

# STARS Web App

## CMPT 561 - Homework 1

**This is an individual assignment worth 5%. Due date is by 5pm Wed 22<sup>nd</sup> October 2015. Push your work to Github as you make progress.**

### 1. Requirements

You are required to design and develop Web forms for a Support & Tracking of At-Risk Students (**STARS**).

The aim of STARS is to manage follow-up actions to help students who are at-risk and improve their success rates.

STARS allow allows the user to keep track of the actions and activities done the course Instructors, the Program Coordinators and the Academic Advisers. In homework 1 you are required to design and produce the html pages for STARS User Interface (UI).

Key entities of this system are:

<b>Student</b>	StudentId, FirstName, LastName, Gender, Program, GPA, AtRiskCategory, Semester (e.g., Fall 2015) Program could be: <ul style="list-style-type: none"><li>• Architecture and Urban Planning (AUP)</li><li>• Chemical Engineering (CHE)</li><li>• Civil Engineering (CVE)</li><li>• Computer Science (CS)</li><li>• Computer Engineering (CE)</li><li>• Electrical Engineering (EE)</li><li>• Mechanical Engineering (ME)</li><li>• Industrial and Systems Engineering (ISE)</li></ul> AtRiskCategory could be: <ul style="list-style-type: none"><li>• Probation 1</li><li>• Probation 2</li><li>• Probation 3 - Final Probation</li><li>• Reinstated</li><li>• Failing a Course Twice</li><li>• Warning, Last Term GPA &lt; 2.0</li></ul>
<b>Course</b>	CRN, CourseCode, Name, Semester, InstructorId
<b>StudentCourse</b>	StudentId, CRN
<b>FollowupActions</b>	ActionId, Date, Semester, ActionType, Title, Description, ByWhom, CourseCRN, Attachments - ActionType: Meeting, Referral, Email, Letter - CourseCRN is only applicable if the action is done by the instructor - ByWhom is set the AdviserId who entered the action - Attachments: a user can attach one or more attachments

<b>Adviser</b>	AdviserId, LoginName, Firstname, Lastname, Type, Department, Program Adviser Type could be: Instructor, Coordinator, CENG Adviser
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Assume that the data related to all entities (except follow-up actions) will be provided to you from

You will focus on 3 use cases:

- **List of students at risk** under the care of the current user. For the Coordinator and the CENG Adviser should get the students belonging to their program. The instructor should get the list of students in the courses that the instructor is teaching in the current semester. From this list, the user can either add a follow-up action or view existing actions.
- **Add Follow-up Action** to allow the user to select a Student from the list above, enter the Action date (by default this should be set to Today's date) and an Action Description and optional attachment(s).
- **List Actions** to display actions for a particular student by default done by the current user or done by a particular adviser type or get all the actions. The user can then get the action details and attachments.

The home page of the STARS should display the list of students at risk under the care of the current user.

STARS web pages should use HTML 5 and CCS. The pages should be connected and have **dummy data** and behave like a complete application (without server side processing). The pages should comply with Web user interface design best practices. Also remember that 'there is elegance in simplicity'.

## 2. Grading rubric

Criteria	%	Rubric Below will be used
<b>Complete and correct design and implementation of the requirements:</b>		
• Home page with menu	12	
• Students List	20	
• Add Action	20	
• Actions List	15	
• View Action	15	
• Navigation between pages	10	
<b>Testing Word documentation</b> with evidence of correct implementation using snapshots illustrating the results of testing.	8	
<b>Total</b>	100	
Copying and/or plagiarism or not being able to explain or answer questions about the implementation	- 100%	

### Detailed rubric that will be used to evaluate your website and your pages

Criteria	Exceeds Expectations (1)	Meets Expectations (0.8)	Needs Improvement (0.6)	Unacceptable (0.5 to 0)
<b>Navigation</b>	Navigation buttons/links easy to locate and follow. Logical and intuitive sequence	Navigation buttons/links somewhat confusing to use or locate. Logical sequence.	Buttons/links confusing to use or locate. Confusing sequence.	Buttons/links missing from page. No sequence.
<b>Principles of Design</b>	All principles applied consistently throughout web site.	Principles of design applied in most, but not all of the web site.	Limited application of design principles.	Use of design principles not evident.
<b>Professional Look and Feel</b>	The Web site has an exceptionally attractive, eye-catching and usable layout. It is easy to locate all important elements. White space, graphic elements and/or alignment are used effectively to organize material.	The Web pages have an attractive and usable layout. It is easy to locate all important elements.	The Web pages have a usable layout, but may appear busy or boring. It is easy to locate most of the important elements.	Novice: Design and development effort is inconsistent. The Web pages are cluttered looking or confusing. It is often difficult to locate important elements. Design is dull and has sloppy appearance.
<b>Use of Cascading Style Sheets</b>	Evidence of advanced use of styles sheet design. CSS utilized throughout web site.	Good use of CSS utilized in most of the web site.	Minimal use of CSS.	No evidence of CSS.
<b>Quality of the implementation</b>	Clean HTML and CSS using appropriate features.	Bit complex HTML and CSS and few inappropriate features used.	Unnecessary complex HTML and CSS and some inappropriate features used.	Too complex HTML and CSS. Many inappropriate features used.
<b>Spelling and Grammar</b>	There are no errors in spelling, punctuation or grammar.	There are 1-3 errors in spelling, punctuation or grammar.	There are 4-5 errors in spelling, punctuation or grammar.	There are more than 5 errors in spelling, punctuation or grammar.

### Ground Rules

- All assignments **must be your own original work**, not based on the work of other students, online examples/tutorials, or any other material from any other source. Any assignments found to be based on work other than your own will automatically be given a **grade of zero**, and may lead to further disciplinary action as per QU policy.
- All assignments must be submitted electronically to Github. You should push your work to Github as you make progress. Late submission policy: 10 points deduction for each late day and 0 after 3 days.

## Appendix A – At Risk Policy Matrix

