



Exam 70-494

Recertification for MCSD: Web Applications

Version: 8.0

[Total Questions: 249]

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You are developing an ASP.NET MVC application in Visual Studio 2012 that will be used by Olympic marathon runners to log data about training runs.

Business Requirements

The application stores date, distance, and duration information about a user's training runs. The user can view, insert, edit, and delete records.

The application must be optimized for accessibility.

All times must be displayed in the user's local time.

Technical Requirements

Data Access:

Database access is handled by a public class named RunnerLog.DataAccess.RunnerLogDb. All data retrieval must be done by HTTP GET and all data updates must be done by HTTP POST.

Layout:

All pages in the application use a master layout file named \Views\Shared_Layout.cshtml.

Models:

The application uses the \Models\LogModel.cs model.

Views:

All views in the application use the Razor view engine.

Four views located in \Views\RunLog are named:

- CalculatePace.cshtml
- Z EditLog.cshtml
- C GetLog.cshtml
- / InsertLog.cshtml

The application also contains a \Views\Home\Index.cshtml view.

Controllers:

The application contains a \Controllers\RunLogController.cs controller.

Images:

A stopwatch.png image is located in the \Images folder.

Videos:

A map of a runner's path is available when a user views a run log. The map is implemented



as an Adobe Flash application and video. The browser should display the video natively if possible, using H264, Ogg, or WebM formats, in that order. If the video cannot be displayed, then the Flash application should be used.

Security:

You have the following security requirements:

- The application is configured to use forms authentication.
- J Users must be logged on to insert runner data.
- *I* Users must be members of the Admin role to edit or delete runner data.
- There are no security requirements for viewing runner data.
- / You need to protect the application against cross-site request forgery.
- *I* Passwords are hashed by using the SHA1 algorithm.

RunnerLog.Providers.RunLogRoleProvider.cs contains a custom role provider.

Relevant portions of the application files follow. (Line numbers are included for reference only.)

Application Structure

Controllers\RunLogController.cs

```
RC01 public class RunLogController : Controller
RC02 {
RC03
      public ActionResult GetLog()
RC04
      {
RC05
        List<LogModel> log = RunnerLogDb.GetLogsFromDatabase();
RC06
         return View(log);
RC07
       3
RC08
RC09
      public ActionResult InsertLog()
RC10
       {
RC11
         LogModel log = new LogModel();
         log.RunDate = DateTime.Now;
RC12
         return View(log);
RC13
RC14
       -3
RC15
RC16
      [HttpPost]
RC17
     public ActionResult InsertLog(LogModel log)
RC18
      1
RC19
         RunnerLogDb.InsertLog(log);
RC20
         return RedirectToAction("GetLog");
RC21
      }
RC22
RC23
       public ActionResult DeleteLog(int id)
RC24
       -{
RC25
         RunnerLogDb.DeleteLog(id);
RC26
         return RedirectToAction("GetLog");
RC27
       3
RC28
RC29
       public ActionResult EditLog(int id)
RC30
         LogModel log = RunnerLogDb.GetRunnerLog(id);
RC31
RC32
         return View(log);
RC33
       - 3
RC34 }
```

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Models\LogModel.cs

```
LM01 public class LogModel
LM02 {
LM03
        [Required]
LM04
       public int Id { get; set; }
LM05
LM06
       [Required]
       public DateTime RunDate { get; set; }
LM07
LM08
LM09
       [Required]
LM10
       [Range (0.01, 1000.00)]
       public double Distance { get; set; }
LM11
LM12
LM13
       [Required]
LM14
       public TimeSpan Time { get; set; }
LM15
LM16
      public string ShortDate
LM17
       {
LM18
          get
LM19
          1
LM20
            return RunDate.ToLocalTime().ToShortDateString();
LM21
          }
LM22
        }
LM23 }
```

Views\RunLog_CalculatePace.cshtml

```
CP01 @model RunnerLog.Models.LogModel
CP02 @(Convert.ToInt32(Model.Time.TotalMinutes / Model.Distance)) Min
CP03 @(Convert.ToInt32(Model.Time.TotalSeconds % 60 / Model.Distance)) Seconds
```

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Views\RunLog\EditLog.cshtml

```
EL01 @model RunnerLog.Models.LogModel
EL02 <h2>Edit Log Item</h2>
EL03 <script src="@Url.Content("~/Scripts/jquery.validate.min.js")"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script><
EL04 <script src="@Url.Content("~/Scripts/jquery.validate.unobtrusive.min.js")"></
 script>
EL05
                   @using (Html.BeginForm())
EL06
                          @Html.AntiForgeryToken()
EL07
                            @Html.ValidationSummary(true)
EL08
                          <fieldset>
                                 <legend>LogModel</legend>
EL09
EL10
                                 <h3>
EL11
                                        Log Id: @Model.Id
EL12
                                </h3>
EL13
                                <div>
                                        @Html.LabelFor(model => model.Distance)
EL14
                                </div>
EL15
                                  <div>
EL16
                                         @Html.EditorFor(model => model.Distance)
EL17
EL18
                                        @Html.ValidationMessageFor(model => model.Distance)
                                  </div>
EL19
EL20
                                <div>
EL21
                                        @Html.LabelFor(model => model.Time)
EL22
                                 </div>
ET.23
                                 <div>
EL24
                                        @Html.EditorFor(model => model.Time)
EL25
                                         @Html.ValidationMessageFor(model => model.Time)
                                 </div>
EL26
EL27
                                 <input type="submit" value="Save" />
EL28
EL29
                                 EL30
                          </fieldset>
EL31 }
```

Views\RunLog\GetLog.cshtml

```
GL01
     @model List<RunnerLog.Models.LogModel>
GL02
     <h2>View Runs </h2>
GL03
    GL04
       >
GL05
        Id 
GL06
        >Date 
GL07
        >Distance 
GL08
        Duration 
GL09
        Avg Mile Pace 
GL10
      GL11
       @foreach (RunnerLog.Models.LogModel log in Model)
GL12
       -{
GL13
        >
GL14
          >
GL15
            @Html.DisplayFor(model => log.Id)
GL16
          GL17
         GL18
GT.19
         GL20
          GL21
           @Html.DisplayFor(model => log.Distance)
GL22
          GL23
          GL24
            @Html.DisplayFor(model => log.Time)
GL25
          GL26
          GL27
GL28
          GL29
          @Html.ActionLink("Edit", "EditLog", new { id = log.Id })
GL30
          GL31
GL32
          >
            @Html.ActionLink("Delete", "DeleteLog", new { id = log.Id })
GL33
GL34
          GL35
        3
GL36
GL37
```



Views\RunLog\InsertLog.cshtml

```
IL01 Amodel RunnerLog.Models.LogModel
IL02 <script src="@Url.Content("~/Scripts/jquery.validate.min.js")"></script>
IL03 <script src="@Url.Content("~/Scripts/jquery.validate.unobtrusive.min.js")"></
script>
IL04 @using (Html.BeginForm())
IL05
IL06
        @Html.ValidationSummary(true)
IL07
        <fieldset>
TL08
         <legend>LogModel</legend>
TL09
IL10
         <div>
IL11
            @Html.LabelFor(model => model.RunDate)
         </div>
IL12
TL13
         <div>
IL14
            GHtml.EditorFor(model => model.RunDate)
IL15
            @Html.ValidationMessageFor(model => model.RunDate)
          </div>
IL16
IL17
         <div>
           @Html.LabelFor(model => model.Distance)
IL18
TI.19
         </div>
IL20
         <div>
            @Html.EditorFor(model => model.Distance)
IL21
IL22
            @Html.ValidationMessageFor(model => model.Distance)
         </div>
IL23
TL24
         <div>
IL25
            @Html.LabelFor(model => model.Time) HH:MM:SS
IL26
         </div>
IL27
         <div>
IL28
           @Html.EditorFor(model => model.Time)
IL29
            @Html.ValidationMessageFor(model => model.Time)
IL30
         </div>
IL31
         IL32
            <input type="submit" value="Create" />
          IL33
IL34
       </fieldset>
IL35 }
```

Views\Shared_Layout.cshtml

```
L001
     <! DOCTYPE html>
L002
       <html lang="en">
L003
     <head>
L004
        . . .
L005
     </head>
L006
     <body>
L007
       . . .
L008
        <footer>
L009
          <script type="text/javascript">
L010
L011
            var c = document.getElementById('myCanvas');
L012
            var ctx = c.getContext('2d');
            ctx.font = '30pt Calibri';
L013
L014
            ctx.strokeStyle = 'gray';
            ctx.lineWidth = 3;
L015
L016
            ctx.strokeText('London 2012', 80, 30);
L017
          </script>
L018
        </footer>
L019
       </body>
L020
     </html>
```



Question No : 1 - (Topic 1)

You need to extend the edit functionality of RunLogController.

Which code segment should you use?

```
C A. [HttpGet]
      [ActionName("EditLog")]
      [ValidateAntiForgeryToken]
      public ActionResult EditLog(LogModel log)
      1
         . . .
      3
CB.
     [HttpPost]
      [ActionName("EditLog")]
      public ActionResult EditLogValidated(LogModel log)
      -{
         ...
      3
C C. [HttpPost]
      [ActionName("EditLog")]
      [ValidateAntiForgeryToken]
      public ActionResult EditLogValidated(LogModel log)
      {
        . . .
      }
C D. [HttpPost]
      [ActionName("EditLog")]
      [RequireHttps]
      public ActionResult EditLogValidated(LogModel log)
      {
         . . .
      }
A. Option A
```

B. Option B

- C. Option C
- **D.** Option D

Answer: C

Question No : 2 - (Topic 1)

The RunLog/Views/InsertLog.cshtml view must display the /Images/stopwatch.png image and the "Insert Run Data" header text below the image. The view should resemble the exhibit. (Click the Exhibit button.)

Insert Run Data
RunDate
4/25/2012 9:06:16 AM
Distance
0
Time HH:MM:SS
00:00:00
Create

The application must display the image above the field set.

You need to add the HTML code to /Runlog/Views/InsertLog.cshtml to display the image and header text.

Which code segment should you use?

```
CA.
      <h2>
        Insert Run Data
      </h2>
       <div>
        <img src="../Images/StopWatch.png"/>
       </div>
C B. <div style="background: url('../Images/StopWatch.png');">
        <h2>Insert Run Data</h2>
      </div>
C <div style="width: 130px; height: 100px;">
        <a href="../Images/StopWatch.png"></a>
      </div>
      <h2>
        Insert Run Data
       </h2>
C D. <div style="width: 130px; height: 100px; background: url
       ('../Images/StopWatch.png');">
      </div>
       <h2>
        Insert Run Data
       </h2>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

Explanation: Example:

<div style="background-image: url(../images/test-background.gif); height: 200px; width:</pre>