

# PROG36944 - Advanced .NET Server Side Technologies

## Assignment 1, Winter 2021

### Instructor: Mahboob Ali

#### Scenario

Congratulations! You have been given a lucrative contract to build the ASP.NET Core MVC Web Site to manage student course registrations.

The basic idea of this application is to design a Student Course Registration System, where you should have a proper **Welcome page**. Assume you haven't done any database connectivity yet, so you are going to be using the model classes instead, to store the information for the students and courses and the registered courses for a student.

**Hint:** Think of POCO's exchange information using classes and objects and collections.

#### Instructions

1. Create your lab solution: [LASTNAME]\_[STUDENTNUMBER]\_LABS, I would name mine like: "ALI\_1234\_LABS"  
Hint: Follow the Example from the class like Invites for guidance.
  2. Create an ASP.NET Core MVC Project (Use the template) named: [YOUR\_INITIALS]\_LAB1 (ex. MA\_LAB1) that:
    - a. Update the Page Title, Application Name and Page Footer to reference the name: "[YOUR\_INITIALS]'s Student Course Registration System" throughout the site. For example, I would use: "ASP.NET Core Student Course Registration System"
    - b. Create models for Student and Course (with appropriate types):
      - i. Student: first name, last name, selected courses, student\_number.
      - ii. Course: course code, course name, enrolled students, number\_of\_credits.
    - c. Create Input Forms for Student and Course.
    - d. Create HomeController and Views/Home for the Student and Course.
    - e. Create following action methods in the Controller to allow users to manage course registration in the model,
      - i. A method to register the student with selected course as from the drop-down list of the available courses.
      - ii. A method to drop a student from the registered course.
      - iii. A summary page where all the registered courses should be displayed with student names, course name and course code.
- Note:** these are the minimum 3 action methods required, you are encouraged to create more methods according the need of the application.
- You are also encouraged to create more model classes if needed to meet the requirement of the application.
- You must properly think the design classes needed for this application to work.
- Must place action links on the appropriate places so that the application flow work properly.
3. Capture the following screenshots and include them with your submission (see below):
    - a. All pages running in the browser including the welcome page.

not so much time of logic.

### Additional Requirements

- **Submit your assignment (including all screenshots) via SLATE as per the submission requirements below**

### Submission Requirements

- Include a few appropriate screenshots and put them in a Word document named as follows: [LASTNAME]\_TLAB1.docx.
- **Zip up your** complete project and name it: [LASTNAME]\_TLAB1.zip.
- **Make sure** you have captured all your screen shots.

**GOOD LUCK!**