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Title: Developing ASP.NET MVC 4

Web Applications

Version: DEMO

1. Topic 1, Olympic Marathon

Background

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
- EditLog.cshtml
- 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.
- Users must be logged on to insert runner data. -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.
- 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

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

Models\LogModel.cs

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

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>
EL04 <script src="@Url.Content("~/Scripts/jquery.validate.unobtrusive.min.js")"></
script>
EL05 @using (Html.BeginForm()) {
EL06
        @Html.AntiForgeryToken()
        @Html.ValidationSummary(true)
FLO7
EL08
       <fieldset>
EL09
         <legend>LogModel</legend>
EL10
         <h3>
EL11
           Log Id: @Model.Id
EL12
        </h3>
EL13
        <div>
            @Html.LabelFor(model => model.Distance)
EL14
EL15
        </div>
EL16
         <div>
EL17
            @Html.EditorFor(model => model.Distance)
EL18
            @Html.ValidationMessageFor(model => model.Distance)
        </div>
EL19
EL20
        <div>
EL21
           @Html.LabelFor(model => model.Time)
EL22
        </div>
EL23
        <div>
EL24
           @Html.EditorFor(model => model.Time)
EL25
           @Html.ValidationMessageFor(model => model.Time)
EL26
        </div>
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 
       Duration 
GL08
       Avg Mile Pace 
GL09
GL10
      GL11
     @foreach (RunnerLog.Models.LogModel log in Model)
GL12
GL13
       GL14
         GL15
           @Html.DisplayFor(model => log.Id)
GL16
         GL17
         GL18
GL19
         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
         GL33
           @Html.ActionLink("Delete", "DeleteLog", new { id = log.Id })
GL34
         GL35
       GL36
      3
GL37
```

Views\RunLog\InsertLog.cshtml

```
IL01 @model RunnerLog.Models.LogModel
IL02 <script src="@Url.Content("~/Scripts/jquery.validate.min.js")"></script>
ILO3 <script src="@Url.Content("~/Scripts/jquery.validate.unobtrusive.min.js")"></
script>
IL04 Gusing (Html.BeginForm())
IL05 {
IL06
        @Html.ValidationSummary(true)
IL07
       <fieldset>
         <legend>LogModel</legend>
IL08
IL09
IL10
        <div>
IL11
           @Html.LabelFor(model => model.RunDate)
         </div>
IL12
IL13
         <div>
IL14
            GHtml.EditorFor(model => model.RunDate)
IL15
            GHtml.ValidationMessageFor(model => model.RunDate)
IL16
         </div>
IL17
         <div>
IL18
            @Html.LabelFor(model => model.Distance)
IL19
         </div>
IL20
         <div>
IL21
            @Html.EditorFor(model => model.Distance)
IL22
            @Html.ValidationMessageFor(model => model.Distance)
IL23
         </div>
         <div>
IL24
            @Html.LabelFor(model => model.Time) HH:MM:SS
IL25
IL26
         </div>
IL27
         <div>
            @Html.EditorFor(model => model.Time)
IL28
IL29
            @Html.ValidationMessageFor(model => model.Time)
IL30
         </div>
IL31
         >
            <input type="submit" value="Create" />
IL32
         IL34
       </fieldset>
IL35 }
```

Views\Shared_Layout.cshtml

```
L001
      <!DOCTYPE html>
       <html lang="en">
L002
L003
     <head>
L004
        . . .
      </head>
L005
L006
      <body>
L007
       . . .
L008
        <footer>
L009
L010
          <script type="text/javascript">
            var c = document.getElementById('myCanvas');
L011
L012
            var ctx = c.getContext('2d');
            ctx.font = '30pt Calibri';
L013
L014
            ctx.strokeStyle = 'gray';
L015
            ctx.lineWidth = 3;
L016
            ctx.strokeText('London 2012', 80, 30);
L017
          </script>
L018
        </footer>
L019
       </body>
LO20
       </html>
```

DRAG DROP

You need to implement the Views\RunLog_CalculatePace.cshtml partial view from Views\Runlog \GetLog.cshtml to display the runner's average mile pace.

How should you implement the view? (To answer, drag the appropriate code segments to the correct location or locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
@Html.Partial(
    @Html.DisplayFor(model => log.Time)

        "_CalculatePace.cshtml", log)
        "_CalculatePace", log)

        "_CalculatePace")

        "_CalculatePace")

        "_CalculatePace")

        "_CalculatePace")

        "_CalculatePace")

        "_CalculatePace")

        "_CalculatePace")

        */td>

        (/td>

        (/td>

        (/td>

        (/td>

        (/td>
```

Answer:

2.DRAG DROP

You need to implement security according to the business requirements.

How should you modify RunLogController? (To answer, drag the appropriate code segment to the correct location or locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

```
[Authorize(Roles = "Admin")]

[Authorize(Users = "Admin")]

[AllowAnonymous]

[Authorize(Users = "*")]

[Authorize(Users = "*")]

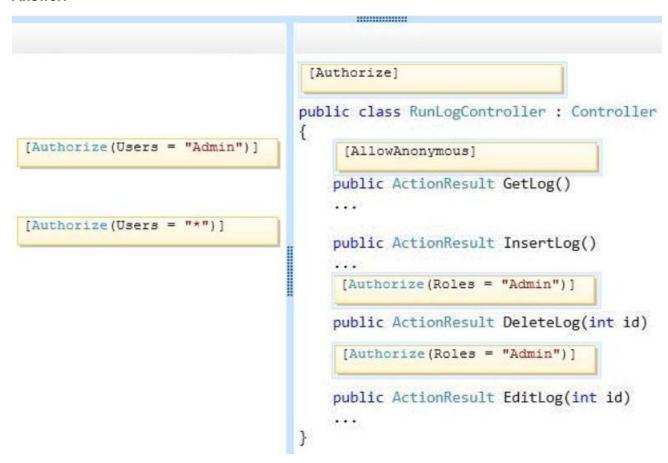
public ActionResult GetLog()
...

public ActionResult InsertLog()
...

public ActionResult DeleteLog(int id)

public ActionResult EditLog(int id)
...
}
```

Answer:



3. You need to make the "Distance" header of the table bold in the Views/RunLog/GetLog.cshtml view. Which code segment should you use?

A. table>tr{ font-weight: bold; }

B. table>th:last-child{ font-weight: bold; }

C. table+first-child{ font-weight: bold; }

D. table>tr>th:nth-child (2) { font-weight: bold; }

Answer: D

4. You need to extend the edit functionality of RunLogController.

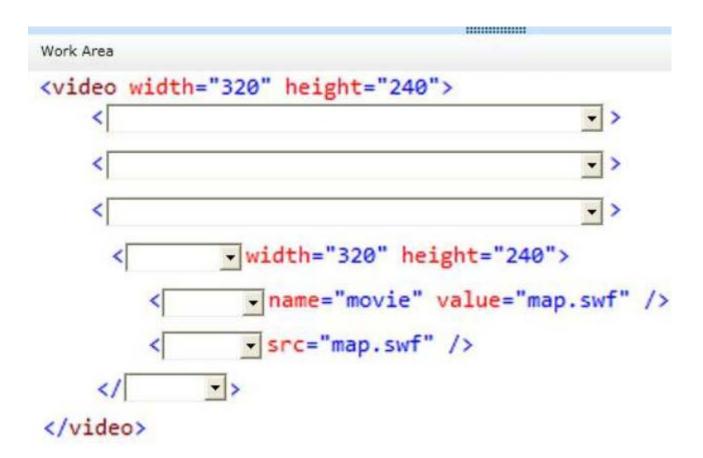
Which code segment should you use?

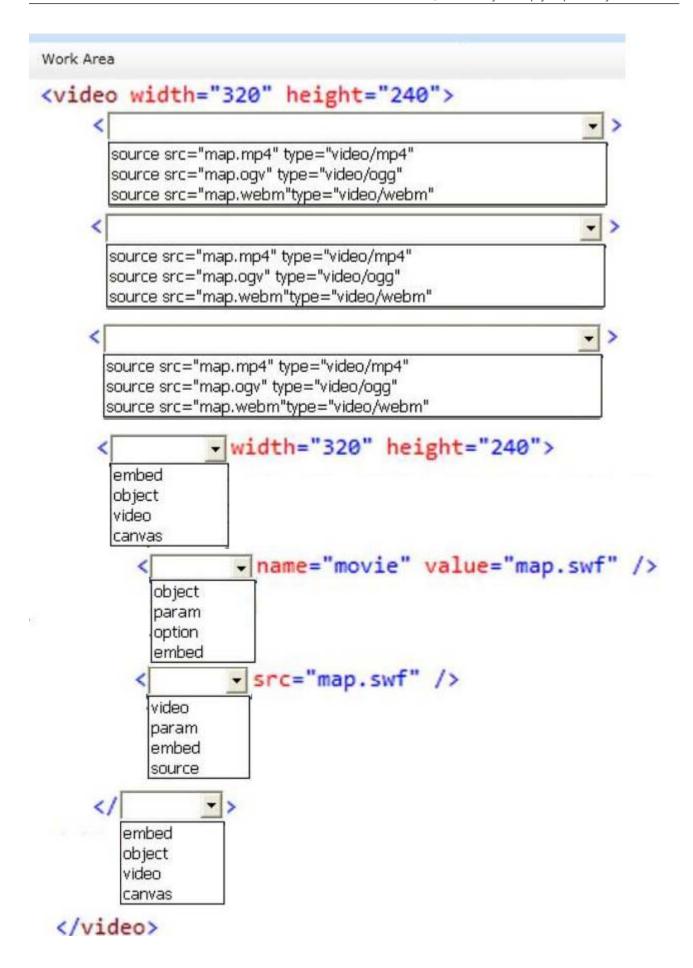
```
C A. [HttpGet]
      [ActionName ("EditLog")]
      [ValidateAntiForgeryToken]
      public ActionResult EditLog(LogModel log)
CB.
     [HttpPost]
      [ActionName ("EditLog")]
      public ActionResult EditLogValidated(LogModel log)
      {
C. [HttpPost]
      [ActionName ("EditLog")]
      [ValidateAntiForgeryToken]
      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
```

5.HOTSPOT

You need to implement the map of the runners' paths.

How should you build the video viewer? (To answer, select the appropriate options in the answer area.)





Answer:

