Scenario

In this exercise, you will add check boxes to the Schedule page to enable the user to specify which sessions should be displayed, according to the tracks that they are in.

First, you will add two checkbox HTML elements to the Schedule page; the first will enable the user to specify that the sessions for track 1 should be listed, and the second will enable the user to specify that the sessions for track 2 should be listed (if both checkboxes are checked, then the sessions for track 1 and track 2 will both be listed). Then you will add JavaScript code to handle the click events of these checkboxes: you will update the **displaySchedule** function to show only sessions that are in the tracks currently selected by the checkboxes. Finally, you will run the application and view the Schedule page to verify that selecting and deselecting the checkboxes correctly updates the session list.

The main tasks for this exercise are as follows:

1. Add checkbox HTML elements.

2. Write code to get the checkbox elements from the Schedule page.

3. Add click event listeners for each checkbox.

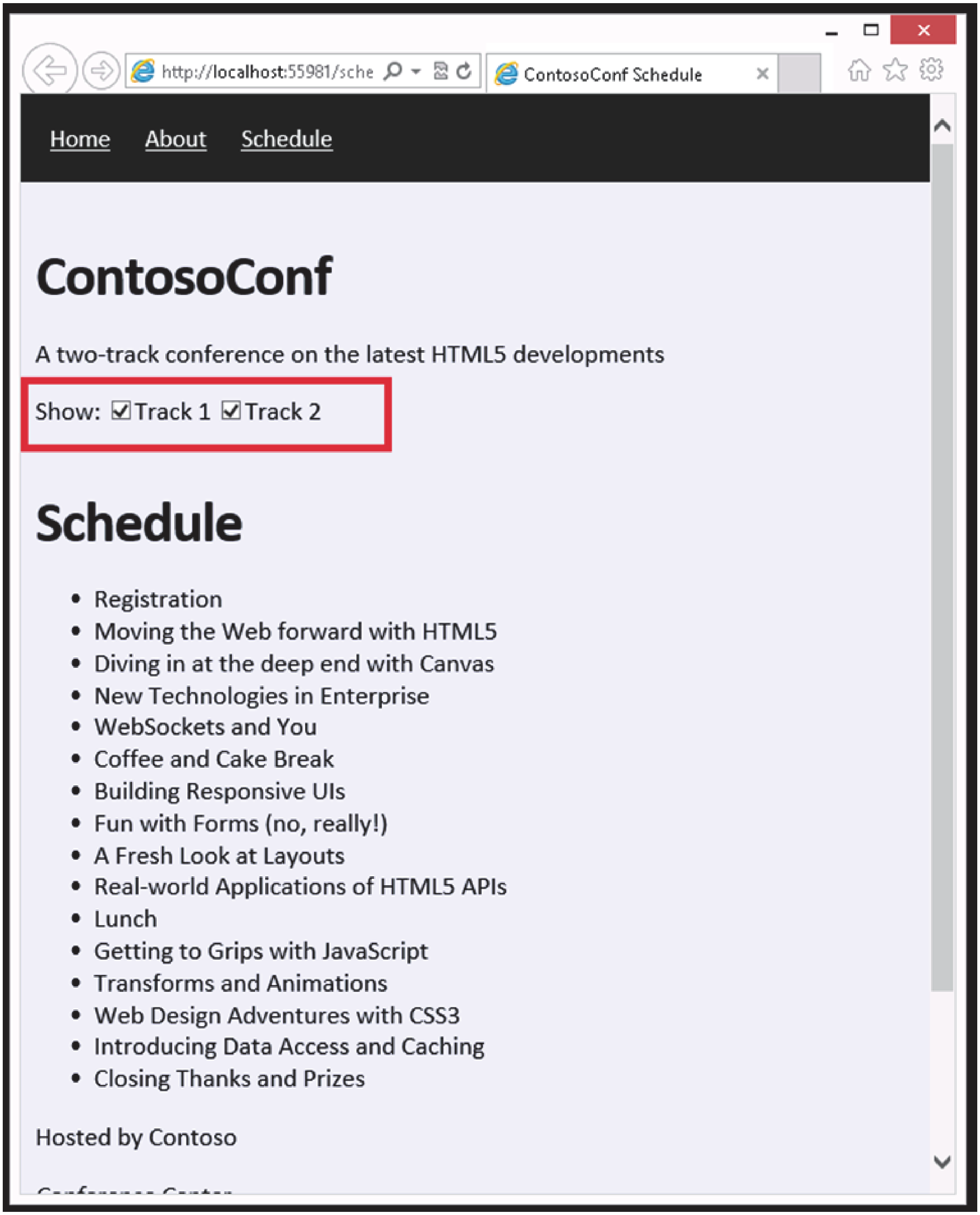
4. Update the displaySchedule function to display the sessions for selected tracks.

5. Run the web application and view the Schedule page.

► Task 1: Add checkbox HTML elements

1. In the **schedule.htm** file, before the schedule list, add two checkboxes that enable the user to specify for which tracks the page should display session information**:**

The checkboxes should look like these, highlighted in the following image:



ContosoConf

A two-track conference on the latest HTML5 developments

Show: ☑Track 1 ☑Track 2

Schedule

- Registration
- Moving the Web forward with HTML5
- Diving in at the deep end with Canvas
- New Technologies in Enterprise
- WebSockets and You
- Coffee and Cake Break
- Building Responsive UIs
- Fun with Forms (no, really!)
- A Fresh Look at Layouts
- Real-world Applications of HTML5 APIs
- Lunch
- Getting to Grips with JavaScript
- Transforms and Animations
- Web Design Adventures with CSS3
- Introducing Data Access and Caching
- Closing Thanks and Prizes

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Label the checkboxes with the text **Track 1** and **Track 2.**

- Set the **id** attributes of the checkboxes to **show-track-1** and **show-track-2.**
- Mark the checkboxes as checked by default.

► Task 2: Write code to get the checkbox elements from the Schedule page

1. Open the **schedule.js** file.

2. After the **list** variable is defined, create two variables named **track1Checkbox** and **track2Checkbox**.

3. Add JavaScript code to get the checkbox elements **show-track-1** and **show-track-2** from the DOM and reference them in these variables.

- Use the jQuery method to get elements with the ids **show-track-1** and **show-track-2**.

► Task 3: Add click event listeners for each checkbox.

1. At the end of the **schedule.js** file, add an event listener for the click event of each checkbox. The event handler for each checkbox should call the **displaySchedule** function:

- Use the **bind** method of jQuery to add the event handler for each checkbox.

► Task 4: Update the displaySchedule function to display the sessions for selected tracks.

1. Modify the **displaySchedule** function to add sessions to the list only when they are in the currently selected tracks (one track, both tracks, or neither track might be selected).

- Examine the **checked** property of the **track1Checkbox** and **track2Checkbox** elements to determine which track the user has selected.
- The session parameter passed in to the **createSessionElement** method has a **tracks** property. This property is an array that specifies which track or tracks session belongs to.
- Use the **indexOf** function to determine whether the tracks property specifies that a session is in track 1, track 2, or both.

► Task 5: Run the web application and view the Schedule page.

1. Run the application and view the schedule.htm page.

2. Verify that if both checkboxes are selected all tracks are listed.

3. Verify that if only Track 1 or Track 2 is selected, only the sessions for that track appear.

4. Verify that if neither track is selected, no sessions are listed.

The sessions for Track 1 are:

- Registration.
- Moving the Web forward with HTML5.
- Diving in at the deep and with Canvas.
- WebSocket and You.

- Coffee and Cake Break.
- Building Responsive UIs.
- A Fresh Look at Layout.
- Lunch.
- Getting to Grips with JavaScript.
- Web Design Adventures with CSS3.
- Closing Thanks and Prizes.

The sessions for Track 2 are:

- Registraion.
- Moving the Web forward with HTML5.
- New Technologies in Enterprise.
- Coffee and Cake Break.
- Fun with Forms (no, really!).
- Real-world Applications of HTML5 APIs.
- Lunch.
- Transformations and Animations.
- Introducing Data Access and Caching.
- Closing Thanks and Prizes.