

> Vendor: Microsoft

Exam Code: 70-486

Exam Name: Developing ASP.NET MVC 4 Web Applications

Question 61 -- Question 90

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Case Study 1 - Olympic Marathon Runners (QUESTION 61 - QUESTION 71)

For help on how to answer the questions, click the Instuctions button on the question screen. **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.

I avout:

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.cshtmlGetLog.c shtmlInsertLog.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

```
RC01 public class RunLogController : Controller
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();
RC12
         log.RunDate = DateTime.Now;
RC13
         return View(log);
RC14
      3
RC15
RC16
      [HttpPost]
RC17
      public ActionResult InsertLog(LogModel log)
RC18
         RunnerLogDb.InsertLog(log);
RC19
RC20
         return RedirectToAction("GetLog");
RC21
      3
RC22
RC23
      public ActionResult DeleteLog(int id)
RC24
RC25
         RunnerLogDb.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



```
RC01 public class RunLogController : Controller
RC02
RC03
       public ActionResult GetLog()
RC04
RC05
          List<LogModel> log = RunnerLogDb.GetLogsFromDatabase();
RC06
         return View(log);
RC07
RC08
      public ActionResult InsertLog()
RC09
RC10
RC11
          LogModel log = new LogModel();
         log.RunDate = DateTime.Now;
RC12
RC13
          return View(log);
RC14
     3
RC15
RC16
       [HttpPost]
      public ActionResult InsertLog(LogModel log)
RC17
RC18
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
RC28
      public ActionResult EditLog(int id)
RC29
RC30
          LogModel log = RunnerLogDb.GetRunnerLog(id);
RC31
RC32
          return View(log);
RC33
RC34 }
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>
ELO5 @using (Html.BeginForm()) {
     @Html.AntiForgeryToken()
EL06
       @Html.ValidationSummary(true)
EL08
       <fieldset>
EL09
        <legend>LogModel</legend>
EL10
        <h3>
           Log Id: @Model.Id
EL11
EL12
        </h3>
        <div>
EL13
EL14
           @Html.LabelFor(model => model.Distance)
EL15
        </div>
EL16
        <div>
         @Html.EditorFor(model => model.Distance)
EL17
EL18
          @Html.ValidationMessageFor(model => model.Distance)
        </div>
EL19
EL20
        <div>
EL21
           @Html.LabelFor(model => model.Time)
        </div>
EL22
EL23
        <div>
         @Html.EditorFor(model => model.Time)
EL24
EL25
          @Html.ValidationMessageFor(model => model.Time)
EL26
       </div>
EL27
        >
           <input type="submit" value="Save" />
EL28
FT.29
        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
     1
     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
GL37
```

Views\RunLog\InsertLog.cshtml



```
IL01 @model RunnerLog.Models.LogModel
ILO2 <script src="@Url.Content("~/Scripts/jquery.validate.min.js")"></script>
ILO3 <script src="@Url.Content("~/Scripts/jquery.validate.unobtrusive.min.js")"></
script>
IL04 @using (Html.BeginForm())
IL05
IL06
       @Html.ValidationSummary(true)
       <fieldset>
TT-07
IL08
        <legend>LogModel</legend>
IL09
IL10
        <div>
           @Html.LabelFor(model => model.RunDate)
TT.11
IL12
         </div>
        <div>
IL13
           @Html.EditorFor(model => model.RunDate)
TT.14
IL15
           @Html.ValidationMessageFor(model => model.RunDate)
IL16
        </div>
TT.17
        <div>
IL18
          @Html.LabelFor(model => model.Distance)
        </div>
IL19
IL20
        <div>
          @Html.EditorFor(model => model.Distance)
IL21
IL22
           @Html.ValidationMessageFor(model => model.Distance)
IL23
        </div>
        <div>
TT.24
IL25
           @Html.LabelFor(model => model.Time) HH:MM:SS
        </div>
TT-26
II.27
        <div>
          @Html.EditorFor(model => model.Time)
IL29
           @Html.ValidationMessageFor(model => model.Time)
        </div>
IL30
IL31
        >
IL32
           <input type="submit" value="Create" />
TL33
         IL34
       </fieldset>
IL35 }
```

Views\Shared_Layout.cshtml



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

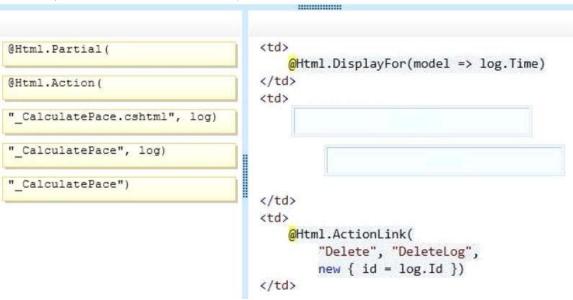
QUESTION 61

Drag and Drop Question

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.)



Answer:



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```
.....
                               @Html.DisplayFor(model => log.Time)
                               @Html.Action (
                               " CalculatePace.cshtml", log)
                                    @Html.Partial(
                                        " CalculatePace", log)
" CalculatePace")
                               @Html.ActionLink(
                                      "Delete", "DeleteLog",
                                      new { id = log.Id })
```

QUESTION 62

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:

Explanation:

Answer is "no one":

1. is bold by default

http://www.w3schools.com/tags/tag_th.asp

The text in elements are bold and centered by default.

The text in elements are regular and left-aligned by default.

- 1. table > tr selects no element, should be simply "table tr"
- 2. nth-child(2) is 2nd column, i.e. "Date"

QUESTION 63

Drag and Drop Question

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:

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

[Authorize(Users = "Admin")]

[Authorize(Users = "Admin")]

[Authorize(Users = "*")]

[Authorize(Users = "*")]

[Authorize(Roles = "Admin")]

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

QUESTION 64

You need to extend the edit functionality of RunLogController. Which code segment should you

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```
use?
CA
      [HttpGet]
       [ActionName ("EditLog")]
       [ValidateAntiForgeryToken]
       public ActionResult EditLog(LogModel log)
         . . .
       }
C B. [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)
       1
         ...
       3
A. Option A
B. Option B
C. Option C
D. Option D
```

Answer: C

QUESTION 65

Drag and Drop Question

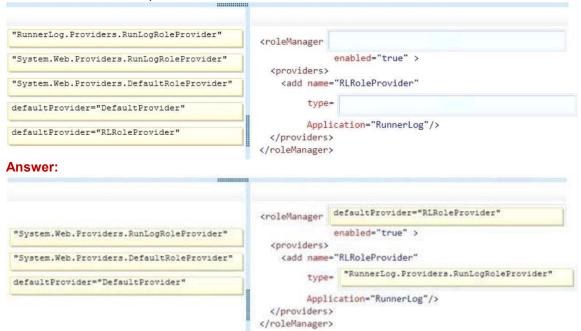
You need to ensure that the application uses RunLogRoleProvider custom role provider. How should you modify the web.config file?

(To answer, drag the appropriate line of code to the correct location or locations. Each line of code

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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.)



QUESTION 66

Drag and Drop Question

You need to ensure that only valid parameters are passed to the EditLog action.

How should you build the route?

(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.)



```
id = @"\d+"
    routes.MapRoute(
    name: "EditLog",

action = "EditLog",

defaults: new

constraints: new

{
    controller = "RunLog",

}
}
```

Answer:



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```
.....
id = @" \d+"
                              routes.MapRoute(
                                name: "EditLog",
url: "RunLog/EditLog/{id}",
                                    url: "RunLog/EditLog/{id}",
action = "EditLog",
                                    defaults: new
defaults: new
                                {
constraints: new
                                      controller = "RunLog",
                                          action = "EditLog",
                                 },
                                    constraints: new
                                         id = @" \d+"
```

QUESTION 67

If the canvas element is supported by the client browser, the application must display "London 2012" in the footer as text formatted by JavaScript at the end of the _Layout.cshtml file. You need to modify the layout to ensure that "London 2012" is displayed as either formatted text

or as plain text, depending on what the client browser supports. Which code segment should you add?

- B. <canvas id="myFooter"London 2012</canvas>
- C. <canvas id="myCanvas">London 2012</canvas>
- D. <canvas id="myCanvas"><canvas> London 2012

Answer: C

QUESTION 68

You need to add an action to RunLogController to validate the users' passwords. Which code segment should you use?



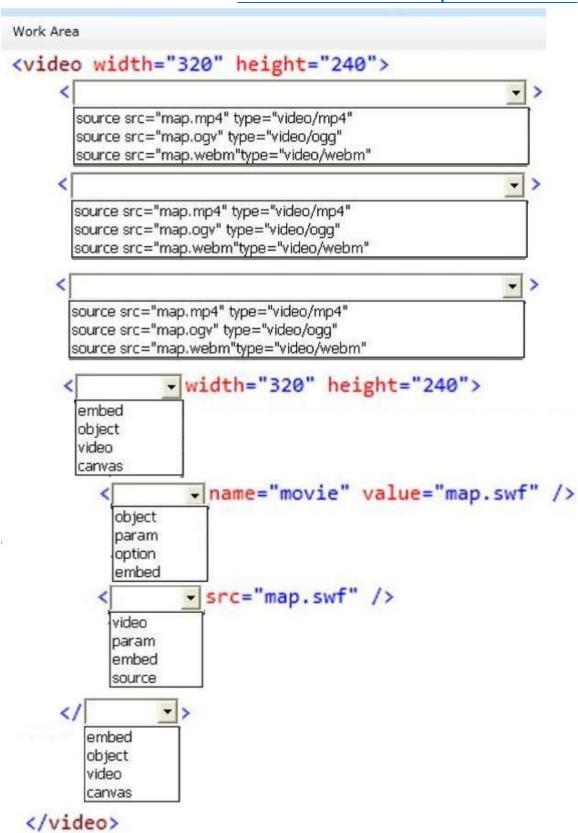
```
C A public ActionResult Login(string username, string password)
        byte[] buffer = Encoding.UTF8.GetBytes(password + username);
        byte[] hash = MD5.Create().ComputeHash(buffer);
        ComparePassword (username, hash);
        return ContextDependentView();
      1
C B. [RequireHttps]
      public ActionResult Login(string username, string password)
        byte[] buffer = Encoding.UTF8.GetBytes(password + username);
        byte[] hash = SHA1.Create().ComputeHash(buffer);
        ComparePassword(username, hash);
        return ContextDependentView();
C. public ActionResult Login(string username, string password)
        byte[] buffer = Encoding.UTF8.GetBytes(password + username);
       byte[] hash = SHA1.Create().ComputeHash(buffer);
        ComparePassword (username, hash);
        return ContextDependentView();
      }
C D. [RequireHttps]
      public ActionResult Login(string username, string password)
        byte[] buffer = Encoding.UTF8.GetBytes(password + username);
        byte[] hash = MD5.Create().ComputeHash(buffer);
        ComparePassword(username, hash);
        return ContextDependentView();
      3
A. Option A
B. Option B
C. Option C
D. Option D
```

Answer: B

QUESTION 69

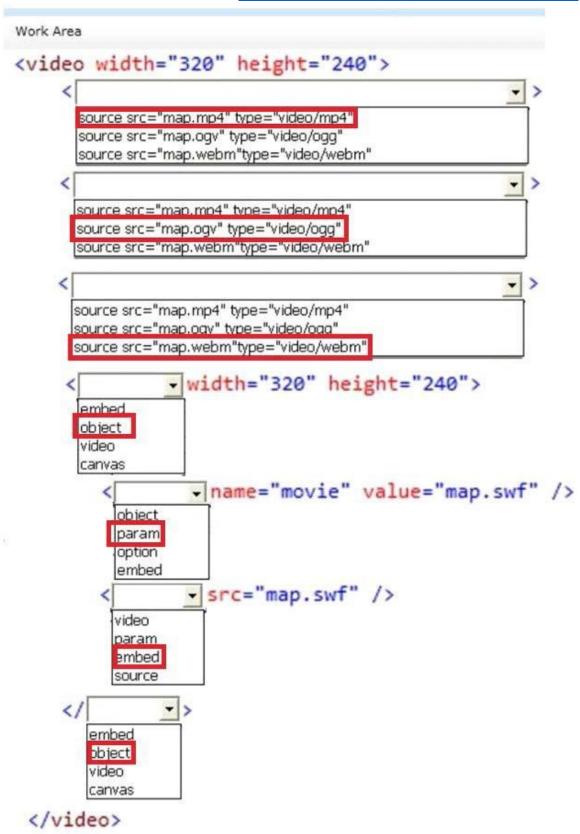
You need to implement the map of the runners' paths. How should you build the video viewer? (To answer, select the appropriate options in the answer area.)





Answer:







QUESTION 70

You need to make all of the rows in the table bold in the Views/RunLog/GetLog.cshtml view. Which code segment should you use?

- A. table > th:last-child { font-weight: bold; }
- B. table + first-child { font-weight: bold; }
- C. table > tr > th:nth-child{2) { font-weight: bold; }
- D. table > tr { font-weight: bold; }

Answer: D

QUESTION 71

You need to display the "miles" unit description after the distance in the GetLog view. Which line of code should you use to replace line GL21? (Each correct answer presents a complete solution. Choose all that apply.)

- A. @log.Distance miles
- B. @Html.DisplayFor(model => log.Distance) miles
- C. @log.Distance.ToString() @Html.TextArea("miles")
- D. @Html.DisplayFor(model => log.Distance.ToString() + " miles")

Answer: AB

Case Study 2 - Shopping Web Application (QUESTION 72 - QUESTION 86)

For help on how to answer the questions, click the Instuctions button on the question screen. **Background**

You are developing an online shopping web application.

Business Requirements

- A user is not required to provide an email address. If a user enters an email address, it must be verified to be a valid email address.
- Information about the first product on the product page must fade out over time to encourage the user to continue browsing the catalog.
- Administrators must be able to edit information about existing customers. $\boldsymbol{\cdot}$
- Administrators also must be able to specify a default product on the product page.

Technical Requirements

General:

- The web store application is in a load-balanced web farm.
- The load balancer is not configured to use server affinity.
- The web store application is an ASP.NET MVC application written in Visual Studio 2012.

Products:

- The value of the productId property must always be greater than 0.
- The Products page for mobile devices must display to mobile users.
- The Products page for desktop devices must display to desktop users.

Storage:

- The data must be stored in a serialized XML data format.
- Serialized objects must be schema-independent.

Exception handling:

- Exceptions originating from IIS must display a page with support contact information.



- Some page links expire, and users who access these links encounter 404 errors.
- Exceptions must be logged by using the WriteLog method of the Utility class.

Browser and device support:

- The application must support image format conversions from .bmp to .jpeg for mobile devices.
- The application must support image format conversions from .bmp to .png for desktop devices.

```
Application Structure
Customer.cs
public class Customer
  const string EmailRegex = @"($^)|([A-Za-z0-9 \.-]*@[A-Za-z0-9-]*\.[A-Za-z]*)";
  const string EmailErrorMessage = "Please enter a valid email address";
 public string Email { get; set; }
  public string Name { get; set; }
Product.cs
public class Product
   public string ProductId { get; set; }
   public string Name { get; set; }
   public decimal Price { get; set; }
web.confia
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <appSettings>
    <add key="PreserveLoginUrl" value="true" />
    <add key="ClientValidationEnabled" value="true" />
    <add key="UnobtrusiveJavaScriptEnabled" value="true" />
  </appSettings>
  <system.web>
    <compilation debug="true" targetFramework="4.5" />
    <httpRuntime targetFramework="4.5"
 encoderType="System.Web.Security.AntiXss.AntiXssEncoder,
 System.Web, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f1ld50a3a" />
    <machineKey compatibilityMode="Framework45" />
```


<add name="DefaultSessionProvider"
type="System.Web.Providers.DefaultSessionStateProvider,</pre>

<sessionState mode="..." customProvider="DefaultSessionProvider">

QUESTION 72

</configuration>

You need to ensure that new customers enter a valid email address.

Which code should you use?

oviders>

(Each correct answer presents part of the solution. Choose all that apply.)



Answer: AD

D. Option D

QUESTION 73

You need to implement the requirements for handling IIS errors. What should you do?



C A Update the customErrors attribute in the web.config file as follows.

```
<customErrorsmode="On"defaultRedirect="CustomErrorView">
<errorstatusCode="404"redirect="Error/Error404"/>
</customErrors>
```

C B. Update the customErrors attribute in the app.config file as follows.

```
<customErrorsmode="Off"defaultRedirect="CustomErrorView">
<errorstatusCode="404"redirect="Error/Error404"/>
</customErrors>
```

C. Update the customErrors attribute in the app.config file as follows.

```
<customErrorsmode="On"defaultRedirect="CustomErrorView">
<errorstatusCode="401"redirect="Error/Error401"/>
</customErrors>
```

C D. Update the customErrors attribute in the web.config file as follows.

```
<customErrorsmode="On"defaultRedirect="CustomErrorView">
<errorstatusCode="403"redirect="Error/Error403"/>
</customErrors>
```

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

Answer: A

QUESTION 74

You need to add a method to the ProductController class to meet the exception handling requirements for logging. Which code segment should you use?

```
    A protected override void OnException(ExceptionContext filterContext)

        Utility.WriteLog(filterContext.Exception);
        if (filterContext.HttpContext.IsCustomErrorEnabled)
          filterContext.ExceptionHandled = true;
          this. View ("Error") . ExecuteResult (this. ControllerContext);
      }
C B. protected override void OnException(ExceptionContext filterContext)
        Utility.WriteLog(filterContext.Exception);
        if (System.Diagnostics.Debugger.IsAttached)
          filterContext.ExceptionHandled = true;
          this. View ("Error") . ExecuteResult (this. ControllerContext);
      }
  C. protected override void OnException(ExceptionContext filterContext)
        1
          if (!System.Diagnostics.Debugger.IsLogging())
            Utility.WriteLog(filterContext.Exception);
            filterContext.ExceptionHandled = true;
            this. View ("Error"). ExecuteResult (this. ControllerContext);
        }
  C D. protected override void OnException(ExceptionContext filterContext)
          Utility.WriteLog(filterContext.Exception);
          if (filterContext.HttpContext.IsDebuggingEnabled)
            filterContext.ExceptionHandled = true;
            this. View ("Error") . ExecuteResult (this. ControllerContext);
        3
```

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

Answer: A



QUESTION 75

You are designing a Windows Communication Foundation (WCF) service that uses the Product class.

You need to update the class to meet the storage requirement.

What should you do?

(Each correct answer presents part of the solution. Choose all that apply.)

- A. Mark the Product class with the DataContract attribute.
- B. Mark the public members of the Product class with the DataContractFormat attribute.
- C. Mark the Product class with the CollectionDataContract attribute.
- D. Mark the public members of the Product class with the DataMember attribute.

Answer: AD

QUESTION 76

An advertising campaign was recently launched. Some of the ads contain a link to products that no longer exist or have IDs that have changed.

You need to ensure that all product links display a product.

Which code segment should you use to configure the route?

```
C A. routes.MapRoute(
        "Product",
        "Product/{action}/{productName}",
       new { action = "Show", productName = DefaultProduct }
      );
CB. routes.MapRoute(
        "Product",
        "{productName}/{action}/{id}",
       new { action = "Show", productName = DefaultProduct }
C. C. routes.MapPageRoute(
        "Product",
        "{ProductName}/{action}/{id}",
        "~/product.aspx",
        false,
        new RouteValueDictionary { { "action", "Show" }, { "productName",
      DefaultProduct } });
C D. routes.MapPageRoute(
        "Product",
        "Product/{action}/{productName}",
        "~/product.aspx",
        false.
        new RouteValueDictionary { { "action", "Show" }, { "productName",
      DefaultProduct } });
```

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



Answer: A

QUESTION 77

You need to modify the application to meet the productld requirement. What should you do?

- A. Modify the RegisterGlobalFilters method of the Global.asax.es file as follows. Contract.Assume<ArgumentException>(productId != 0);
- B. Modify the GetDealPrice method of ProductController as follows.
 Contract.Requires<ArgumentException>(productId > 0);
- C. Modify the RegisterGlobalFilters method of the Global.asax.es file as follows. Contract.Requires<ArgumentException>(productId > 0);
- D. Modify the GetDealPrice method of ProductController as follows. Contract.Assume<ArgumentException>(productId > 0);

Answer: B

QUESTION 78

You need to implement the business requirements for managing customer data. What should you do?

(Each correct answer presents part of the solution. Choose all that apply.)

- A. Add a class named CustomerController to the Controllers folder. Then add a method named Edit to the class.
- B. Create a new controller named Administration in the Controllers folder. Add an action named EditCustomer to the controller.
- C. Add a folder named Customer to the Views folder.
 Then create a view inside this folder named Edit.aspx.
- D. Create a new folder named EditCustomer to the Views folder. In the new folder, create a new file named Administration.aspx.

Answer: AC

QUESTION 79

When users attempt to retrieve a product from the product page, a run-time exception occurs if the product does not exist.

You need to route the exception to the CustomException.aspx page.

Which method should you add to MvcApplication?



```
    A. public static void RegisterGlobalFilters(GlobalFilterCollection filters)

        filters.Add(new HandleErrorAttribute
         ExceptionType = typeof(IndexOutOfBoundsException),
         View = "CustomException",
       1);
C B. public static void RegisterGlobalFilters(GlobalFilterCollection filters)
       filters.Add(new HandleErrorAttribute
         ExceptionType = typeof(NullReferenceException),
         View = "CustomException",
       1);
      3
C. public static void RegisterGlobalFilters(GlobalFilterCollection filters)
        filters.Add(new HandleErrorAttribute
          ExceptionType = typeof(IndexOutOfBoundsException),
          Handler = "CustomException",
        1);
      1
C D. public static void RegisterGlobalFilters(GlobalFilterCollection filters)
        filters.Add(new HandleErrorAttribute
          ExceptionType = typeof(NullReferenceException),
          Handler = "CustomException",
        1);
      3
```

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

Answer: B

QUESTION 80

You updated the web.config file with the HTTP run-time value required to display an alternative version of the site.

You need to ensure that the correct page displays to the users.

Which code segment should you use to update the controller?

- A. if (Request.IsTabletDevice)
- B. if (Request.Browser.IsBrowser("Mobile"))
- C. if (Request.UserAgent["Tablet"])
- D. if (Request.Browser.IsMobileDevice)

Answer: D



QUESTION 81

The GetDealPrice method must be called by using Ajax.

You need to get the price of a product by using the GetDealPrice method of the ProductController. Which code segment should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

```
ΓA.
      S.ajax({
        type: "POST",
        dataType: "json",
        contentType: "application/json",
        url: "Product/GetDealPrice",
        data: "{'productId': '" + productId + "'}",
         success: function (data) {
          $(".price").html(data.d);
      });

    □ B. $.load({
        dataType: "json",
        contentType: "application/json",
        url: "Product/GetDealPrice/" + productId,
         success: function (data) {
          $ (".price") .html (data.d);
      });
type: "GET",
         dataType: "json",
         contentType: "application/json",
         url: "Product/GetDealPrice/" + productId,
          success: function (data) {
           $(".price").html(data.d);
       });
D. $.getJSON("Product/GetDealPrice/" + productId
         function (data) {
           $(".price").html(data.d);
       );
```



B. Option BC. Option CD. Option D

Answer: CD

QUESTION 82

You need to implement client-side animations according to the business requirements. Which line of code should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

- A. \$("body h1:nth-child(1)").fadeIn(1000);
- B. \$("body h1:nth-child(1)").fadeOut(1000);
- C. \$("body h1:nth-child(1)").animate({ opacity: 0 });
- D. \$("body h1:nth-child(1)").animate({ opacity: 1 });

Answer: BC

QUESTION 83

You need to implement client-side animations according to the business requirements. Which line of code should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

- A. \$ ("h1: first").animate ({ opacity: 0 });
- B. \$("h1:first").fadeIn(1000);
- C. \$("h1:first").animate({ opacity: 1 });
- D. \$("h1:first").fadeOut(1000);

Answer: AD

QUESTION 84

You need to configure session storage in the web.config file to meet the technical requirements for scalability.

Which SessionState mode should you use?

(Each correct answer presents a complete solution. Choose all that apply.)

- A. StateServer
- B. InProc
- C. AutoDetect
- D. SqlServer

Answer: AD

QUESTION 85

You need to implement the mobile device support requirements. How should you build the ProcessRequest method? (To answer, select the appropriate options in the answer area.)



Answer:

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```
.....
   Work Area
 protected override void ProcessRequest(HttpContext httpContext)
   var response = httpContext.Response;
   var mobileFormat =
                                                  v ;
                        "image/png"
                        "image/gif"
                        "image/jpeg"
                        "image/bmp"
  var normalFormat =
                        "image/png"
                       "image/gif"
                       "image/jpeg"
                       "image/bmp"
                                     .ContentType ==
                                                                            + )
   if (httpContext.
                      Response
                                                      "image/png"
                      Request
                                                      "image/gif"
                      Application
                                                      "image/jpeg"
                      Handler
                                                      "image/bmp"
     if (httpContext.
                                                                            - )
                        Response
                                           Browser, IsMobileDevice
                                           Browser.IsBrowser("MobileDevice")
                        Request
                                           Mobile == "android|iP(hone|od)"
                        Application
                                           Mobile == "+mobile|tablet"
                        Handler
      WriteImage(response, mobileFormat);
    }
    else
      WriteImage(response, normalFormat);
  else
    base.ProcessRequest(httpContext);
}
```



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```
.....
   Work Area
 protected override void ProcessRequest(HttpContext httpContext)
   var response = httpContext.Response;
   var mobileFormat =
                                                  ¥ ;
                        "image/png"
                        "image/gif"
                        "image/ipeq"
                        "image/bmp"
  var normalFormat =
                       "image/png"
                        image/gif
                        'image/jpeg"
                       "image/bmp"
   if (httpContext
                                     .ContentType ==
                                                                             T)
                      Response
                                                       "image/png"
                      Request
                                                      "image/gif"
                      Application
                                                      "image/ipeg"
                      Handler
                                                      "image/bmp'
     if (httpContext.
                                       •
                                                                            T)
                                           Browser.IsMobileDevice
                        Response
                                           Browser.IsBrowser("MobileDevice")
                        Request
                                           Mobile == "android|iP(hone|od)"
                        Application
                                           Mobile == "+mobile| tablet"
                        Handler
    {
      WriteImage(response, mobileFormat);
    }
    else
      WriteImage(response, normalFormat);
  else
    base.ProcessRequest(httpContext);
}
```

QUESTION 86

You need to update the routes to ensure that a product is always displayed on the product page. Which code segment should you use?



```
CA. routes.MapRoute(
        "Product",
        "{productName}/{action}/{id}",
       new { action = "Show", productName = DefaultProduct }
CB. routes.MapRoute(
        "Product",
        "Product/{action}/{productName}",
        new { action = "Show", productName = DefaultProduct }
C. routes.MapPageRoute(
        "Product",
        "Product/{action}/{productName}",
        "~/product.aspx",
        false,
        new RouteValueDictionary { { "action", "Show" }, { "productName", DefaultProduct }
C D. routes.MapPageRoute (
        "Product",
        "{ProductName}/{action}/{id}",
        "~/product.aspx",
        false,
        new RouteValueDictionary { { "action", "Show" }, { "productName", DefaultProduct }
```

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

Answer: B

Case Study 3 - Video Transcoding Service (QUESTION 87 - QUESTION 95)

For help on how to answer the questions, click the Instuctions button on the question screen.

Background

You are developing a video transcoding service. This service is used by customers to upload video files, convert video to other formats, and view the converted files. This service is used by customers all over the world.

Business Requirements

- The user-facing portion of the application is an ASP.NET MVC application.
- It provides an interface for administrators to upload video and schedule transcoding.
- It also enables administrators and users to download the transcoded videos.
- When videos are uploaded, they are populated with metadata used to identify the video.
- The video metadata is gathered by only one system when the video upload is complete.
- Customers require support for Microsoft Internet Explorer 7 and later.
- The application contains a header that is visible on every page.
- If the logged-on user is an administrator, then the header will contain links to administrative functions. This information is read from a cookie that is set on the server.
- The administrative links must not be present if an error condition is



present.

Technical Requirements User Experience:

- The front-end web application enables a user to view a list of videos.
- The main view of the application is the web page that displays the list of videos.
- HTML elements other than the list of videos are changed with every request requiring the page to reload.

Compatibility:

- Some customers use browsers that do not support the HTTP DELETE verb.
- These browsers send a POST request with an HTTP header of X-Delete when the intended action is to delete.

Transcoding:

- The video transcoding occurs on a set of Windows Azure worker roles.
- The transcoding is performed by a third-party command line tool named transcode.exe. When the tool is installed, an Environment variable named transcode contains the path to the utility.
- A variable named license contains the license key. The license for the transcoding utility requires that it be unregistered when it is not in use.
- The transcoding utility requires a significant amount of resources. A maximum of 10 instances of the utility can be running at any one time. If an instance of the role cannot process an additional video, it must not prevent any other roles from processing that video.
- The utility logs errors to a Logs directory under the utilities path.
- A local Azure directory resource named perf is used to capture performance data.

Development:

- Developers must use Microsoft Remote Desktop Protocol (RDP) to view errors generated by the transcode.exe utility.
- An $\times 509$ certificate has been created and distributed to the developers for this purpose.
- Developers must be able to use only RDP and not any other administrative functions.

Application Structure TranscodeWorkerRole.cs

```
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```

```
public class TranscodeWorkerRole : RoleEntryPoint
{
   public override void Run()
   {
     while (true)
     {
       var nextWorkItem = GetWorkItem();
       TranscodeService.Start(new [] { nextWorkItem } );
     }
   }
   private string GetWorkItem()
   {
     ...
   }
}
```

ThumbnailGenerator.cs

```
public class TranscodeWorkerRole : RoleEntryPoint
{
   public override void Run()
   {
      while (true)
      {
            var nextWorkItem = GetWorkItem();
            TranscodeService.Start(new [] { nextWorkItem } );
      }
   }
   private string GetWorkItem()
   {
      ...
   }
}
```

VideoController.cs



```
[Authorize]
public class VideoController : Controller
 public FileResult DownloadVideo(string videoId)
    var stream = GetVideoStream(videoId);
   return File(stream, "video/mpeg");
  }
  [HttpPost]
 public ActionResult UploadVideo(string videoId)
   return View();
  [HttpDelete]
 public ActionResult DeleteVideo(string videoId)
   return View();
 public ActionResult VideoMetadata(string videoId)
    var metadata = HttpRuntime.Cache[videoId];
    if (metadata == null)
     metadata = LoadMetadata(videoId);
     HttpRuntime.Cache[videoId] = metadata;
   }
   return View (metadata);
  }
 public ActionResult ListVideos()
   return View();
```

DeleteHandler.cs

```
public class DeleteHandler : DelegatingHandler
{
  protected override Task<HttpResponseMessage> SendAsync
(HttpRequestMessage request,
  CancellationToken cancellationToken)
  {
    ...
}
```

VideoAdminAttributes.cs

```
public class VideoAdminAttribute : Attribute
{
   private IEnumerable<string> Admins()
   {
     ...
}
```

AdminVerifierFactory.cs

```
public class AdminVerifierFactory : DefaultControllerFactory
{
  public override IController CreateController(RequestContext requestContext,
  string controllerName)
  {
    return base.CreateController(requestContext, controllerName) as Controller;
  }
}
ImageConverter.cs
public class ImageConverter : MvcHandler
  {
    private void WriteImage(HttpResponse response, string format)
    {
        ...
  }
}
```

QUESTION 87

}

You need to ensure that developers can connect to a Windows Azure role by using RDP. What should you do?

- A. Export a certificate without a private key.
 - Upload the .cer file to the Management Certificates section on the Azure Management Portal.
- B. Export a certificate with a private key.
 Upload the .pfx file to the Management Certificates section on the Azure Management Portal.
- C. Export a certificate without a private key. Upload the .cer file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.
- D. Export a certificate with a private key.
 Upload the .pfx file to the Certificates section under the TranscodeWorkerRole hosted service on



the Azure Management Portal.

Answer: D

QUESTION 88

Customers download videos by using HTTP clients that support various content encodings. You need to configure caching on the DownloadVideo action to maximize performance. Which attribute should you add?

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

Answer: E

QUESTION 89

You need to ensure that all the MVC controllers are secure.

Which code segment should you use as the body for the CreateController method in AdminVerifierFactory.es?



```
C A. varcontroller = base.CreateController(requestContext, controllerName) asController;
      varattributes = controller.GetType().Attributes.ToString();
      if(!attributes.Contains("VideoAdminAttribute"))
        thrownewException("Not an Administrator");
      returncontroller;
C B. if (requestContext.HttpContext.Items["Administrator"] == null)
        thrownewException("Not an Administrator");
     returnbase.CreateController(requestContext, controllerName) asController;
C C. varcontroller = base.CreateController(requestContext, controllerName) asController;
     varhasFilter = controller.GetType().CustomAttributes.Any
       (x => x.AttributeType.Name == "VideoAdminAttribute");
      if (hasFilter == null)
        thrownewException("Not an Administrator");
     returncontroller:
C D. if(requestContext.RouteData.Values["Administrator"] == null)
        thrownewException ("Not an Administrator");
     returnbase.CreateController(requestContext, controllerName) asController;
```

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

Answer: C

QUESTION 90

You are creating a new authentication system that uses an HTTP header value. The existing authentication system must continue to operate normally.

You need to implement the custom authentication.

What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Create a class derived from ActionResult and check for a valid HTTP header value in the ExecuteResult method.
 - Change all actions to return this new class.
- B. Create an HttpHandler to check for a valid HTTP header value in the ProcessRequest method.
- C. Create an HttpModule and check for a valid HTTP header value in the AuthenticateRequest event.
- D. Create a class derived from AuthorizeAttribute and check for a valid HTTP header value in the AuthorizeCore method.
 - Change usages of the existing AuthorizeAttribute to use the new class.

Answer: CD



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