Assignment 1

Due Jan 31 by 11:59pm **Points** 10 **Submitting** a file upload **File Types** zip
Available until Feb 5 at 11:59pm

This assignment was locked Feb 5 at 11:59pm.

Hamilton Adult Soccer Club Site

Statement of Authorship

- Lab to be done individually
- In order to be graded, the following Statement of Authorship must be on the About page
- I, Firstname Lastname, student number 123456789, certify that this material is my original work. No other person's work has been used without due acknowledgment and I have not made my work available to anyone else.
- Replace Firstname Lastname with your name and 123456789 with your student number

Requirements

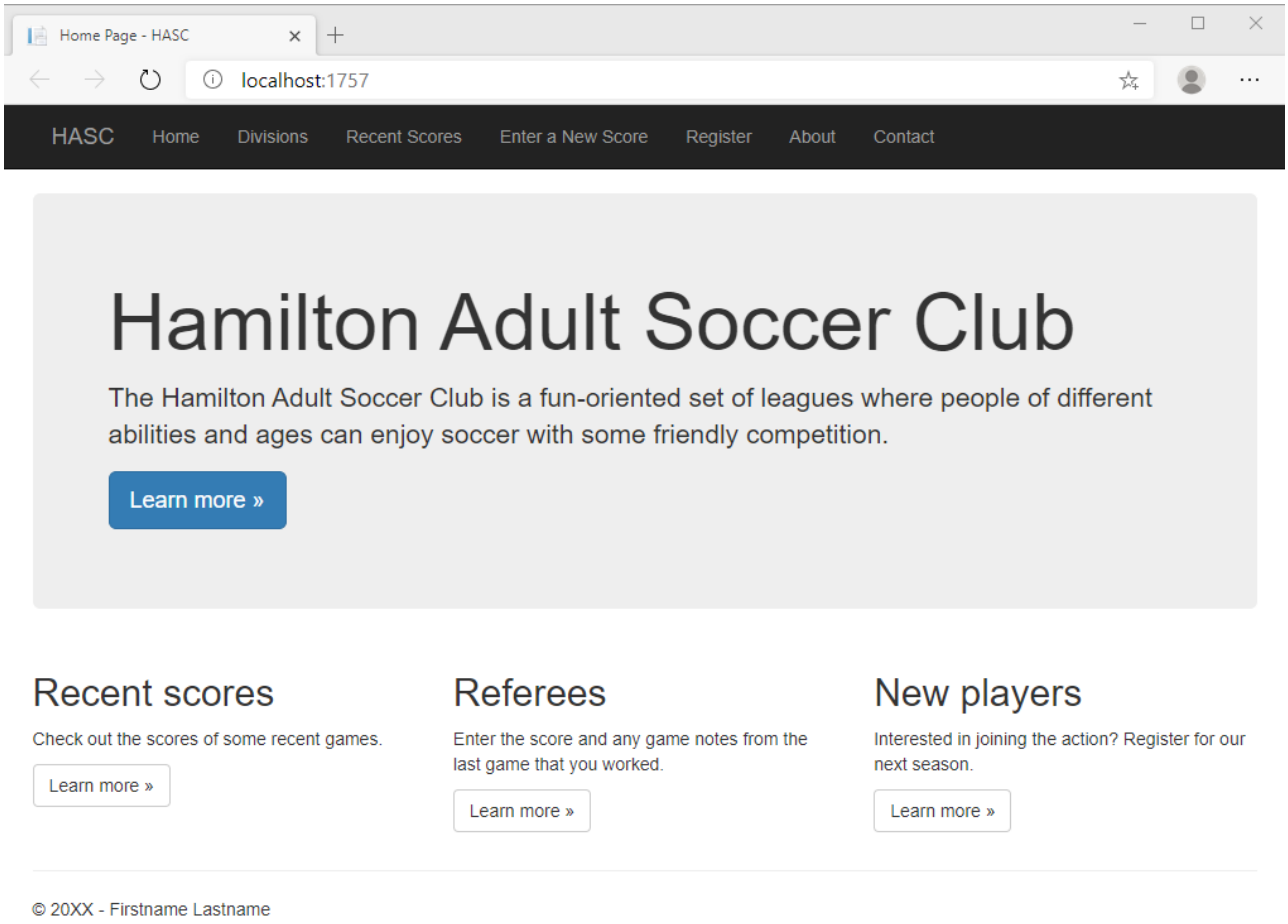
- Create a C# ASP.NET Web Application (.NET Framework) named **assignment1**, ensure solution and project are not in same directory
- Use version **.NET Framework 4.7.2** with the Web Forms template, do not configure HTTPS
- Any method you implement must have XML comments
- The site allows the user to observe and maintain various tables of the HASC database
- Use this script to create the database **HASC.sql**
- Your final submitted work must use localhost\sqlexpress in the connection string
- You will need to modify some of the pages supplied by the template and you will need to create additional pages
- Apply an auto format to all grid views, you may choose a different auto format than displayed however, ensure you use the same auto format throughout your site
- Ensure to apply a Bootstrap CSS class to ensure all grid views to ensure they have adequate spacing
- Each of the existing pages and new pages will need to have their Page Title property modified
- Most grid view columns do not have default names

Site.Master and Default.aspx

- Site.Master changes
  - Application name
  - Menu links to Divisions, Recent, NewScore and Register pages

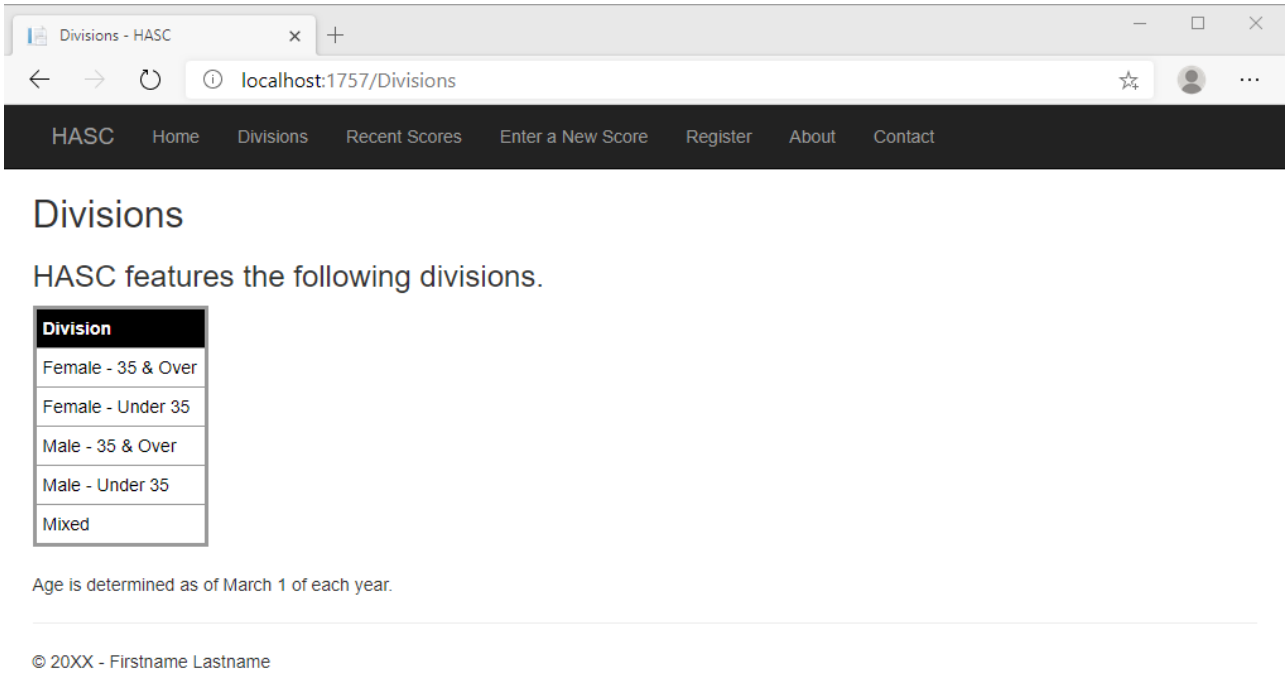
- Footer: change 20XX to current year and Firstname Lastname to your name

- Default.aspx changes
  - Jumbotron element: text, button links to the Divisions page
  - First row element: text, button links to the Recent page
  - Second row element: text, button links to the NewScore page
  - Third row element: text, button links to the Register page



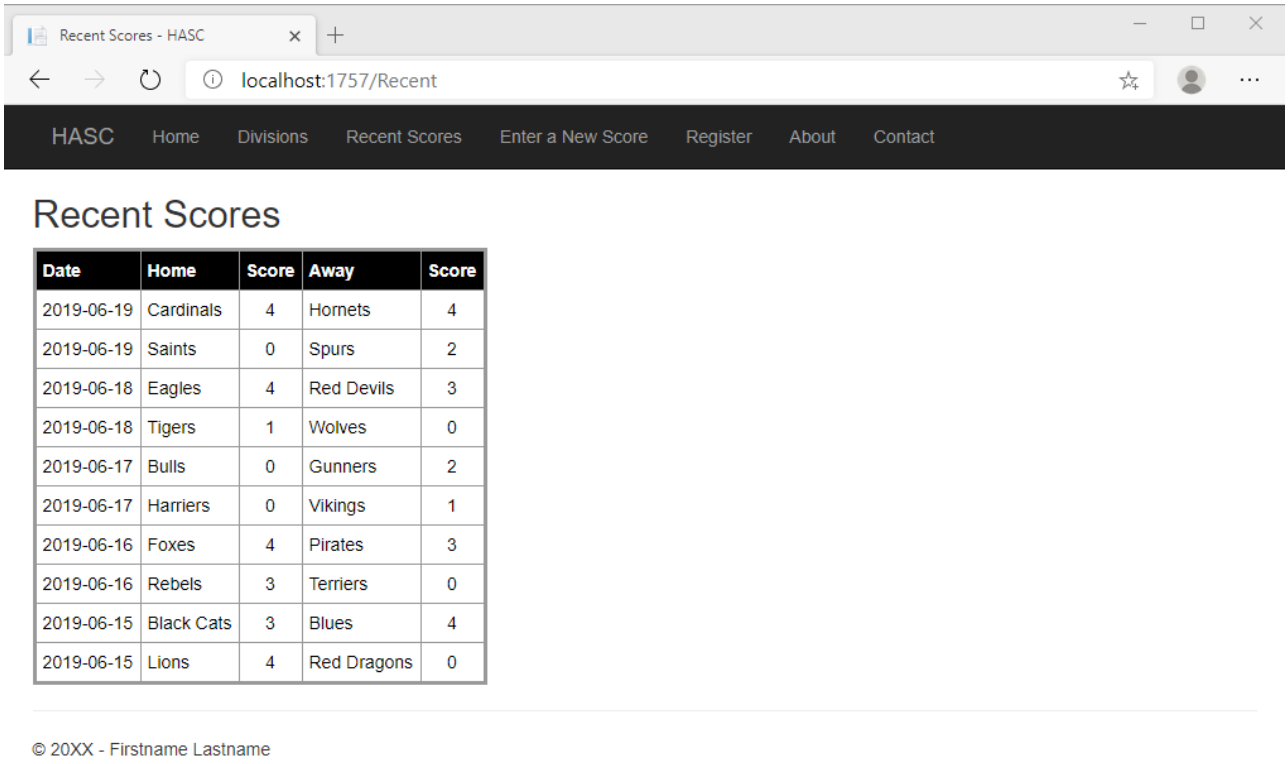
visions.aspx

- h3 sub heading below the Divisions heading.
- Grid showing divisions table, note it is not in default sort sequence
- The "Age is determined..." is just flavour text and does not have to be used in any calculations



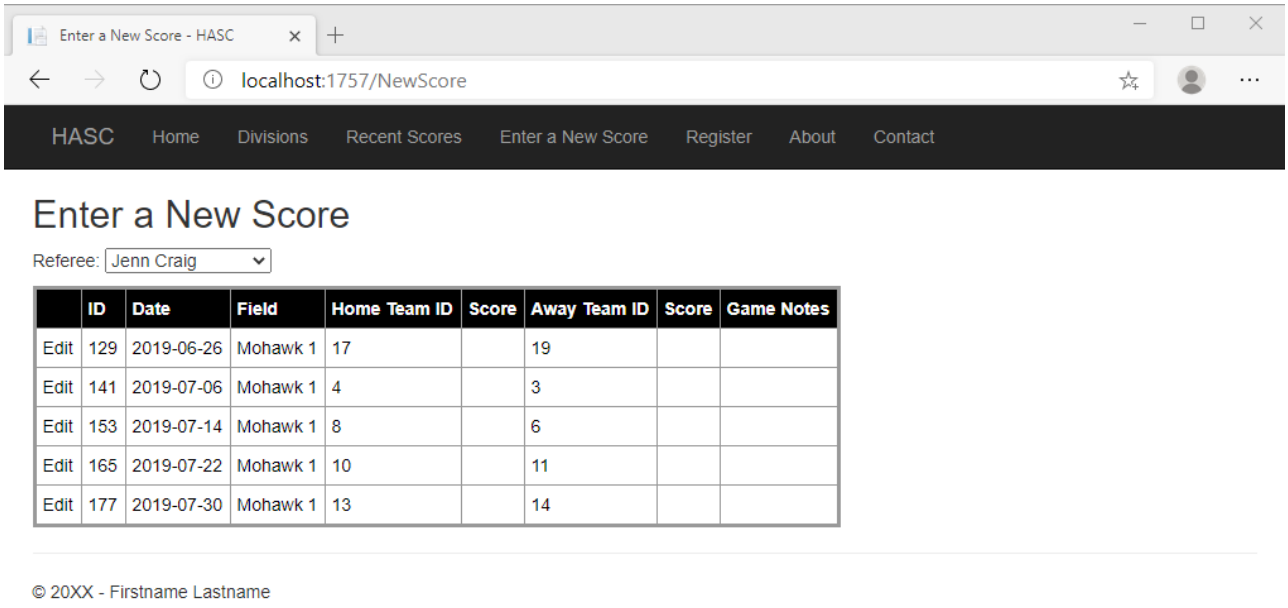
Recent.aspx

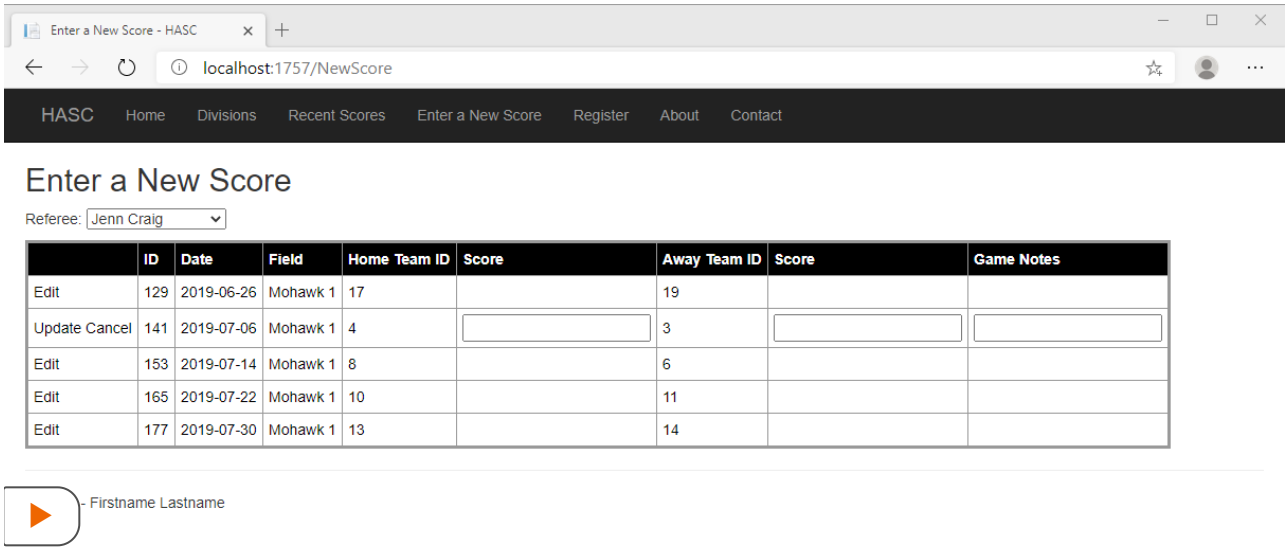
- Grid showing 10 most recent scores
  - SELECT statement will need to join the teams table twice, once for home team and once for away
  - WHERE criteria will need to ensure that only games with a score (home or away) are selected
  - ORDER BY clause will need to ensure that games are sorted most recent first



NewScore.aspx

- Drop-down list shows concatenation of referee's first name and last name, sorted by this
- When a new referee is selected, their assigned games that don't have a score are displayed in the grid
- When the Edit link is clicked on a row in the grid, only the home team score, away team score and game notes are available; other columns are read only
- Extra attention will need to be paid to the UPDATE command of the data source; by default it will set a number of columns to NULL; it should be edited to only update the desired columns, instead of all columns; the INSERT and DELETE commands aren't needed in the data source and may be deleted
- If everything is working correctly, once a game is given a score, it should disappear from the grid and it should now appear on the New Scores grid





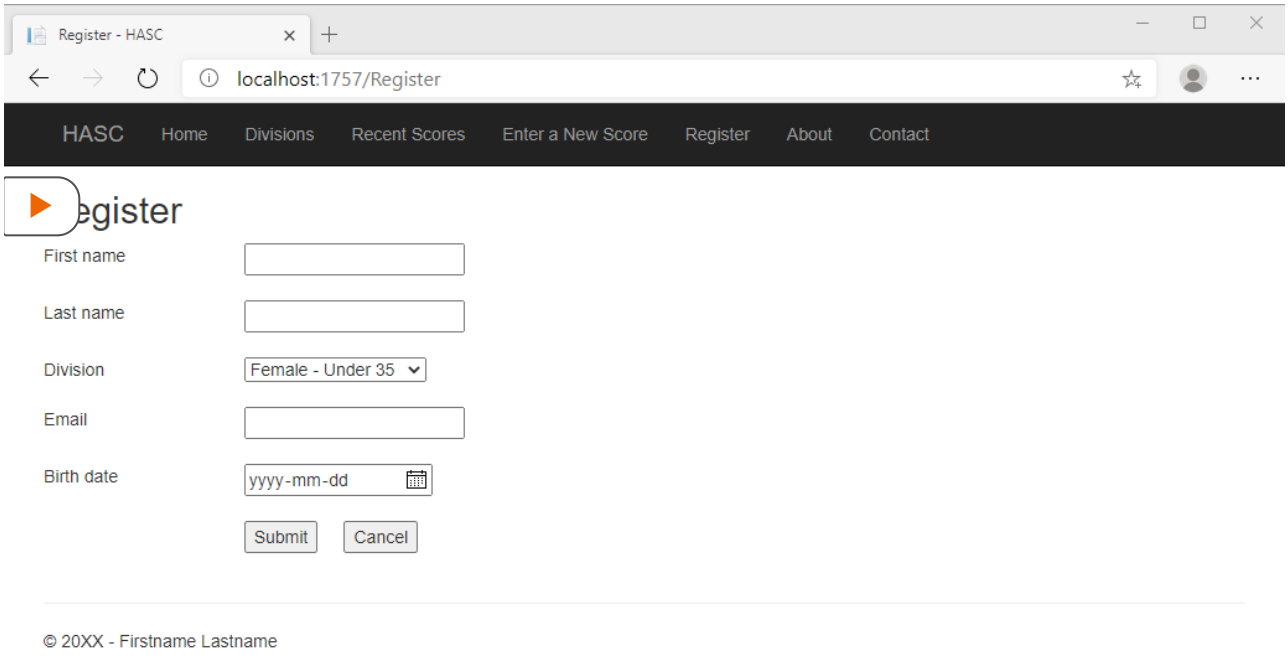
Register.aspx

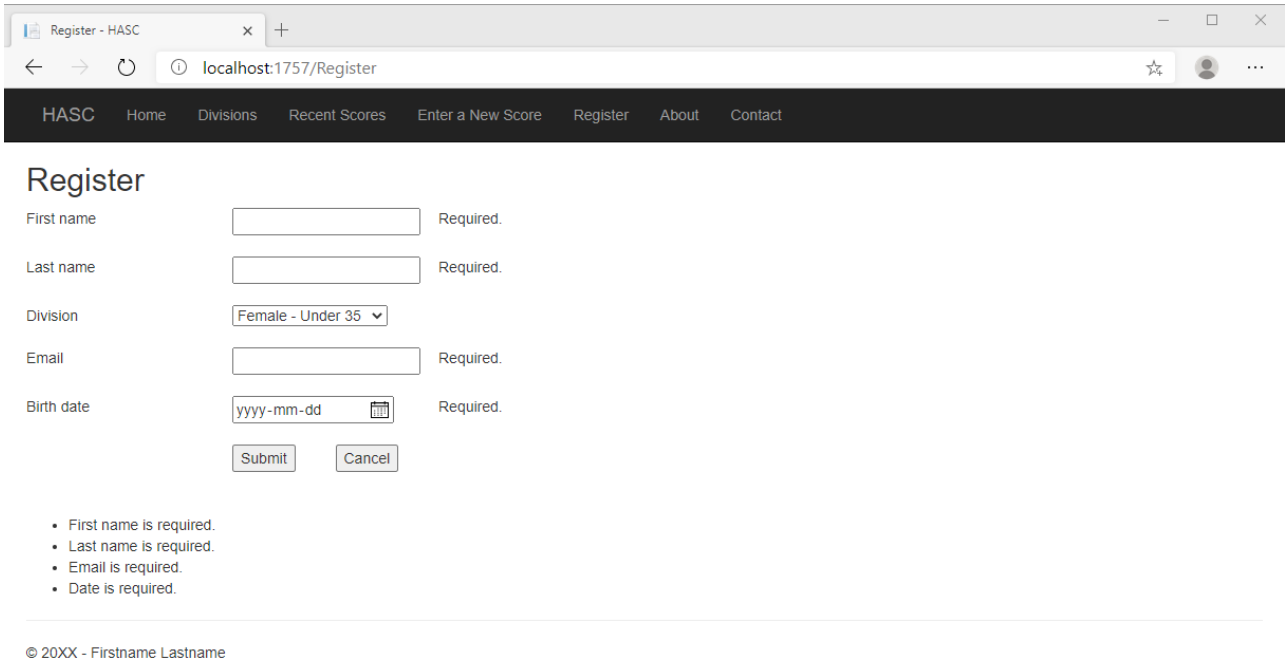
- Use the **Bootstrap grid system** **(https://getbootstrap.com/docs/3.4/css/#grid)** to layout the form rows

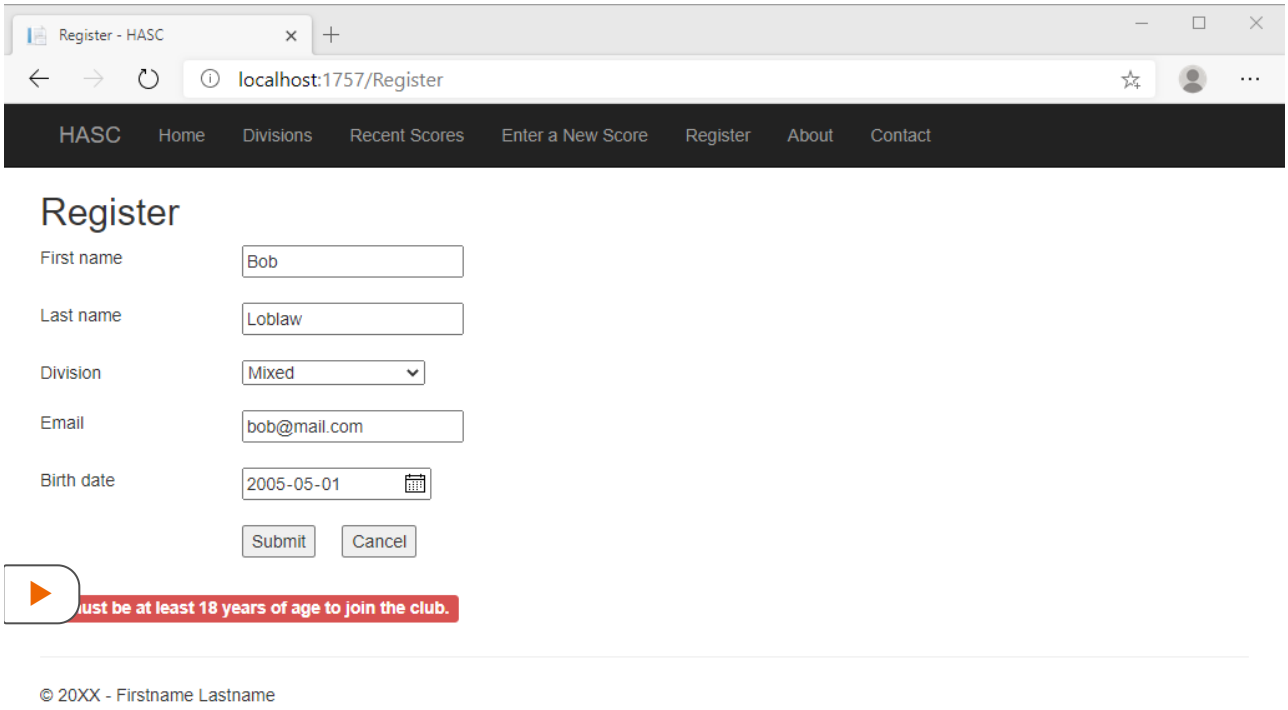
```
<div class="table row">
    <div class="col-md-2">Prompt</div>
    <div class="col-md-2">Text box or other control</div>
    <div class="col-md-2">Validator(s)</div>
</div>
```

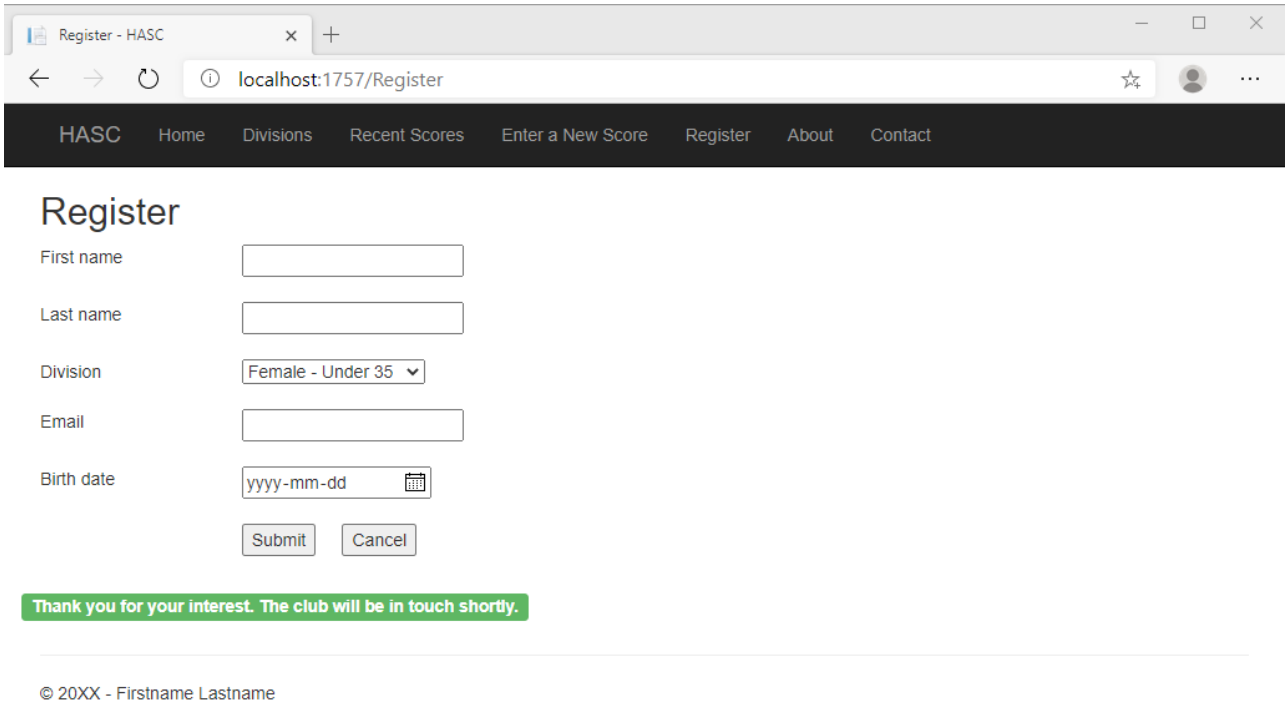
- First name text box gets focus
- Birth date text box is in date text mode
- Drop-down list uses a SQL data source connected to the divisions table

- Use required field validators to ensure the 4 text boxes have values
- Use a regular expression validator to ensure email is formatted correctly, keep focus in text box if error
- Display a validation summary
- Cancel button resets the validators
- Use a literal to display feedback from the server-side code
- When Submit button is clicked, perform the following server-side
  - Check that page is valid and only proceed if it is
  - Verify that the age of applicant is 18 years or older, if it isn't provide feedback via the literal with a red error message and give focus to the date text box
  - Place database code inside try/catch block, if an exception occurs, provide feedback via the literal with a red error message
  - Retrieve connection string
  - Build a SQL command that will retrieve the current highest person_id from the persons table; you may use a SqlDataReader or you may use the ExecuteScalar method of the command object
  - Reuse the SQL command and set its CommandText property to an INSERT statement that will add the new applicant to the persons table as a player (don't forget to add 1 to the retrieved person_id)
  - Use command parameters to guard against SQL injection
  - Execute the SQL command, if successful, provide feedback via the literal and reset the inputs
  - Error and success messages don't have to look exactly as screenshots, these messages were achieved using classes from Bootstrap



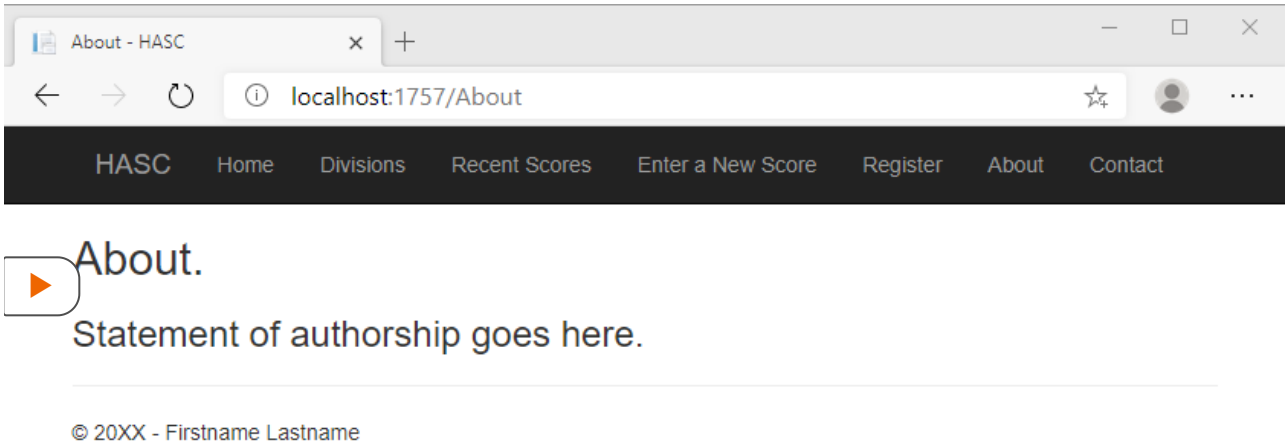

Register - HASC
localhost:1757/Register
HASC
Home
Divisions
Recent Scores
Enter a New Score
Register
About
Contact
Register
First name
Required.
Last name
Required.
Division
Female - Under 35
Email
Required.
Birth date
yyyy-mm-dd
Required.
Submit
Cancel
First name is required.
Last name is required.
Email is required.
Date is required.
© 20XX - Firstname Lastname


Register - HASC
localhost:1757/Register
HASC
Home
Divisions
Recent Scores
Enter a New Score
Register
About
Contact
Register
First name
Bob
Last name
Loblaw
Division
Mixed
Email
bob@mail.com
Birth date
2005-05-01
Submit
Cancel
ust be at least 18 years of age to join the club.
© 20XX - Firstname Lastname



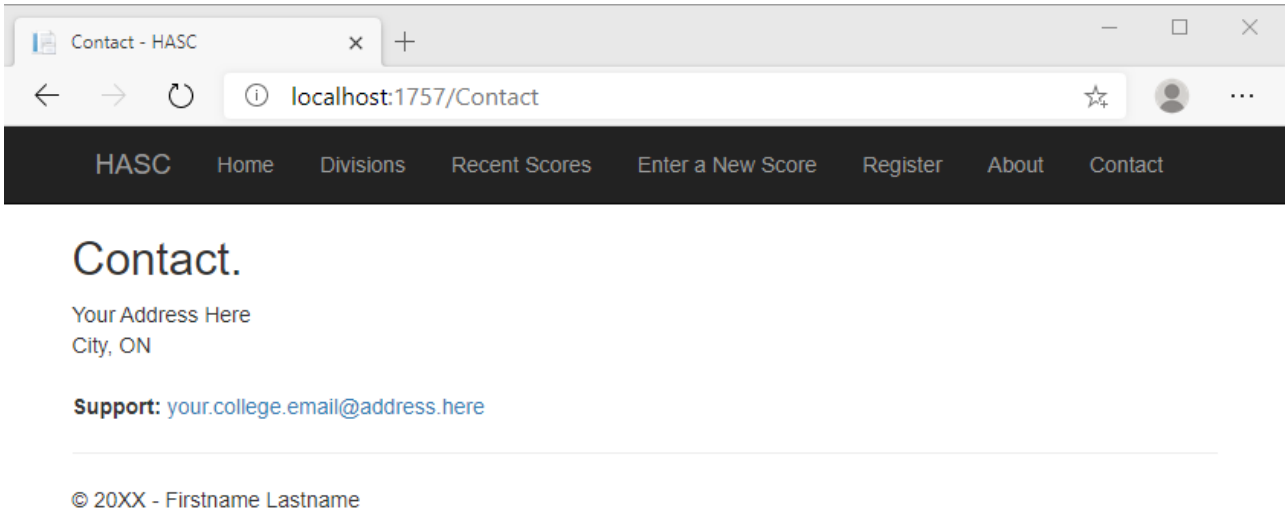
About.aspx

- Put statement of authorship in h3 sub heading



Contact.aspx

- Put your address information in the address tag
- Put your Mohawk College email address in the support information



Submission Instructions

- Once you have completed the assignment
- Exit all instances of Visual Studio
- Open File Explorer
- Find the folder where your assignment is
- These instructions will use C:\code\co884\assignment1 as an example
- Verify that the expected files are present
- Double-click the assignment1 folder
- Click the View menu and select Hidden Items if necessary
- Delete the **.vs** folder, it stores temporary data and can get quite large
- Return to the C:\code\co884 folder
- Right-click the assignment1 folder and select Send To / Compressed (zipped) folder
- Submit this file (assignment1.zip) by clicking the Submit Assignment button in the upper-right of this page and completing the submission