## **CST8253 Web Programming II**

### Lab 6

# **Objective**

1. Use ASP.NET TextBox, RadioButton, Checkbox List, Panel and Table web controls.

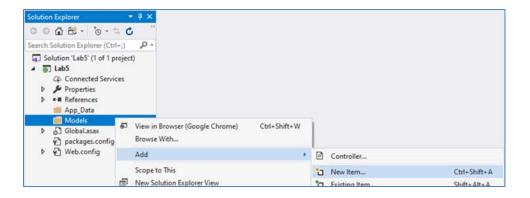
#### **Due Date**

See Brightspace posting for the due date of this lab. To earn 5 points, you are required:

- 1. Complete the lab as required.
- 2. Zip the web application's project folder and submit the zipped file to the Brightspace before due date.
- 3. Demo your lab work during the lab session in the week after the due date.

### **Preparations**

- 1. Create a new Web Form ASP.NET Web Application (.NET Framework) project in Visual Studio.
- 2. Add a new class Course in the application's Models folder.



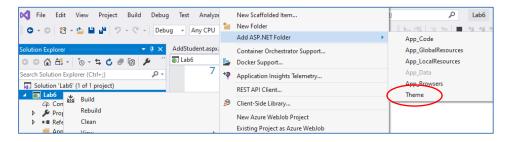
This class should have the following properties:

Code – a string, readonly
Title – a string, readonly
WeeklyHours – an integer, read and write

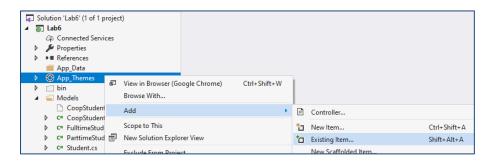
This class should have one constructor taking two parameters code and title for initializing the property Code and Title as:

public Course(string code, string title) { ... }

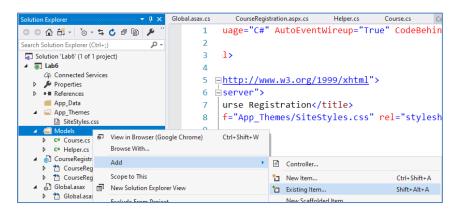
1. Add a Theme folder to the project



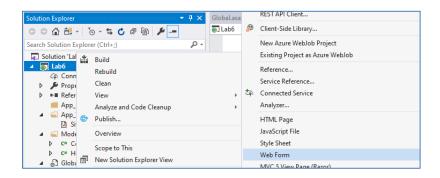
2. (optional) Add the given CSS file **SiteStyles.css** (downloadable from the Brightspace) to the App Themes folder created above

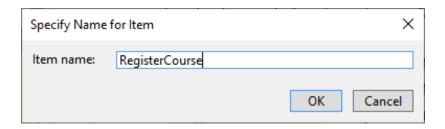


3. Add Helper.cs (downloadable from Brightspace) to Models folder.

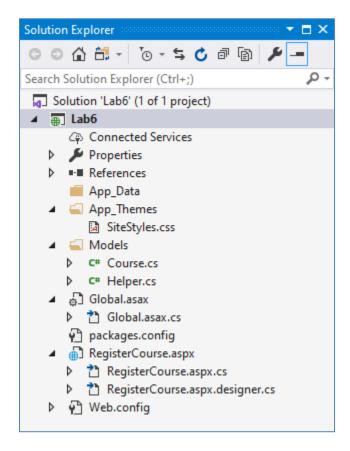


4. Add an ASP.NET web page **RegisterCourse.aspx** to the project.





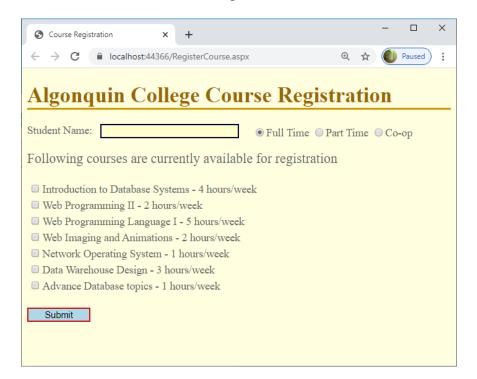
After complete this step, your Solution Explorer should look like:



- You are encouraged to use Bootstrap to style your page. But if you do not know or familiar with Bootstrap, you can use the supplied CSS file **SiteStyles.css** in App Theme folder to style your web page.
- Study the class Helper defined **Helper.cs** file
  - Use public static List<Course> GetAvailableCourses()
    method of the Helper class to get a list of available courses.
  - Use public static Course GetCourseByCode(string code)
     of the Helper class to get the Course object with specified code.

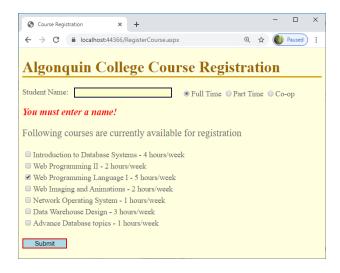
# Requirements

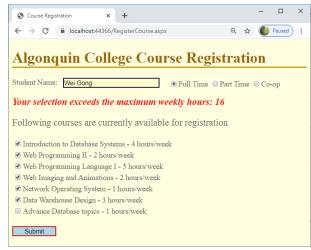
- 1. On initial load, the web page RegisterCourse.aspx presents the user: (see sample page below)
  - A text box to enter student name.
  - A three radio buttons to select student type from **full time**, **part time** or **co-op**.
  - A checkbox list for course currently available for registration.
  - A submit button to submit the registration.

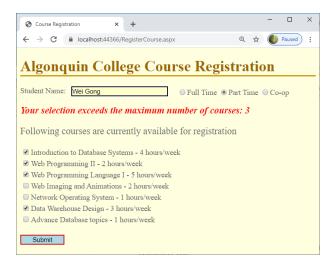


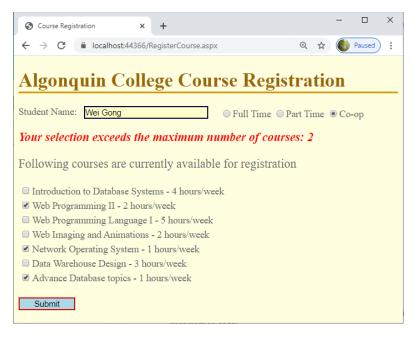
- 2. Once the user entered his/her name, selected the course(s) to register and clicked the "Submit" button, the web application validate the student's request against the following registration rules:
  - The user must enter a student name
  - Full time students cannot exceed 16 hours in a week.
  - Part time students cannot register more than 3 courses;
  - Coop students cannot register more than 2 courses or exceed 4 hours in a week

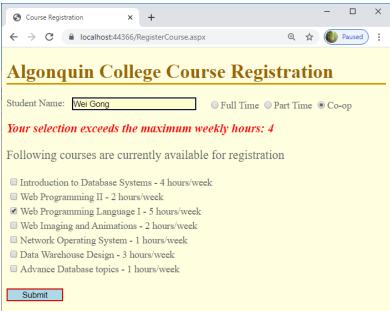
If the validation fails, the page presents an error message to the user. The followings are a couple of sample screen captures when validation failed:











- 3. If the validation is successful, the user will be presented with a confirmation page. On this page:
  - The name of the student and type of the student are no changeable.
  - A table lists all courses the students selected and the total weekly hours.

Followings are two sample screen captures:

