CSC 318: Final project (Fall 2023)

Description

For our final project, you will be creating a set of pages so that students can create a four year plan for their major. We will focus on Math and Computer Science. Besides part 1, the rest will also be graded for good programming: Good variable names, method decomposition, variable names, etc.

Assignments:

Math major: Crissy Sanders, DC Cline, Calvin McDonough, Austin Norgaard, Max Zagaynov CS major: Drew Palacios, Jordan Trammell, David Rempel, Max McDonough

The end goal will be a page where based on the student's first semester with a table created accordingly. Then they will be able to select any courses that they have already taken so that the plan can be updated.

1 Due 12/01 (10 points): Create a textfile

Look through the course catalog for your major and create a textfile with the following columns, separated by tabs. Make sure it matches this format exactly. Your textfield should work with anyone else's code.

1. YearInSchool (1 - 4) - this is the earliest year they can take the course

2. F/S/B For Fall, Spring or Both

3. Course code: MATxxx or CSCxxx

4. Course name: Eg, Calculus I

5. A/O/E: All years, odd years, or even years

2 Due 12/05 (10 points): Table from data

After getting *Server.js* set up, create your main JS file.

1. The port number must be 8000

2. Create a function with the following URL:

    (a) csmajor_xxxx
    (b) mathmajor_xxxx

3. For your given major and starting year, create a four year plan.

4. For each course, provide a checkbox, so the user can select whether they have taken the course.

5. Then, when they hit Submit, it must adjust the schedule based on that schedule.

3 Due 12/07 (20 points): Making it work for any year and any major

Now, modify your function so that the URL contains either csmajor or mathmajor (without the underscore and the year). Copy the function I have provided into your Function file. You should now be able to access $localhost : 8888/myplan$ and see a page with the two options for majors and textfield to enter the year. When the Submit button is pressed, it should call the function from above and correctly report on the four year plan for

4 Due 12/13 at 10:00 PM (30 points): Final touches

1. Making it work if students bring in courses: Finally, when the user selects a series of courses and hits Submit, it should now give them a plan with those courses done and regenerate the table accordingly. While it might be hard to get this to work in every scenario, make sure it works in the following:

   (a) If they bring in CSC113 and CSC124
   (b) If they bring in Calc I and Calc II

2. Use CSS to make the appearance more appealing.

The final version will be peer reviewed during the final project submission.