

State University of New York at New Paltz
Department of Computer Science

Senior Project Report
CPS493

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Table of Contents

Description	1
Design Procedure	2-4
Testing and Verification.....	4
Conclusions.....	5

Description

The project aimed is to keep track the information of the students and the classes they have taken or not in order to see if the student needs to take the appropriate class. Also it can edit the information of the students and change the name on the button. The information of the students would look this:

	<input type="button" value="←"/>	<input type="button" value="→"/>	<input type="button" value="▼"/>	S_ID	S_NAME
<input type="checkbox"/>				N020	John Doe
<input type="checkbox"/>				N021	Mike Vela
<input type="checkbox"/>				N022	Rob Zacks
<input type="checkbox"/>				N023	Ryan Fey
<input type="checkbox"/>				n02345	oscar velasco
<input type="checkbox"/>				N024	Joe Laverde
<input type="checkbox"/>				N025	Bill Olm
<input type="checkbox"/>				N026	Max Smith
<input type="checkbox"/>				N027	Freddy Velez
<input type="checkbox"/>				N028	Jessica Yepez
<input type="checkbox"/>				N029	Jane Grey
<input type="checkbox"/>				N090	Loco Matos
<input type="checkbox"/>				N1987	Gerson Lobos

Table 1. Students

By id and the name of the student in order we can reference to the student we want.

Some of the Technologies used were:

- **Bootstrap**
- **CSS**
- **JavaScript**
- **PHP**
- **JQuery**
- **SQL**
- **Ajax**

Design Procedure

The First thing I had to do was to create a database that would have the information of the students, information of the classes and the Students Records. Second I had to call the information from the students' table in the web site that's when I used the PHP and I also used bootstrap that made look nicer as illustrated here:

Roster of Students:

Student Id	Student Name
N020	John Doe
N021	Mike Vela
N022	Rob Zacks
N023	Ryan Fey
n02345	oscar velasco
N024	Joe Laverde
N025	Bill Olm
N026	Max Smith
N027	Freddy Velez
N028	Jessica Yepez
N029	Jane Grey
N090	Loco Matos
N1987	Gerson Lobos

Table 2. Student Info

Third I would add, edit and delete and Student from the table so I created this three buttons as shown :

The diagram illustrates a user interface for managing student records. At the top, a modal dialog box titled "Add form" contains fields for "Student Id:" and "Student Name:", each with an associated input box. Below these fields is a "Submit" button. Arrows point from the "Add form" dialog to three buttons located below it: "Add Student", "Edit Student", and "Delete Student".

Figure 1. Buttons

Fourth, I would have to create a graph that would look like this:

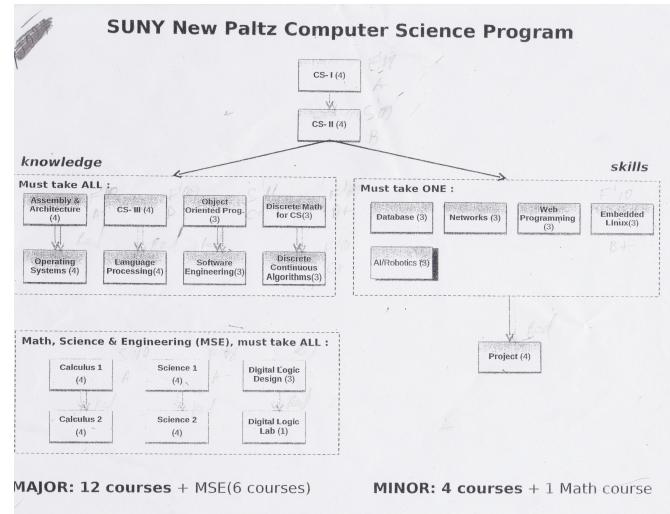


Figure 2.Graph of Classes

Fifth , I based the structure of figure 2 this would look like this:

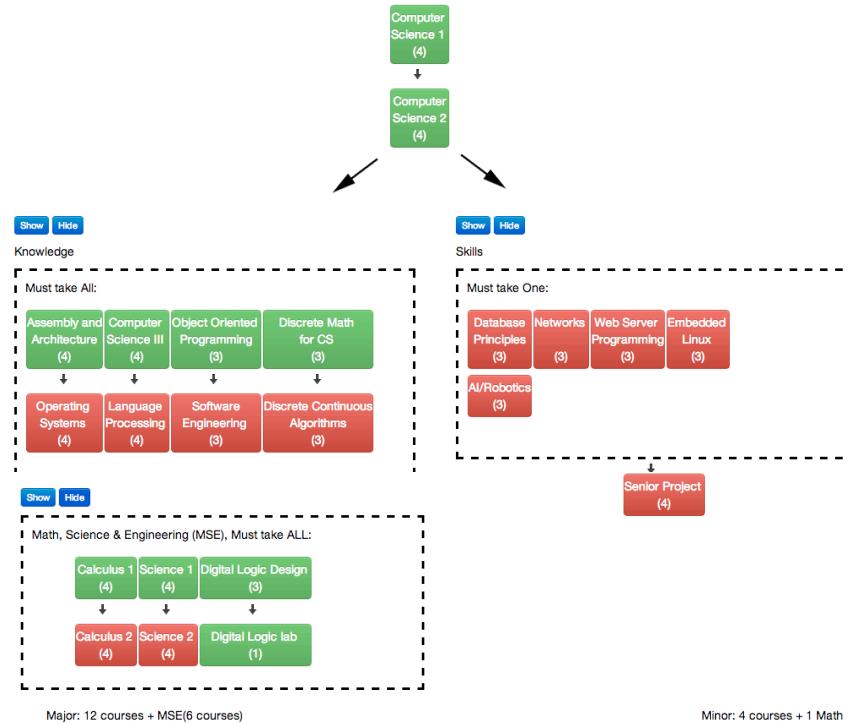


Figure 3.Graph of Classes

Sixth, I connected the two pages by clicking in the name of the student and it would give the record of the classes they have taken or not taken. Seventh, It would check if the student have the class or not and if not it would change the color of the button red and a message would appear when you hover over the button that the class was not taken; otherwise it would turn green and it would give you the information of the course, the semester and the grade of the student for each class. Eighth, I created a show and hide button for each diagram so you can minimize the graph if need it as shown in figure 3. Ninth, I created an edit to each button so the user or administrator can change the name of the button.

Testing and Verification

The procedure I used is to analyze what project aimed was and then I started brainstorming ideas. First I created a database that would hold the information of the students, courses and students records then I called the table of the students from the database into the web site. Second, I created three buttons that would add, edit and delete a student. Once I had this I created the page for the graph of courses and then the two pages would be link by the name of the student. Furthermore I implemented the buttons to show and hide each diagram so it is easier to see the graph. The other thing I add the name of each student at the beginning of the page so you can see what student record are you looking at. I test it the page and it work and it would give me the results I want it.

Conclusions

The main difficulties I had was that I was focus more on the look of the web site rather the functionality of it so I wasted it a lot of time on it because I didn't know about bootstrap at the time. But once I knew about bootstrap it was easy because it help me a lot in order to construct the graph and some of the features that the buttons like hover over among other things that bootstrap have. The accomplished was to build the website and to learned a new technology like bootstrap and Jquery that make things easier when you created a website. In the future to improve my work I would worried first about the functionality of the website rather than the esthetics of it . The other thing is the time because I have a job, which doesn't give a lot of time to work on the project so I would take time off from my job in order to work more on it.