**CPSC 473 Assignment #2**

Due Date: 11/09

In this homework assignment, you will build a simple web page for users to find students’ grades. The layout of the web page looks like:

Last Name:

**Search**

**Grades for Gio Gonzalez:**

**Students Found:**

Gio Gonzalez

Brett Gonzalez

Amy Gonzalez

|  |  |
| --- | --- |
| Course | GPA |
|  |  |
|  |  |
|  |  |
|  |  |

Here is how things would work:

1. To find students, you enter the last name and click the ‘Search’ button.
2. You will implement JS code to retrieve the students with the given last name in response to the ‘click’ event.
3. The list of students found in step 2 will be displayed on the *‘Students Found:’* section.
4. Users can click on a student name from step 3 and the student’s grades will be displayed on *‘Grades for xxx;’* section in a 2-colun table format.

Please apply the MVC pattern discussed during the last lecture to implement the web page. Specifically, you will do the following:

1. Develop a Model module to manage data regarding students’ grades. Each student should have attributes (at least): first name and last name. Since one student could have more than one grade, you need to implement this one-to-many relationship in your module. The module would expose a Function constructor so you can use to instantiate the model object.
2. Develop a couple of View modules to be used to dynamically create the student list and detailed grade table.
3. Develop a Controller module to register the event handlers the ‘click’ event occurring on the ‘Search’ button and any student’s name (in the list).

Please note that the focus of the assignment is JavaScript. It is optional to apply CSS on your HTML elements. In addition, the students’ data used by the web page are from the local cache. There is no need to get them from the server. To test your web page, you might need to prepare some test student data that your Model module could use.

**Submission**

Turn in the code for this homework by uploading your project to a public repository on GitHub. While you may discuss this homework assignment with other students, you must complete the work on your own.

To complete your submission, update this document with the following information and upload the document to Titanium:

1. ***Test Result.***
2. ***Following information:***

**Your name**

**Repository** https://github.com/ /

I will create a placeholder for you to upload the information. Failure to follow the instructions exactly will incur a **10%** penalty on the grade for this assignment.

**Grading Criteria**

1. Functionalities (35%)
2. Model Module (20%)
3. View Module (20%)
4. Controller Module (20%)
5. Put proper comments. (5%)