

Module 1: Overview of HTML and CSS

Lab: Exploring the Contoso Conference Application

Exercise 1: Exploring the Contoso Conference Application

Task 1: Start the web application and view the Home page

1. Start the **HTML5** virtual machine if it is not already running, and log on as Student with the password Pa\$\$w0rd.
 2. On the Windows 8 Start screen, click the Visual Studio 2012 tile.
 3. In Visual Studio, on the File menu, point to Open, and then click Project/Solution.
 4. In the Open Project dialog box, browse to E:\Mod01\Labfiles\Starter, click ContosoConf.sln, and then click Open.
 5. On the Debug menu, click Start Without Debugging.
 6. In Internet Explorer, if the message Intranet settings are turned off by default appears, click Don't show this message again.
 7. Verify that the Home page appears in Internet Explorer.
- The Home page is displayed in Internet Explorer, like this:



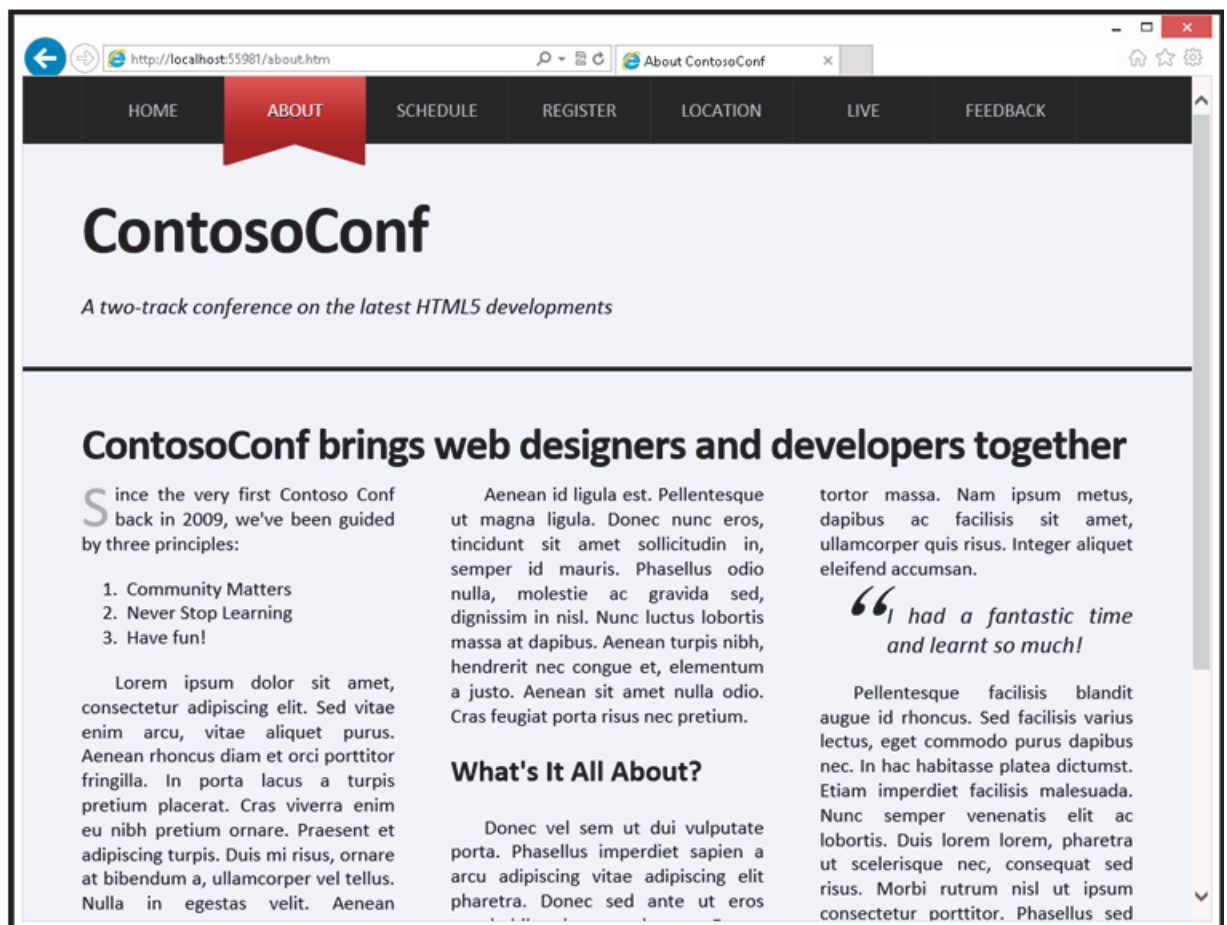
8. Scroll to the bottom of the Home page.
9. Click Play and verify that the video starts.
10. Click Pause.
11. Scroll to the top of the Home page.
12. Hover the mouse over the Register Free icon and verify that the icon rotates and expands.

13. At the very top of the page, move the mouse over the items in the menu bar but do not click any of them.
14. Verify that each item is highlighted as the mouse traverses the item

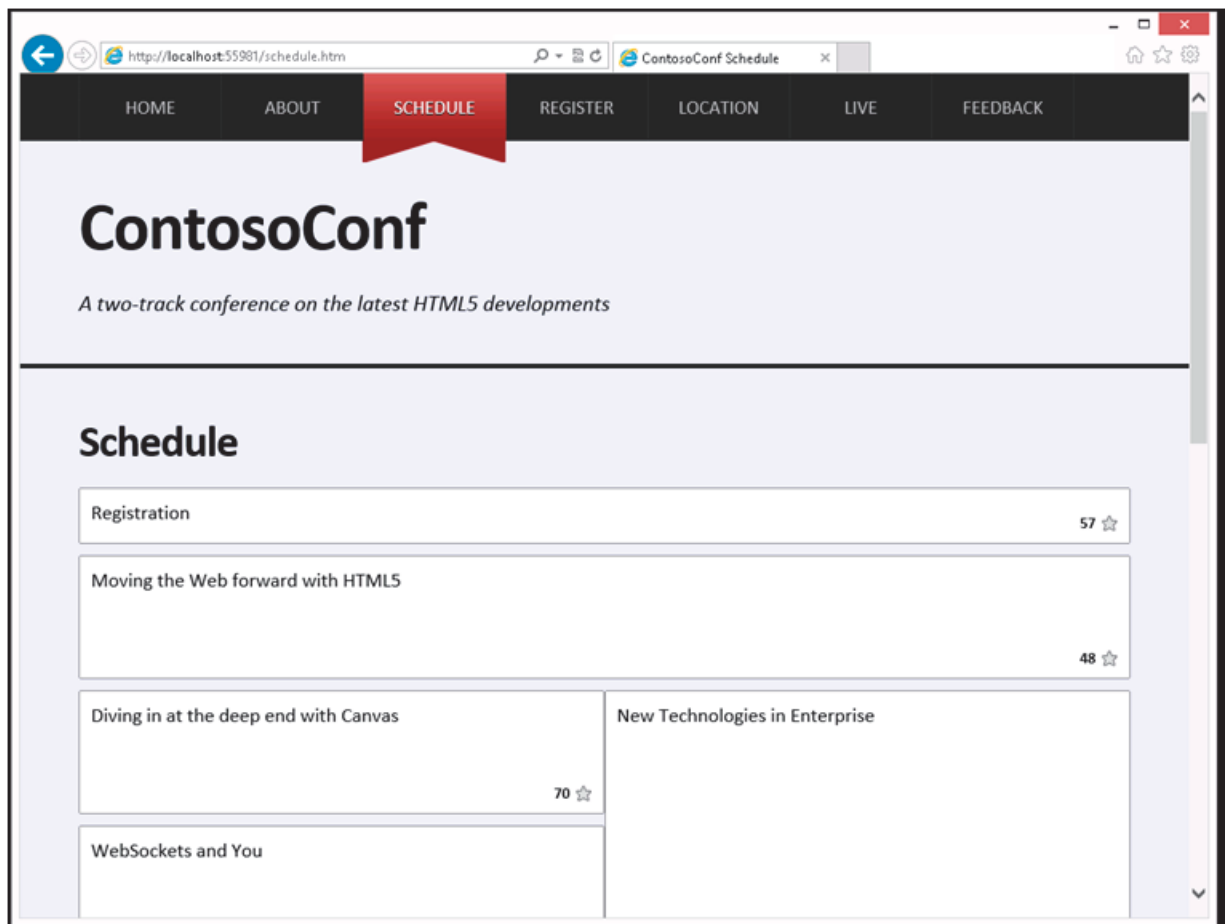
Task 2: View the About and Schedule pages

1. On the menu bar, click About.
2. Verify that the About page appears, and that the style of the About item in the menu bar changes to indicate that the About page has been selected.

The About page looks like this:



3. On the menu bar, click Schedule.
 4. Verify that the Schedule page appears.
- The Schedule page looks like this:



5. In the box for the session named Moving the Web forward with HTML5, click the star icon.
6. Verify that the star turns yellow, and that the number of interested attendees increases by 1.
7. Click the star icon again.
8. Verify that the star turns white, and that the number of interested attendees decreases by 1.

Task 3: View the Register page and register as a new attendee

1. On the menu bar, click **Register**.
 2. Verify that the **Register** page appears.
- The **Register** page looks like this:

ContosoConf

A two-track conference on the latest HTML5 developments

Register for the conference

First name:

Last name:

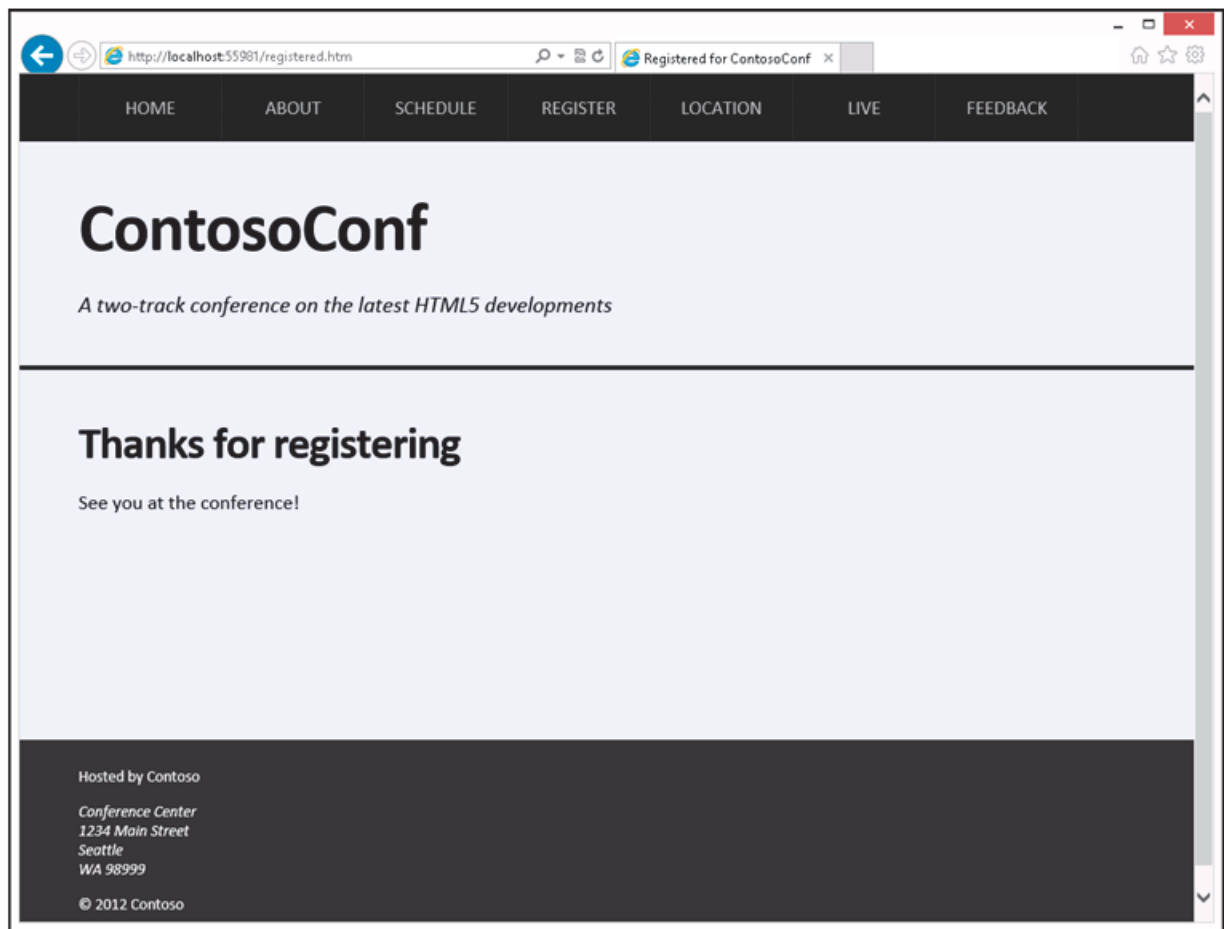
Email address:

Choose a password:

Confirm your password:

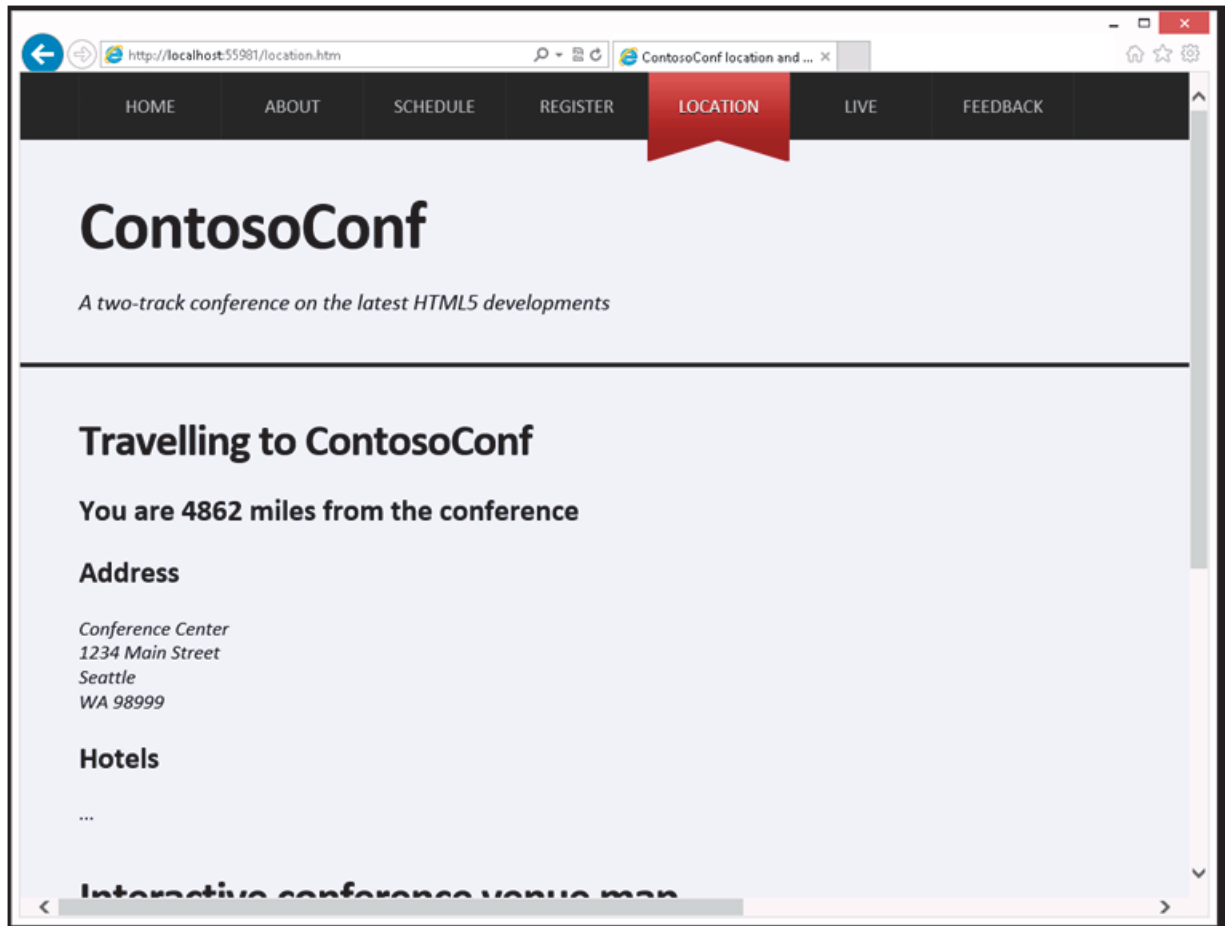
Website/blog:

3. Click Register and verify that all fields except Website/blog are highlighted and that the message This is a required field appears below the First name field.
4. In the First name field, type Eric.
5. In the Last name field, type Gruber.
6. In the Email address field, type dummy data, and then click Register.
7. Verify that the message You must enter a valid email address appears below the Email address field.
8. In the Email address field, type grubere@contoso.com.
9. In the Choose a password field, type abcd, and then click Register.
10. Verify that the message You must use this format: At least 5 letters and numbers appears below the Choose a password field.
11. In the Choose a password field, type abc1234.
12. In the Confirm your password field, type wxyz9999, and then click Register.
13. Verify that the message Your passwords don't match. Please type the same password again appears below the Confirm your password field.
14. In the Confirm your password field, type abc1234, and then click Register.
15. Verify that the Thanks for registering confirmation page appears.
 The confirmation page looks like this:



Task 4: View the Location page

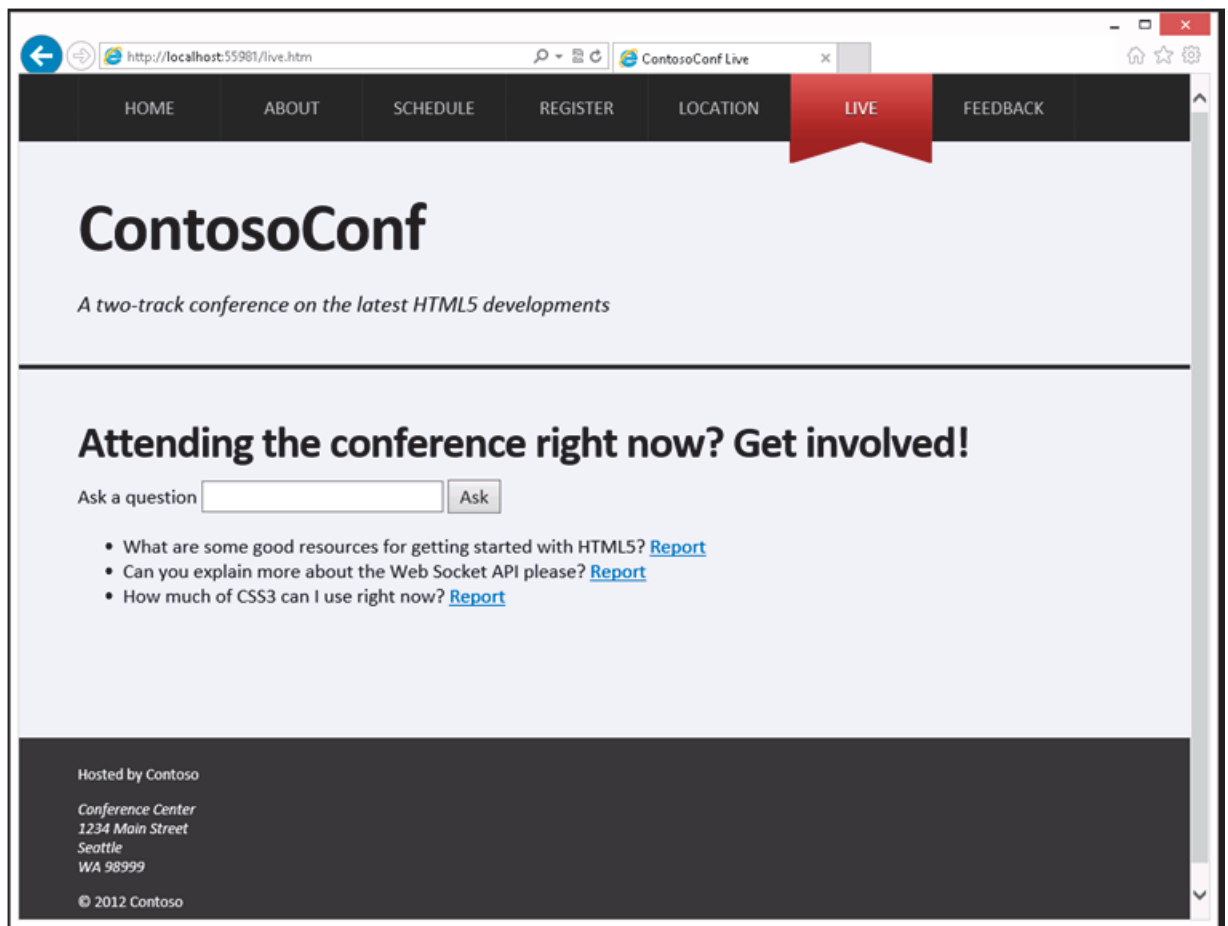
1. On the menu bar, click **Location**.
 2. Verify that the **Location** page appears.
 3. If the message **localhost wants to track your physical location** appears in the Internet Explorer message bar, click **Allow once**.
 4. In the **Enable Location Services** dialog box, click **Yes**.
 5. Verify that your distance from the conference venue is displayed.
- The **Location** page looks like this:



6. Scroll to the bottom of the page.
7. Verify that the conference venue map is displayed.

Task 5: Submit a question and provide conference feedback

1. On the menu bar, click **Live**.
 2. Verify that the **Live** page appears.
- The **Live** page looks like this:



3. In the **Ask a question** box, type **What is the best way to learn HTML5?** and then click **Ask**.
4. Verify that the question appears in the list below the box.
5. Click **Report** adjacent to the new question.
6. Verify that the question disappears.
7. On the menu bar, click **Feedback**.
8. Verify that the **Feedback** page appears.
The **Feedback** page looks like this:

http://localhost:55981/feedback.htm

ContosoConf Feedback

HOME ABOUT SCHEDULE REGISTER LOCATION LIVE **FEEDBACK**

ContosoConf

A two-track conference on the latest HTML5 developments

Enjoyed the conference? Leave your feedback!

How would you rate the speaker's knowledge of the topic? ☆☆☆☆☆

How well could you hear the speaker? ☆☆☆☆☆

How useful did you find the information in this talk? ☆☆☆☆☆

How would you rate the overall session? ☆☆☆☆☆

Any additional comments?

Send Feedback

Hosted by Contoso
Conference Center
1234 Main Street

9. By the first question, click the third star, and verify that the first three stars are highlighted.
10. By the second question, click the fifth star and verify that all five stars are highlighted.
11. By the remaining two questions click the fourth star and verify that four stars are highlighted.
12. In the **Any additional comments** box, type **Good conference**, and then click **Send Feedback**.
13. Verify that the form flies off the top of the page.
14. Close Internet Explorer.

Exercise 2: Examining and Modifying the Contoso Conference Application

Task 1: Explore the web pages for the application by using Visual Studio 2012

1. In Visual Studio 2012, in Solution Explorer, expand the ContosoConf project.
2. Double-click index.htm.
3. In the index.htm file, at the start of the <body> section, find the <nav> element.
4. Verify that the <nav> section contains the following HTML markup:

```
<nav class="page-nav">
  <div class="container">
    <a href="/index.htm" class="active">Home</a>
    <a href="/about.htm">About</a>
    <a href="/schedule.htm">Schedule</a>
    <a href="/register.htm">Register</a>
    <a href="/location.htm">Location</a>
    <a href="/live.htm">Live</a>
    <a href="/feedback.htm">Feedback</a>
  </div>
</nav>
```

5. Find the <section> element with the video class, and verify that this section contains the following HTML markup:

```
<section class="video">
  <h2>Video from last year</h2>
  <video src="http://ak.channel9.msdn.com/ch9/265b/9a76fccd-941e-4285-ad00-
9ea200aa265b/MIX09KEY01_high_ch9.mp4"></video>
  <div class="video-controls" style="display: none">
    <button class="video-play">Play</button>
    <button class="video-pause">Pause</button>
    <span class="video-time"></span>
  </div>
</section>
```

6. In the <head> section near the top of the file, find the <link> elements.
7. Verify that the <head> section contains the following links:

```
<head>
  ...
  <link href="/styles/site.css" rel="stylesheet" type="text/css" />
  <link href="/styles/nav.css" rel="stylesheet" type="text/css" />
  <link href="/styles/header.css" rel="stylesheet" type="text/css" />
  <link href="/styles/footer.css" rel="stylesheet" type="text/css" />
  <link href="/styles/pages/index.css" rel="stylesheet" type="text/css" />
  <link href="/styles/mobile.css" rel="stylesheet" type="text/css" />
  <link href="/styles/print.css" media="print" rel="stylesheet" type="text/css" />
</head>
```

8. Near the end of the file, find the <script> elements.
9. Verify that the following scripts are referenced:

```
<script src="/scripts/offline.js" type="text/javascript"></script>
<script src="/scripts/_namespace.js" type="text/javascript"></script>
<script src="/scripts/datetime.js" type="text/javascript"></script>
<script src="/scripts/pages/video.js" type="text/javascript"></script>
```

10. In Solution Explorer, double-click about.htm.
11. In the about.htm file, at the start of the <body> section, find the <nav> section.
12. Verify that the <nav> section contains the following HTML markup:

```
<nav class="page-nav">
```

```

<div class="container">
  <a href="/index.htm">Home</a>
  <a href="/about.htm" class="active">About</a>
  <a href="/schedule.htm">Schedule</a>
  <a href="/register.htm">Register</a>
  <a href="/location.htm">Location</a>
  <a href="/live.htm">Live</a>
  <a href="/feedback.htm">Feedback</a>
</div>
</nav>

```

13. In the **<head>** section near the top of the file, find the **<link>** elements.

14. Verify that the **<head>** section includes the following link:

```

<head>
...
<link href="/styles/pages/about.css" rel="stylesheet" type="text/css" />
...
</head>

```

15. In Solution Explorer, double-click schedule.htm.

16. In the schedule.htm file, find the **<section class="page-section schedule">** element.

17. Verify that this element contains the following HTML markup:

```

<section class="page-section schedule">
  <div class="container">
    <h1>Schedule</h1>
    <ul id="schedule"></ul>
  </div>
</section>

```

18. Verify that the schedule.htm file contains the **<script src="/scripts/pages/schedule.js" type="text/javascript">** element near the end.

19. In Solution Explorer, double-click register.htm.

20. In the register.htm file, find the **<section class="page-section register">** element.

21. Verify that this element contains the following HTML markup:

```

<section class="page-section register">
  <div class="container">
    <h1>Register for the conference</h1>
    <form method="post" action="/registration/new" id="registration-form">
      <div class="field">
        <label for="first-name">First name:</label>
        <input type="text" id="first-name" name="FirstName" required="required"
          autofocus="autofocus"/>
      </div>
      <div class="field">
        <label for="last-name">Last name:</label>
        <input type="text" id="last-name" name="LastName" required="required"/>
      </div>
      <div class="field">
        <label for="email-address">Email address:</label>
        <input type="email" id="email-address" name="EmailAddress"
          required="required"/>
      </div>
      <div class="field">
        <label for="password">Choose a password:</label>

```

```

<input type="password" id="password" name="Password" required="required"
pattern="[a-zA-Z0-9]{5,}" title="At least 5 letters and numbers"/>
</div>
<div class="field">
<label for="confirm-password">Confirm your password:</label>
<input type="password" id="confirm-password" name="ConfirmPassword"
required="required"/>
</div>
<div class="field">
<label for="website">Website/blog:</label>
<input type="url" id="website" name="WebsiteUrl" placeholder="http://" />
</div>
<div>
<button type="submit">Register</button>
</div>
</form>
</div>
</section>

```

22. In Solution Explorer, double-click location.htm.
23. Verify that the location.htm file contains the <script src="/scripts/pages/location.js" type="text/javascript"> element near the end.
24. Find the <section class="travel"> element.
25. Verify that this element contains the following HTML markup:

```

<section class="travel">
  <h1>Travelling to ContosoConf</h1>
  <h2 id="distance"></h2>
  ...
</section>

```

26. Find the <section class="venue"> element.
27. Verify that this element contains the following HTML markup:

```

<section class="venue">
<h1>Interactive conference venue map</h1>
<div id="venue-map">
<svg viewBox="-1 -1 302 102" width="100%" height="230">
<!-- Room A -->
<g id="room-a" class="room">
<rect fill="#fff" x="0" y="0" width="100" height="100"/>
<text x="13" y="55" font-weight="bold" font-size="20">ROOM A</text>
</g>
<!-- Room B -->
<g id="room-b" class="room">
<rect fill="#fff" x="200" y="0" width="100" height="100"/>
<text x="213" y="55" font-weight="bold" font-size="20">ROOM B</text>
</g>
<!-- The outline of the building -->
<polyline fill="none" stroke="#000" points="135,95 140,100 0,100 0,0 100,0
100,80 130,80 130,70 110,70 110,30 190,30 190,70 170,70 170,80 200,80 200,0 300,0
300,100 160,100 165,95"/>
<text x="150" y="55" font-size="12" style="text-anchor:
middle">Registration</text>
</svg>

```

```
...
</div>
</section>
```

28. In Solution Explorer, double-click live.htm.
29. Find the <section class="page-section live"> element.
30. Verify that this section contains the following HTML markup:

```
<section class="page-section live">
<div class="container">
<h1>Attending the conference right now? Get involved!</h1>
<form action="#">
<label for="ask-question-text">Ask a question</label>
<input id="ask-question-text" type="text" />
<button type="submit">Ask</button>
</form>
<ul>
<!-- Questions will be displayed here when received by the web socket. -->
</ul>
</div>
</section>
```

31. Verify that the live.htm file contains the following <script> element near the end:

```
<script src="/scripts/pages/live.js" type="text/javascript">
```

32. In Solution Explorer, double-click feedback.htm.
33. Find the <section class="page-section feedback"> element.
34. Verify that this section contains the following HTML form:

```
<form method="post" action="/send-feedback">
<div class="field feedback-question">
<label>How would you rate the speaker's knowledge of the topic?</label>
<input name="question" type="range" min="1" max="5"/>
</div>
<div class="field feedback-question">
<label>How well could you hear the speaker?</label>
<input name="question" type="range" min="1" max="5"/>
</div>
<div class="field feedback-question">
<label>How useful did you find the information in this talk?</label>
<input name="question" type="range" min="1" max="5"/>
</div>
<div class="field feedback-question">
<label>How would you rate the overall session?</label>
<input name="question" type="range" min="1" max="5"/>
</div>
<div class="field comments">
<label>Any additional comments?</label>
<textarea name="comments" cols="30" rows="5"></textarea>
</div>
<div class="field actions">
<button type="submit">Send Feedback</button>
</div>
</form>
```

35. Verify that the feedback.htm file contains the following <script> elements near the end:

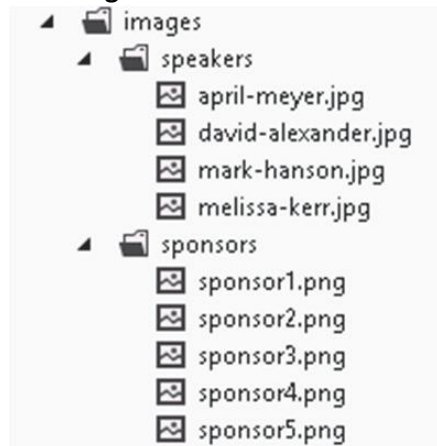
```
<script src="/scripts/StarRatingView.js" type="text/javascript">
```

```
<script src="/scripts/pages/feedback.js" type="text/javascript">
```

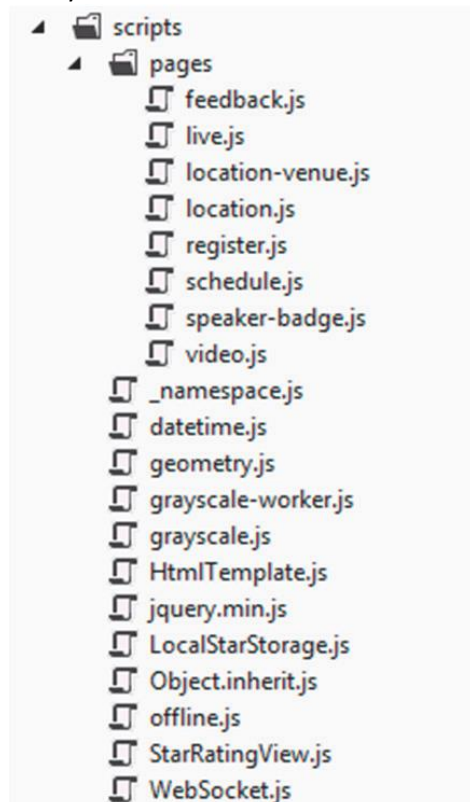
Task 2: Explore the structure of the project

1. In Solution Explorer, expand the **images** folder and verify that it contains the following folders and files.

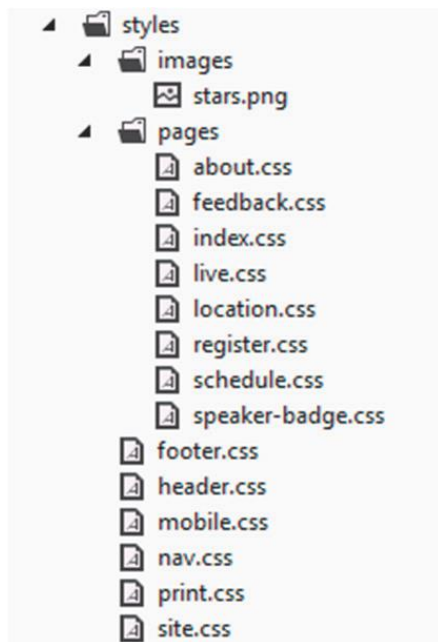
The **images** folder should contain these folders and files:



2. Expand the scripts folder.
Verify that this folder contains the following folders and files:



3. Expand the **styles** folder.
Verify that this folder contains the following folders and files:



Task 3: Run the application and make live modifications

1. In Solution Explorer, double-click index.htm.
2. On the Debug menu, click Start Without Debugging.
3. Switch to Visual Studio 2012.
4. In Solution Explorer, find the following markup on the index.htm page:

```
<span class="free">&#183; Free &#183;</span>
```
5. Change the word Free to Now, as shown below in bold:

```
<span class="free">&#183; Now &#183;</span>
```
6. In Solution Explorer, in the styles folder, double-click nav.css.
7. Find the following style:

```
nav.page-nav {  
    background-color: #1d1d1d;  
    line-height: 6rem;  
    font-size: 1.7rem;  
}
```
8. Change the value of the background-color property to blue, as shown below in bold:

```
nav.page-nav {  
    background-color: blue;  
    line-height: 6rem;  
    font-size: 1.7rem;  
}
```
9. On the File menu, click Save All.
10. Return to Internet Explorer and press F5 on the keyboard.
11. Verify that the Register button now contains the text Register Now and that the background color of the menu bar is blue.
12. Close Internet Explorer.