WebHES** student interface. The graphics and layout of the screens are shown here to illustrate the underlying functionality. The actual look and feel of additional screens should match existing **WebHES** screens.

Technical Specifications:

- **Course Catalog Form:**

A new form is created to satisfy the Course Catalog form specifications, the form is shown next:



Course Catalog Screen

Search Query:

```

SELECT Course.Name, CourseType.Name, Course.OpenEnroll,
Course.Course_ID, Course.Description
FROM Course, CourseType, CourseCat
WHERE Course.CourseType_ID = CourseType.CourseType_ID AND
       Course.CourseCat_ID = CourseCat.CourseCat_ID AND
       Course.Course_ID > 0 AND
       Course.Status <> 0 AND
       Course.InCatalog <> 0
ORDER BY Course.Name

```

- If the 'Only Show Courses Available for Open Enrollment' check box is checked, the condition: "AND Course.OpenEnroll<>0" is added to the WHERE clause.

- If the 'Do Not Show Courses Already Assigned to Me' check box is checked, the condition:

“AND Course.Course_ID NOT IN (SELECT Act.Course_ID FROM Act WHERE Act.Emp_ID=**Employee_ID**)” is added to the WHERE clause.

- If the system is using Stored Procedure version 5.1, the condition:

“AND (Course.Org_ID=0 OR Course.Org_ID IN (SELECT Dept.Org_ID FROM Emp,Dept WHERE Emp.Dept_ID=Dept.Dept_ID AND Emp_ID=**Employee_ID**))” is added to the WHERE clause.

- If a specific course category is chosen (other than 'ALL'), the condition:

“AND Course.CourseCat_ID=**CourseCat_ID**” is added to the WHERE clause.

- If a specific course type is chosen (other than 'ALL'), the condition:

“AND Course.CourseType_ID=**CourseType_ID**” is added to the WHERE clause.

Signup Query:

A new stored procedure is created to perform the course assignment of a specific course for a specific employee; this stored procedure is called 'usp_stud_assign_course_01' receiving two parameters; course id and employee id.

Popup Windows:

When a student tries to enroll himself/herself in a course not opened for enrollment a message appears containing: “***This course is unavailable at this time for open enrollment***”, with title “***Healthcare Education System***”.

When a student tries to enroll himself/herself in a course, a confirmation message appears containing: “***Are you sure you want to add this course to your 'CBT' assignments?***” with title “***Healthcare Education System***”.

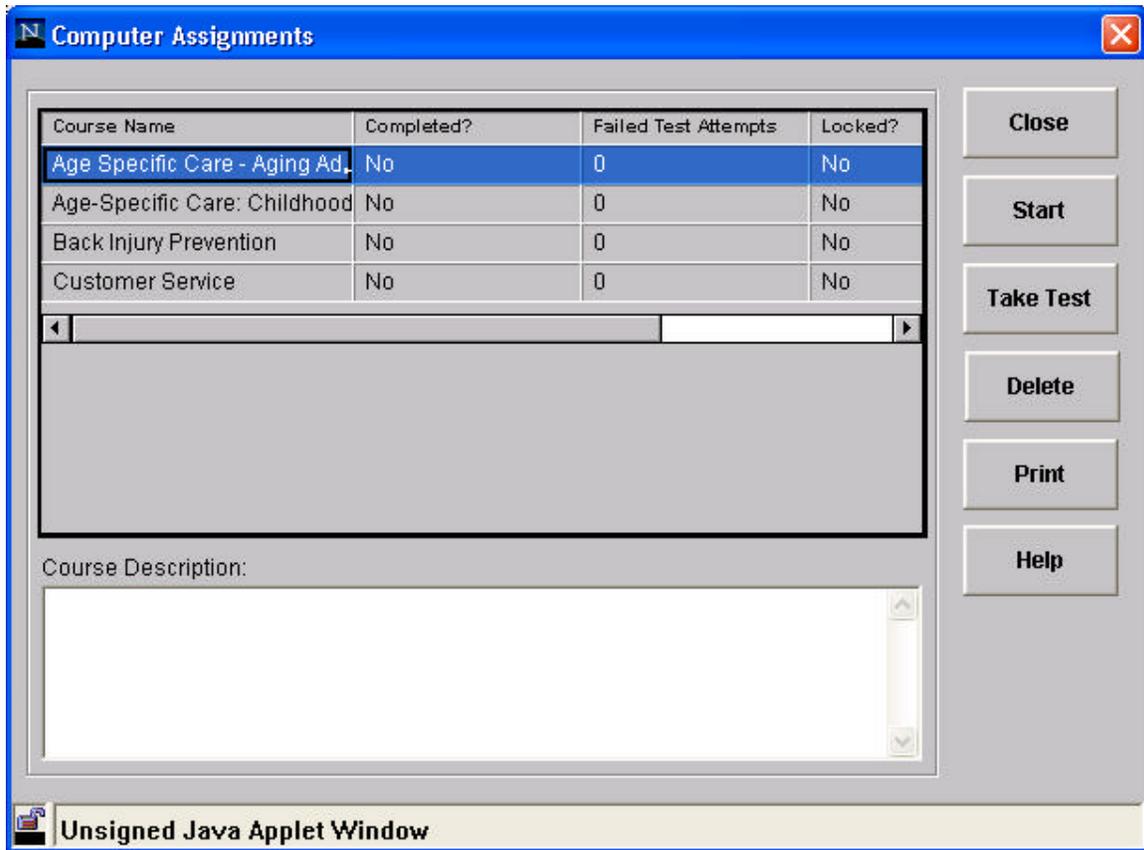
When a student tries to enroll himself/herself in an already assigned course, a message appears containing: “***Assignment already exists for this course***” with title “***Healthcare Education System***”.

When a student tries to enroll himself/herself in a none **CBT** course, a message appears containing “***No classes for this course are available for this time***” with title “***Healthcare Education System***”.

When successful enrollment occurs, a message appears containing: “***Course enrollment successful***” with title “***Healthcare Education System***”.

- o **Computer Assignment Form:**

After modifying the Computer Assignment form, it will be as follows:



Computer Assignments Screen

The **'Delete'** button is the only added component in this form, it will be disabled when selecting a course not opened for enrollment, and otherwise it will be enabled.

When deleting a course, a confirmation message appears containing: **"Are you sure you want to delete this item?"** with title **"Item Deletion"**.

After successful deletion a message appears containing: **"Item deleted successfully"** with title **"Item Deletion"**.

If the deletion failed for any reason, a message appears containing: **"This item can not be deleted"** with title **"Item Deletion"**.

Deletion Query:

A new stored procedure is created to perform the course de-assignment of a specific course for a specific employee; this stored procedure is called 'usp_stud_deassign_course_01' receiving two parameters; course id and employee id.