

Microsoft

Exam Questions 70-486

Developing ASP.NET MVC 4 Web Applications



NEW QUESTION 1

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.)

Work Area

```
<video width="320" height="240">
  <| |>
  <| |>
  <| |>
  <| | width="320" height="240">
    <| | name="movie" value="map.swf" />
    <| | src="map.swf" />
  </| |>
</video>
```

Work Area

<video width="320" height="240">

< [dropdown] >

source src="map.mp4" type="video/mp4"
source src="map.ogv" type="video/ogg"
source src="map.webm" type="video/webm"

< [dropdown] >

source src="map.mp4" type="video/mp4"
source src="map.ogv" type="video/ogg"
source src="map.webm" type="video/webm"

< [dropdown] >

source src="map.mp4" type="video/mp4"
source src="map.ogv" type="video/ogg"
source src="map.webm" type="video/webm"

< [dropdown] width="320" height="240">

embed
object
video
canvas

< [dropdown] name="movie" value="map.swf" />

object
param
option
embed

< [dropdown] src="map.swf" />

video
param
embed
source

</ [dropdown] >

embed
object
video
canvas

</video>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Work Area

```
<video width="320" height="240">
  <
    source src="map.mp4" type="video/mp4"
    source src="map.ogv" type="video/ogg"
    source src="map.webm" type="video/webm"
  <
  <
    source src="map.mp4" type="video/mp4"
    source src="map.ogv" type="video/ogg"
    source src="map.webm" type="video/webm"
  <
  <
    source src="map.mp4" type="video/mp4"
    source src="map.ogv" type="video/ogg"
    source src="map.webm" type="video/webm"
  <
    width="320" height="240">
    embed
    object
    video
    canvas
    <
      name="movie" value="map.swf" />
      object
      param
      option
      embed
    <
      src="map.swf" />
      video
      param
      embed
      source
    </
    embed
    object
    video
    canvas
  </video>
```

NEW QUESTION 2

DRAG DROP

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 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.)

| | |
|--|----------------------------|
| "RunnerLog.Providers.RunLogRoleProvider" | <roleManager |
| "System.Web.Providers.RunLogRoleProvider" | enabled="true" > |
| "System.Web.Providers.DefaultRoleProvider" | <providers> |
| defaultProvider="DefaultProvider" | <add name="RLRoleProvider" |
| defaultProvider="RLRoleProvider" | type= |
| | Application="RunnerLog"/> |
| | </providers> |
| | </roleManager> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 3

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

- ☐ 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();
}
```
- ☐ 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();
}
```
- ☐ 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();
}
```

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

Answer: B

NEW QUESTION 4

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

NEW QUESTION 5

DRAG DROP

You need to implement security according to the business requirements. You have the following code:

```
Target 1
public class RunLogController : Controller
{
    Target 2
    public ActionResult GetLog()
    ...
    public ActionResult InsertLog()
    ...
    Target 3
    public ActionResult DeleteLog(int id)
    Target 4
    public ActionResult EditLog(int id)
    ...
}
```

Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to modify RunLogController? To answer, drag the appropriate code segment to the correct targets. 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.

Code Segments

[Authorize(Roles = "Admin")]

[Authorize]

[Authorize(Users = "Admin")]

[AllowAnonymous]

[Authorize(Users = "*")]

Answer area

Target 1:

Code Segment

Target 2:

Code Segment

Target 3:

Code Segment

Target 4:

Code Segment

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

- Target 1: [Authorize]
- Target 2: [AllowAnonymous]
- Target 3: [Authorize(Roles = "Admin")]
- Target 4: [Authorize(Roles = "Admin")]

NEW QUESTION 6

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?

- ☐ A.

```
<h2>
    Insert Run Data
</h2>
<div>
    
</div>
```
- ☐ 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>
```
- ☐ 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: 400px; border: 1px solid black;">Example of a DIV element with a background image:</div>`

`<div style="background-image: url(../images/test-background.gif); height: 200px; width: 400px; border: 1px solid black;"> </div>`

Example of a DIV element with a background image:



Reference: DIV BACKGROUND-IMAGE in the STYLE element
<http://www.w3.org/WAI/UA/TS/html401/cp0301/0301-CSS-DIV-BACKGROUND-IMAGE.html>

NEW QUESTION 7

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 folder named Customer to the Views folde
- B. Then create a view inside this folder named Edit.aspx.
- C. Add a folder named EditCustomer to the Views folde
- D. Then create a view inside this folder named Catalog.aspx.
- E. Add a class named CustomerController to the Controllers folde
- F. Then add a method named Edit to the class.
- G. Add a class named Catalog to the Controllers folde
- H. Then add a method named EditCustomer to the class.

Answer: AC

Explanation:

From scenario: One of the business requirements, is that administrators must be able to edit information about existing customers.

NEW QUESTION 8

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(IndexOutOfRangeException),
        View = "CustomException",
    });
}
```
- ☐ B.

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(NullReferenceException),
        View = "CustomException",
    });
}
```
- ☐ C.

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(IndexOutOfRangeException),
        Handler = "CustomException",
    });
}
```
- ☐ D.

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(NullReferenceException),
        Handler = "CustomException",
    });
}
```

A. Option A

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

Answer: B

NEW QUESTION 9

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

NEW QUESTION 10

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 ke
- B. Upload the .cer file to the Management Certificates section on the Azure Management Portal.
- C. Export a certificate with a private ke
- D. Upload the .pfx file to the Management Certificates section on the Azure Management Portal.
- E. Export a certificate without a private ke
- F. Upload the .cer file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.
- G. Export a certificate with a private ke
- H. Upload the .pfx file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.

Answer: D

NEW QUESTION 10

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. `[OutputCache(Location = OutputCacheLocation.Downstream, VaryByParam = "videoId", VaryByCustom = "browser")]`
- ☐ B. `[OutputCache(Location = OutputCacheLocation.Any, VaryByCustom = "compressionMethod", VaryByContentEncoding = "all")]`
- ☐ C. `[OutputCache(Location = OutputCacheLocation.ServerAndClient, VaryByHeader = "Cache-Control")]`
- ☐ D. `[OutputCache(Location = OutputCacheLocation.Downstream, VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, *;q=0")]`
- ☐ E. `[OutputCache(Location = OutputCacheLocation.Any, VaryByParam = "videoId", VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, *;q=0")]`

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

Answer: E

NEW QUESTION 11

DRAG DROP

You need to ensure that the transcode.exe utility is installed before the worker role starts. You have the following markup:

```
<Startup>
  <Task commandLine="msiexec transcode.msi" taskType="Target 1">
    <Target 2>
      <Target 3 name="license" value="825534"></Target 4>
    </Target 5>
  </Task>
</Startup>
```

Which markup segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to implement the startup task? To answer, drag the appropriate markup segments to the correct targets. Each markup segments 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.

Markup Segments

Variable

Environment

foreground

background

simple

Answer Area

Target 1:

Markup Segment

Target 2:

Markup Segment

Target 3:

Markup Segment

Target 4:

Markup Segment

Target 5:

Markup Segment

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target 1: simple
Target 2:Environment
Target 3:Variable
Target 4: Variable
Target 5: Environment

NEW QUESTION 12

You need to secure the administrative functions for all MVC controllers.
Which code segment should you use as the body for the CreateController method in AdminVerifierFactory.cs?

A

```
if (requestContext.RouteData.Values["VideoAdmin"] == null)
    throw new Exception("VideoAdmin not found");

return base.CreateController(requestContext, controllerName) as
Controller;
```

B

```
var controller = base.CreateController
(requestContext, controllerName) as Controller;
var attributes = controller.GetType().Attributes.ToString();
if (!attributes.Contains("VideoAdminAttribute"))
    throw new Exception("VideoAdminAttribute not found");

return controller;
```

C

```
if (requestContext.HttpContext.Items["VideoAdmin"] == null)
    throw new Exception("VideoAdmin not found");

return base.CreateController(requestContext, controllerName) as
Controller;
```

D

```
var controller = base.CreatorController
(requestContext, controllerName) as Controller;
var hasFilter = controller.GetType().CustomAttributes.Any
(x => x.AttributeType.Name == "VideoAdminAttribute");
if (!hasFilter == null)
    throw new Exception("VideoAdminAttribute not found");

return controller;
```

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

Answer: D**Explanation:**

The MemberInfo.CustomAttributes property gets a collection that contains this member's custom attributes.

The Any() statement will either return null or a collection of matched custom attributes. If it matches one or more, the controller is secure, otherwise an exception is thrown.

From scenario: 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.

Incorrect:

Not B: controller.GetType().Attributes will not return custom attributes. References: [https://msdn.microsoft.com/en-us/library/system.reflection.memberinfo.customattributes\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.reflection.memberinfo.customattributes(v=vs.110).aspx)

Case Study: 4, Mixed Question s

NEW QUESTION 17

- (Exam Topic 4)

You deploy an ASP.NET MVC e-commerce application to a Microsoft Azure App Services Web App. Users report that the Orders page displays incorrect date and

time information. You are unable to reproduce the issue locally.
You need to configure Remote Debugging for the web application.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

In Solution Explorer, right-click the web application and select **Publish**.

In the Visual Studio Debugger menu, select **Attach Debugger** and then select **DFService.exe (Azure Development Fabric Service)**.

In Server Explorer, right-click the web application and select **Attach Debugger**.

Navigate to the Orders page.

<

>

Answer Area

>

<

&u2191

&u2193

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions

In Solution Explorer, right-click the web application and select **Publish**.

In the Visual Studio Debugger menu, select **Attach Debugger** and then select **DFService.exe (Azure Development Fabric Service)**.

In Server Explorer, right-click the web application and select **Attach Debugger**.

Navigate to the Orders page.

<

>

Answer Area

In Solution Explorer, right-click the web application and select **Publish**.

In Server Explorer, right-click the web application and select **Attach Debugger**.

Navigate to the Orders page.

>

<

&u2191

&u2193

NEW QUESTION 20

- (Exam Topic 4)
DRAG DROP

You are developing an ASP.NET MVC application. The application has a view that displays a list of orders in a multi-select list box. You need to enable users to select multiple orders and submit them for processing.
What should you do? (To answer, drag the appropriate words to the correct targets. Each word 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.)

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Words

- model binder
- model
- http context
- binding context
- http handler

Answer area

Create a custom Word
 and retrieve selected values from the Word .

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Words

- model binder
- model
- http context
- binding context
- http handler

Answer area

Create a custom model binder
 and retrieve selected values from the binding context .

NEW QUESTION 23

- (Exam Topic 4)

You are developing an ASP.NET MVC application in Visual Studio 2012. The application supports multiple cultures. The application contains three resource files in the Resources directory:

- MyDictionary.resx
- MyDictionary.es.resx
- MyDictionary.fr.resx

Each file contains a public resource named Title with localized translation.

The application is configured to set the culture based on the client browser settings.

The application contains a controller with the action defined in the following code segment. (Line numbers are included for reference only.)

```
01 public ActionResult GetProducts()  
02 {  
03  
04     List<ProductModel> products = DataBase.DBAccess.GetProducts();  
05     return View(products);  
06 }
```

You need to set ViewBag.Title to the localized title contained in the resource files. Which code segment should you add to the action at line 03?

- A. ViewBag.Title = HttpContext.GetGlobalResourceObuect("MyDictionary", "Title");
- B. ViewBag.Title = HttpContext.GetGlobalResourceObject("MyDictionary", "Title",new System.Globalization.CultureInfo("en"));
- C. ViewBag.Title = Resources.MyDictionary.Title;
- D. ViewBag.Title = HttpContext.GetLocalResourceObject("MyDictionary", "Title");

Answer: C

Explanation:

Only the Resources class is used.

NEW QUESTION 28

- (Exam Topic 4)

You are developing an ASP.NET MVC application that uses forms authentication. The application uses SQL queries that display customer order data.

Logs show there have been several malicious attacks against the servers.

You need to prevent all SQL injection attacks from malicious users against the application. How should you secure the queries?

- A. Check the input against patterns seen in the logs and other records.

- B. Escape single quotes and apostrophes on all string-based input parameters.
- C. Implement parameterization of all input strings.
- D. Filter out prohibited words in the input submitted by the users.

Answer: C

Explanation:

SQL Injection Prevention, Defense Option 1: Prepared Statements (Parameterized Queries)

The use of prepared statements (aka parameterized queries) is how all developers should first be taught how to write database queries. They are simple to write, and easier to understand than dynamic queries. Parameterized queries force the developer to first define all the SQL code, and then pass in each parameter to the query later. This coding style allows the database to distinguish between code and data, regardless of what user input is supplied.

Prepared statements ensure that an attacker is not able to change the intent of a query, even if SQL commands are inserted by an attacker.

NEW QUESTION 32

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

You need to authenticate clients by using NT LAN Manager (NTLM). Which authentication method should you implement?

- A. Basic
- B. Windows
- C. Forms
- D. Kerberos

Answer: B

Explanation:

References:

[http://msdn.microsoft.com/en-us/library/aa292114\(v=vs.71\).aspx](http://msdn.microsoft.com/en-us/library/aa292114(v=vs.71).aspx)

NEW QUESTION 35

- (Exam Topic 4)

You develop an application that receives data input from users and from Internet of Things (IoT) devices across the Internet.

You must secure all data connections.

You need to implement security by using classes from the System.Net namespace.

Which classes should you use? To answer, drag the appropriate classes to the correct scenarios. Each class 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.

NOTE: Each correct selection is worth one point.

| Classes | Answer area |
|-------------------|---|
| | ScenarioClass |
| SocketPermission | Serve a URI to the Internet. <div>Class</div> |
| SecretPermissions | Use WebRequest to manage permissions. <div>Class</div> |
| WebResponse | |
| WebPermission | Connect to a remote transport address. <div>Class</div> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: WebPermission

Box 2: WebPermission

Box 3: SocketPermission References:

<https://docs.microsoft.com/en-us/dotnet/framework/network-programming/web-and-socket-permissions>

NEW QUESTION 39

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application. The web application must meet the following requirements:

- ▶ Allow users to create a user name and password.
- ▶ Use cookie-based authentication.
- ▶ Store user credentials in a Microsoft SQL Server database. You need to implement ASP.NET Core Identity.

How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
public class Startup
{
    ...
    public void ConfigureServices(IServiceCollection services)
    {
        services.AddDbContext<ApplicationDbContext>(options =>
            options. [Box 1] (Configuration.GetConnectionString("DefaultConnection")));

        services. [Box 2] <ApplicationUser, IdentityRole>()
            .AddEntityFrameworkStores<ApplicationDbContext>()
            .AddDefaultTokenProviders();

        services. [Box 3] <IdentityOptions>(options =>
        {
            options.Password.RequireDigit = true;
            options.Lockout.DefaultLockoutTimeSpan = TimeSpan.FromMinutes(30);
        });

        services. [Box 4] (options =>
        {
            options.Cookie.HttpOnly = true;
            options.Cookie.Expiration = TimeSpan.FromDays(90);
            options.SlidingExpiration = true;
        });
    }

    public void Configure(IApplicationBuilder app, IHostingEnvironment env)
    {
        ...
        app. [Box 5] ();
        ...
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: UseSqlServer

Box 2: AddIdentity

Box 3: Configure

Box 4: ConfigureApplicationCookie

Box 5: UseAuthentication References:

<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/identity?view=aspnetcore-2.1&tabs=visual->

NEW QUESTION 40

- (Exam Topic 4)

HOTSPOT

You develop a new ASP.NET MVC web application. The application is hosted in an Azure Web Role. It includes the following code. Line numbers are included for reference only.

```
01 public override void OnStop()
02 {
03     Trace.TraceInformation("OnStop called within Web Role");
04     var performanceCounterCurrentRequests = new PerformanceCounter("ASP.NET", "Requests Current", "");
05     while (true)
06     {
07         var currentRequestsCount = performanceCounterCurrentRequests.NextValue();
08         Trace.TraceInformation("ASP.NET Requests Current = " + currentRequestsCount);
09         if (currentRequestsCount <= 0)
10         {
11             break;
12         }
13         System.Threading.Thread.Sleep(1000);
14     }
15 }
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

| Answer Area | Yes | No |
|---|-----------------------|-----------------------|
| When the web server is so busy that the pending requests cannot be completed in five minutes, the Web role is shut down. | <input type="radio"/> | <input type="radio"/> |
| When an unhandled exception occurs within the Web role, the Stopping event is raised, and the OnStop method code runs. | <input type="radio"/> | <input type="radio"/> |
| The Web role initiates a shutdown immediately following the return of the OnStop method code. | <input type="radio"/> | <input type="radio"/> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

| Answer Area | Yes | No |
|---|----------------------------------|----------------------------------|
| When the web server is so busy that the pending requests cannot be completed in five minutes, the Web role is shut down. | <input checked="" type="radio"/> | <input type="radio"/> |
| When an unhandled exception occurs within the Web role, the Stopping event is raised, and the OnStop method code runs. | <input type="radio"/> | <input checked="" type="radio"/> |
| The Web role initiates a shutdown immediately following the return of the OnStop method code. | <input checked="" type="radio"/> | <input type="radio"/> |

NEW QUESTION 41

- (Exam Topic 4)

You are developing an ASP.NET MVC application that processes payments for an online retailer. The retailer provides a .NET assembly that contains a class named RetailEventSource. That derives from the EventSource class. The RetailEventSource class has a method named SuspiciousTransaction that returns True when the order originates from a system that differs significantly from the system that usually performs orders. The RetailEventSource class also has a field named PaymentProcessed that stores the event identifier for a payment-processed event. Events must be written only when the event source is in a state where writing events is valid. You need to create a derived type that contains the method to raise a PaymentProcessed event.

Code segments

Equals(this)

SuspiciousTransaction()

IsEnabled()

Guid

Name

Answer Area

```
public class PaymentEvents : RetailEventSource
{
    public void LogPayment(string data)
    {
        if (
            Code segment
            Code segment != null)
        {
            WriteEvent(PaymentProcessed, FormattedData(data));
        }
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Code segments

Equals(this)

SuspiciousTransaction()

IsEnabled()

Guid

Name

Answer Area

```
public class PaymentEvents : RetailEventSource
{
    public void LogPayment(string data)
    {
        if (
            IsEnabled()
            Name != null)
        {
            WriteEvent(PaymentProcessed, FormattedData(data));
        }
    }
}
```

NEW QUESTION 45

- (Exam Topic 4)

You are developing an asynchronous HTTP module to write log messages. The logText variable stores the message that you must log. You need to implement the asynchronous HTTP module.

```
public class AsyncHttpModule : IHttpModule
{
    public void Init(HttpApplication context)
    {
        var taskAsyncHelper = new EventArgs();
        var taskAsyncHelper = new AsyncHttpModule();
        var taskAsyncHelper = AsyncHttpModule.LogMessage(null, null);
        var taskAsyncHelper = new EventHandlerTaskAsyncHelper(LogMessage);
    }
    private static async Task LogMessage(object sender, EventArgs e)
    {
        using (var streamWriter = new StreamWriter(@"Logs/RequestLogs.txt", true))
        {
            var logText = String.Format("The page requested is: {0}\nRequested at: {1}",
                ((HttpApplication)sender).Context.Request.RawUrl, DateTime.Now);

            streamWriter.Flush();
            streamWriter.WriteLine(logText);
            await streamWriter.FlushAsync();
            await streamWriter.WriteLineAsync(logText);
        }
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:


```
public class AsyncHttpModule : IHttpModule
{
    public void Init(HttpApplication context)
    {
        var taskAsyncHelper = new EventArgs();
        var taskAsyncHelper = new AsyncHttpModule();
        var taskAsyncHelper = AsyncHttpModule.LogMessage(null, null);
        var taskAsyncHelper = new EventHandlerTaskAsyncHelper(LogMessage);
    }
    private static async Task LogMessage(object sender, EventArgs e)
    {
        using (var streamWriter = new StreamWriter(@"./Logs/RequestLogs.txt", true))
        {
            var logText = String.Format("The page requested is: {0}\nRequested at: {1}",
                ((HttpApplication)sender).Context.Request.RawUrl, DateTime.Now);

            streamWriter.Flush();
            streamWriter.WriteLine(logText);
            await streamWriter.FlushAsync();
            await streamWriter.WriteLineAsync(logText);
        }
    }
}
```

NEW QUESTION 48

- (Exam Topic 4)
 DRAG DROP

You are developing an ASP.NET MVC application that takes customer orders. Orders are restricted to customers with IP addresses based in the United States. You need to implement a custom route handler. How should you implement the route handler? (To answer, drag the appropriate line of code to the correct location or locations. Each line of code 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.)

IHttpHandler

IRouteFactory

IRouteHandler

IHttpConstraint

RequestContext

ServerContext

```
public class USOnlyRouteHandler :
{
    public
    GetHttpHandler(
    requestContext)
    {
        return new USIPHandler(requestContext);
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
 References:
<http://msdn.microsoft.com/en-us/library/system.web.routing.iroutehandler.gethttphandler.aspx>

NEW QUESTION 53

- (Exam Topic 4)

You are developing an ASP.NET MVC application that will be deployed to servers on multiple networks. The application must be compatible with multiple browsers. You must track the page number that the user is viewing in search results.

You need to program the location for storing state information. Where should you persist state information?

- A. Session
- B. QueryString
- C. Application
- D. TempData

Answer: B

NEW QUESTION 56


- (Exam Topic 4)


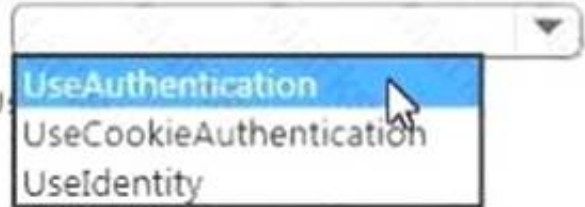
You are developing an ASP.NET Core Web API.

API methods must use JSON Web Tokens (JWT) to authenticate the method caller. You need to implement JWT authentication.

How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
public class Startup
{
    . . .
    public void ConfigureServices(IServiceCollection services)
    {
        services.  (JwtBearerDefaults.AuthenticationScheme)

        .  ("JwtBearer", jwtBearerOptions =>
        {
            jwtBearerOptions.TokenValidationParameters = new TokenValidationParameters
            {
                ValidateActor = true, ValidateAudience = true, ValidateLifetime = true,
                ValidateIssuerSigningKey = true, ValidIssuer = Configuration["Tokens:Issuer"],
                ValidAudience = Configuration["Tokens:Audience"], IssuerSigningKey =
                new SymmetricSecurityKey(Encoding.UTF8.GetBytes(Configuration["Tokens:SigningKey"]))
            };
        });
        services.AddMvc();
    }
    public void Configure(IApplicationBuilder app, IHostingEnvironment env)
    {
        . . .
        app.  ();
        app.U
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

```
public class Startup
{
    ...
    public void ConfigureServices(IServiceCollection services)
    {
        services.AddIdentity<User>() (JwtBearerDefaults.AuthenticationScheme)
        .AddAuthentication<JwtBearerAuthentication>()
        .AddIdentity<User>()
        .AddAuthorization<User>()

        .AddUAuth ("JwtBearer", jwtBearerOptions =>
        {
            jwtBearerOptions.TokenValidationParameters = new TokenValidationParameters
            {
                ValidateActor = true, ValidateAudience = true, ValidateLifetime = true,
                ValidateIssuerSigningKey = true, ValidIssuer = Configuration["Tokens:Issuer"],
                ValidAudience = Configuration["Tokens:Audience"], IssuerSigningKey =
                new SymmetricSecurityKey(Encoding.UTF8.GetBytes(Configuration["Tokens:SigningKey"]))
            };
        });
        services.AddMvc();
    }
    public void Configure(IApplicationBuilder app, IHostingEnvironment env)
    {
        ...
        app.UseAuthentication();
        app.UseCookieAuthentication();
        app.UseIdentity();
    }
}
```

NEW QUESTION 57

- (Exam Topic 4)

Your company uses Microsoft Azure DevTest Labs for testing applications.

The DevTest Labs environment must provide a preconfigured base image for a virtual machine that can be used for all development efforts. The virtual machine must be able to be reproduced in various environments.

You need to provision the virtual machine. What should you implement?

- A. custom images
- B. formulas
- C. Marketplace images
- D. artifacts

Answer: B

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/lab-services/devtest-lab-comparing-vm-base-image-types> <https://blogs.msdn.microsoft.com/devtestlab/2016/04/06/custom-images-or-formulas/>

NEW QUESTION 60

- (Exam Topic 4)

You are developing an ASP.NET MVC application that will be deployed on local Internet Information Services (IIS) servers and on an Azure Web Role.

You must log events for the application when it is deployed locally and on Azure. You must not deploy additional services.

You need to implement a logging solution.

Which two technologies can you use? Each correct answer presents a complete solution.

- A. event log
- B. trace
- C. console

D. named pipe

Answer: AB

NEW QUESTION 62

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET MVC application that authenticates a user by using claims-based authentication. The application must:

- Use Windows Identity Foundation 4.5.
- Support the Windows Azure Access Control Service.

You need to implement authentication. You have the following code:

```
using Microsoft.IdentityModel.Claims;
public class IdentityClaim
{
    private string _identityProvider;
    private string _identityValue;
    public const string ACSPProviderClaim =
        "http://schemas.microsoft.com/accesscontrolservice/...";
    public IdentityClaim(Target 1 identity)
    {
        if (identity != null)
        {
            foreach (var claim in identity.Claims)
            {
                if (claim.Target 2 == Target 3 .NameIdentifier)
                {
                    _identityValue = claim.Value;
                }
                if (claim.Target 4 == ACSPProviderClaim)
                {
                    _identityProvider = claim.Value;
                }
            }
        }
    }
}
```

Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to build the class constructor? To answer, drag the appropriate code segment to the correct targets in the answer area. 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.

| Code Segments | Answer area |
|----------------------------|-----------------------------------|
| <div>ClaimNames</div> | Target 1: <div>Code Segment</div> |
| <div>ClaimTypes</div> | Target 2: <div>Code Segment</div> |
| <div>IIdentityClaims</div> | Target 3: <div>Code Segment</div> |
| <div>IClaimsIdentity</div> | Target 4: <div>Code Segment</div> |
| <div>ClaimType</div> | |
| <div>ClaimName</div> | |

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Target 1: ClaimsIdentity

Target 2: ClaimType

Target 3: ClaimTypes

Target 4: ClaimType

Example: public class MyIdentityClaim

```
{
    private string _identityProvider; private string _identityValue ;
    public const string ACSPProviderClaim = "
    http://schemas.microsoft.com/accesscontrolservice/2010/07/claims/identityprovider";
    public MyIdentityClaim(IClaimsIdentity identity)
    {
        if (identity != null)
        {
            foreach (var claim in identity.Claims)
            {
                if (claim.ClaimType == ClaimTypes.NameIdentifier)
            }
        }
    }
}
```

```
{
    _identityValue = claim.Value;
}
if (claim.ClaimType == ACSPProviderClaim)
{
    _identityProvider = claim.Value;
}
}
}
}
```

NEW QUESTION 63

- (Exam Topic 4)

You are developing an Azure worker role. You enable crash dump collection for the role. When the role starts, an external application stops responding.

You need to download the crash dump to determine why the application stops responding.

From which two locations can you download the crash dump? Each correct answer presents a complete solution.

- A. Azure Blob storage
- B. the temp folder on the virtual machine that is running the role instance
- C. Azure file storage
- D. the DiagnosticStore local resource folder on the virtual machine that is running the role instance

Answer: AD

Explanation:

When you enable collection of crash dumps, the resulting data is written to the CrashDumps directory in the DiagnosticStore local resource that is automatically configured for your role.

When crash dump data is transferred to persistent storage, it is stored to the wad-crash-dumps Blob container. References:

NEW QUESTION 64

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application.

The application includes a C# type named InsuranceID that represents an insurance policy identifier for a customer. Each instance of InsuranceID is five alphanumeric characters followed by a dash and then four numbers (for example, abl2x-2323).

You need to ensure that Controller actions can accept values of type InsuranceID.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Implement the IBinderTypeProviderMetadata interface.
- B. Implement the IModelBinder interface.
- C. Use a TypeConverter object.
- D. Implement the IBindingSourceMetadata interface.
- E. Implement the ITypeComp interface.

Answer: AC

NEW QUESTION 67

- (Exam Topic 4)

You plan to deploy an ASP.NET Core MVC web application to a Docker container. The root folder for the web application folder has a Windows PowerShell script named publish.ps1. The script contains the following code:

```
param ([string] $buildConfig)

$env: BuildType = $buildConfig

dotnet publish -c $buildConfig

docker build -t app.
```

You need to ensure that the Docker container can be deployed.

How should you complete the code? To answer, drag the appropriate code segments to the correct 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.

NOTE: Each correct selection is worth one point.

| Code segments | Answer area |
|--|-------------|
| <div>aspnetcore</div> <div>nanoserver</div> <div>{env: BuildType}\$</div> <div>docker</div> <div>dotnet</div> <div>{BuildType}\$</div> <div>env: BuildType\$</div> | |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Example:

FROM microsoft/aspnetcore WORKDIR /app

COPY --from=builder /app . ENTRYPOINT ["dotnet", "myapp.dll"] Box 1: aspnetcore

From the DockerFile, you specify what base Docker image you'll be using (like using "FROM microsoft/dotnet:1.0.0-core").

Box 2: env:BuildType\$

Box 3: dotnet

NEW QUESTION 71

- (Exam Topic 4)

You are developing a controller for an ASP.NET MVC application that manages blog postings. The security protection built in to ASP.NET is preventing users from saving their HTML.

You need to enable users to edit and save their HTML while maintaining existing security protection measures.

Which code segment should you use?

A.

```
[ValidateInput(true)]
public class BlogController : Controller
{
    public ActionResult SavePosting(BlogPosting bp)
    {
        SaveBlogPosting(bp);
        return View("ManagePosting");
    }
}
```

B.

```
public class BlogController : Controller
{
    [ValidateInput(true)]
    public ActionResult SavePosting(BlogPosting bp)
    {
        SaveBlogPosting(bp);
        return View("ManagePosting");
    }
}
```

C.

```
public class BlogController : Controller
{
    [ValidateInput(false)]
    public ActionResult SavePosting(BlogPosting bp)
    {
        SaveBlogPosting(bp);
        return View("ManagePosting");
    }
}
```

D.

```
[ValidateInput(false)]
public class BlogController : Controller
{
    public ActionResult SavePosting(BlogPosting bp)
    {
        SaveBlogPosting(bp);
        return View("ManagePosting");
    }
}
```

A. Option A

B. Option B

- C. Option C
- D. Option D

Answer: C

Explanation:

Example: ValidateInput at Action Method Level

The user can submit Html for this action method successfully with the following code. public class HomeController : Controller

```
{
public ActionResult AddArticle()
{
return View();
}
[ValidateInput(false)] [HttpPost]
public ActionResult AddArticle(BlogModel blog)
{
if (ModelState.IsValid)
{
}
return View();
}
}
```

References:

<http://www.dotnettricks.com/learn/mvc/html-submission-by-validateinput-and-allowhtml-attribute-in-mvc4>

NEW QUESTION 74

- (Exam Topic 4)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You develop an ASP.NET web application that is self-hosted using Open Web Interface for .NET (OWIN) in a Microsoft Azure Worker role.

The web application throws exceptions. You need to resolve the exceptions.

Solution: Use standard HttpModule and HttpHandler types. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Note: Open Web Interface for .NET (OWIN) defines an abstraction between .NET web servers and web applications. OWIN decouples the web application from the server, which makes OWIN ideal for self-hosting a web application in your own process, outside of IIS—for example, inside an Azure worker role.

NEW QUESTION 75

- (Exam Topic 4)

You need to enable client-side validation for an ASP.NET MVC application.

Which three actions should you perform? Each correct answer presents part of the solution.

- A. Attach a custom validation attribute to the model properties that the view uses.
- B. Reference the jquery, jquery.validate and jquery.validate.unobtrusive script files in the view.
- C. Open the web.config file at the project root, and set the values of the ClientValidationEnabled and UnobtrusiveJavaScriptEnabled keys to True.
- D. For each form element, use the Validator.element() method to validate each item.
- E. Add data annotations to the model properties that the view uses.

Answer: BCE

Explanation:

B: The validation can be implemented using jQuery and jQuery validation plug-in (jquery.validate.min.js and jquery.validate.unobtrusive.min.js).

C: When you are developing an MVC application in Visual Studio 2012 then the client-side becomes enabled by default, but you can easily enable or disable the writing of the following app setting code snippet in the web.config file.

```
<configuration>
<appSettings>
<add key="ClientValidationEnabled" value="true" />
<add key="UnobtrusiveJavaScriptEnabled" value="true" />
</appSettings>
</configuration>
```

E: The jQuery validation plug-in takes advantage of the Data Annotation attributes defined in the model, which means that you need to do very little to start using it.

References:

NEW QUESTION 77

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

You need to authenticate clients by using an ASP.NET membership database. Which authentication method should you implement?

- A. Kerberos
- B. Windows
- C. Forms
- D. Basic

Answer: C

To use authentication through a membership database, you must first configure it for your site. The following are the basic steps you follow in order to configure membership: References: <https://msdn.microsoft.com/en-us/library/yh26yfzy.aspx>

Does the solution meet the goal?

- Converting the images to Scalable Vector Graphics (SVG) does not reduce the number of HTTP requests.

How should you complete the markup? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

visit - <https://www.surepassexam.com>

Answer Area

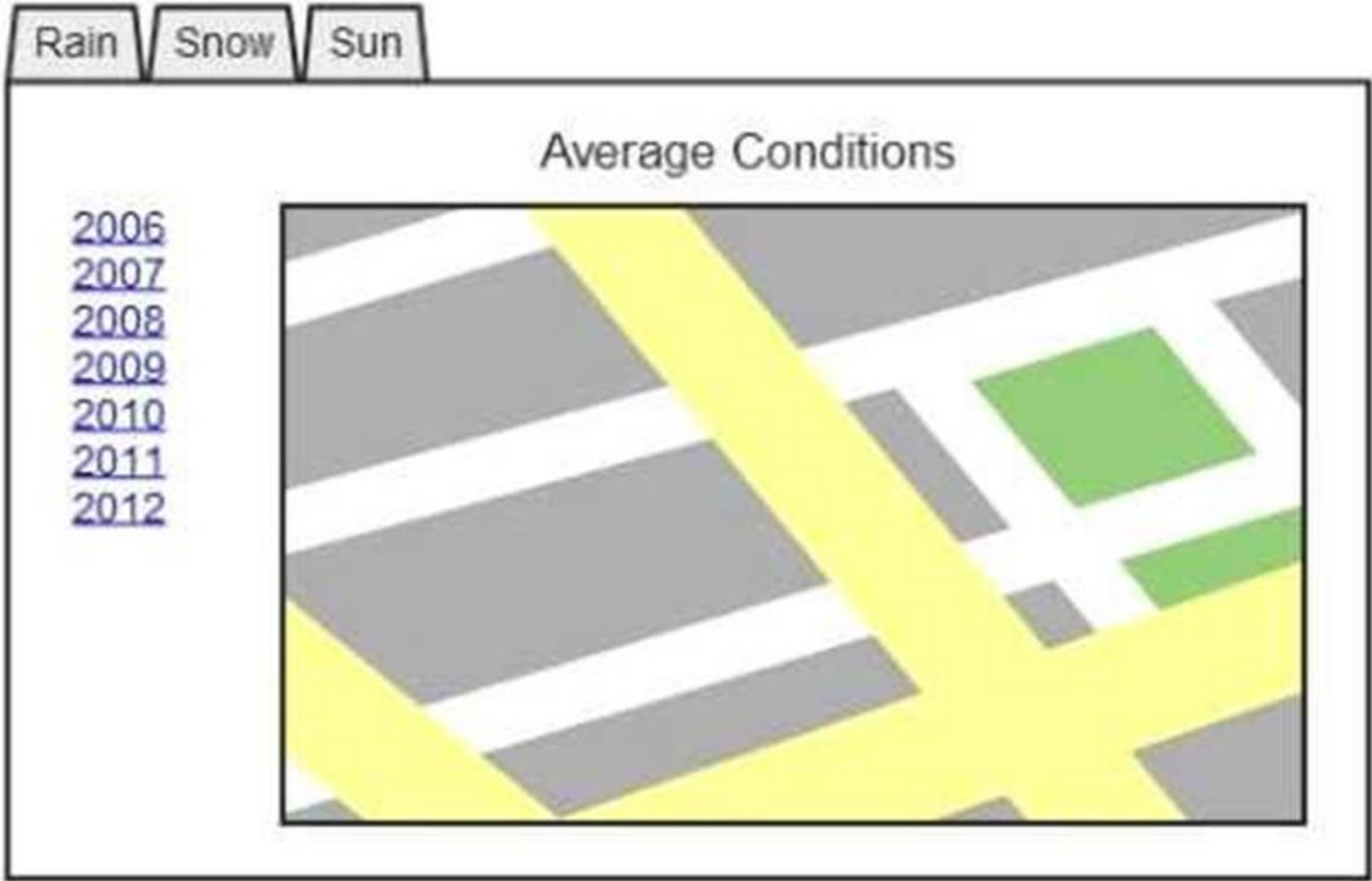
```

<!DOCTYPE html>
<html>
  <head>
    . . .
  </head>
  <body>
    . . .
    <script
      environment
    </script>
    <asp-fallback-test
      asp-fallback-src
      asp-fallback-test-property
      asp-fallback-test-value
    >
      = "window.Promise"
      amai.com/promise-polyfill@6.0.2" >
    </asp-fallback-test>
  </body>
</html>

```

NEW QUESTION 87

- (Exam Topic 4)
 You are implementing a website redesign of an existing website that provides historical weather condition maps.
 The current layout resembles the graphic in the exhibit. (Click the Exhibit button.)



Year selection is implemented as a set of links, which causes the page to reload when the user changes the year. The year selection HTML is contained in a div with an id of "year-selector".
 You need to modify the page so that the user can change the year without the page reloading. You also need to ensure that there is minimal change to the design of the page.
 Which code segment should you use?

- ☐ A `$("#year-selector").slider({
orientation: "vertical",
range: { 2006: 2012 },
step: 1,

});`
- ☐ B `$("#year-selector").datepicker({
yearRange: { 2000:2010 },
constrainInput: false,
stepMonths: 12

});`
- ☐ C `$("#year-selector").datepicker({
numberOfMonths: 6 * 12,
showButtonPanel: true,
constrainInput: true,
stepMonths: 3

});`
- ☐ D `$("#year-selector").slider({
orientation: "vertical",
min: 2006,
max: 2012,
step: 1,

});`

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

Answer: D

Explanation:

HTML5 slider contains min and max properties:

* min Minimum value of the range. Default minimum value is 0.

* max Maximum value of the range. Default maximum value is 100. Incorrect:

Not A: HTML5 slider contains "range" property, but it used for enabling and configuring range selection in slider, not for setting min and max possible values.

References:

<http://www.html5tutorial.info/html5-range.php>

NEW QUESTION 91

- (Exam Topic 4)

You are developing an application that uses ASP.NET Core Identity for authorization. The application must use an existing Microsoft Azure Table Storage instance to store user information. You create a custom UserStore class.

You need to register the class as a dependency.

Which two interfaces should you implement? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. IUserSecurityStampStore
B. IUserLoginStore
C. IQueryableUserStore
D. IUserStore
E. IUserPasswordStore

Answer: BD

Explanation:

D: Create a UserStore class that provides the methods for all data operations on the user. This class is equivalent to the UserStore class. In your UserStore class, implement IUserStore<TUser> and the optional interfaces required. You select which optional interfaces to implement based on the functionality provided in your app.

Interfaces to implement when customizing user store References:

<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/identity-custom-storageQQ-providers?view>

NEW QUESTION 96

- (Exam Topic 4)

You are developing an ASP.NET MVC application. The application is deployed in a web farm and is accessed by many users.

The application must handle web server failures gracefully. The servers in the farm must share the state information.

You need to persist the application state during the session. What should you implement?

- A. A state server
B. Cookieless sessions
C. A web garden on the web servers
D. An InProc session

Answer: A

Explanation:

ASP.NET session state service provides a somewhat slower service than the in-process variant as we need to make calls to a remote server. All session data is stored in memory so shutting down the state machine will wipe out all session data as well.

Incorrect:

Not D: The InProc option is particularly dangerous in a web farm environment. For example imagine one farm machine which stores the session state but not the other. Subsequent web requests from the same user may not read the correct session state.

References: <https://dotnetcodr.com/2013/07/01/web-farms-in-net-and-iis-part-5-session-state-management/>

NEW QUESTION 101

- (Exam Topic 4)

You are developing an ASP.NET MVC application. The application is deployed in a web farm and is accessed by many users.

The application must handle web server failures gracefully. The servers in the farm must share the short-term state information.

You need to persist the application state during the session. What should you implement?

- A. ASP.NET session state
- B. A local database
- C. A state server
- D. Profile properties

Answer: C

Explanation:

ASP.NET session state service provides a somewhat slower service than the in-process variant as we need to make calls to a remote server. All session data is stored in memory so shutting down the state machine will wipe out all session data as well.

References: <https://dotnetcodr.com/2013/07/01/web-farms-in-net-and-iis-part-5-session-state-management/>

NEW QUESTION 105

- (Exam Topic 4)

HOTSPOT

You are developing an ASP.NET MVC application. The layout page of the application references the jQuery library. You develop a view that uses the layout page.

The view includes the following markup:

```
<div id="newBooks"></div>
<div>
  <input type="button" id="addBookButton" name="addBook" value="Add Book" />
</div>
```

The application includes the following class:

```
public class BookController : Controller
{
    public ActionResult CreateNewBook()
    {
        var bookViewModel = new BookViewModel();
        return PartialView("~/Views/Shared/EditorTemplates/BookViewModel.cshtml", bookViewModel);
    }
}
```

When a user clicks the button, an AJAX call must retrieve the partial view and append it to the newBooks div element.

You need to implement the AJAX request.

How should you complete the relevant code? To answer, select the appropriate code segment from each list in the answer area.

Answer Area

```
<script language="javascript" type="text/javascript">
    $("#addBookButton").on('click', function () {
        $.ajax({
            dataType: 'html'
            data: 'newBooks'
            context: document.body
            url: '/Book/CreateNewBook'
        }).success(function (partialView) {
            $('#newBooks').html(partialView);
            $('#newBooks').text(partialView);
            $('#newBooks').html = partialView;
            $('#newBooks').append(partialView);
        });
    });
</script>
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Example:

```
$.ajax({
    url: this.href, cache: false,
    success: function (html) { $("#fixedRows").append(html); }
});
```

NEW QUESTION 109

- (Exam Topic 4)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You develop an ASP.NET Core MVC web application. You have a legacy business system that sends data to the web application by using Web API. The legacy business system uses proprietary data formats.

You need to handle the proprietary data format.

Solution: Add an instance of a custom formatter class to the InputFormatters collection in MVC. Does the solution meet the goal?

A. Yes

B. No

Answer: A

NEW QUESTION 113

- (Exam Topic 4)

You are developing an application. You use an instance of the ConfigurationBuilder class to retrieve user secrets, configuration strings, and other sensitive variables on your development device.

You add new features to the application. You need to retrieve application secrets.

What should you implement? To answer, drag the appropriate technologies to the correct configuration options. Each technology 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.

NOTE: Each correct selection is worth one point.

Technologies

Secret Manager tool

Microsoft Azure Key Vault

Database-level encryption

Environment variables

Answer area

| Configuration option | Technology |
|--|------------|
| Store secrets on a local development device. | |
| Set staging and production runtime parameters. | |
| Store secrets for production and staging environments. | |

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Box 1: Secret Manager tool Box 2: Environment variables

Box 3: Microsoft Azure Key Vault References:

<https://docs.microsoft.com/en-us/aspnet/core/security/app-secrets?view=aspnetcore-2.1&tabs=visual-studio> <https://www.humankode.com/asp-net-core/asp-net-core-configuration-best-practices-for-keeping-secrets-out-of->

NEW QUESTION 117

- (Exam Topic 4)

You need to ensure that URLs for log manipulation are mapped to the controller. You have the following code:

```
Target 1
name: "GetLog",
Target 2
defaults: new
{
    controller = "RunLog",
    action = "GetLog"
}
};
```

Which code segments should you include in Target 1 and Target 2 to map the URLs? To answer, drag the appropriate code segments to the correct targets. Each code segment may be used once, more than once, or not at all. You need to drag the split bar between panes or scroll to view content.

| Code Segments | | Answer Area |
|---|-----------|--------------|
| <code>routes.MapHttpRequest(</code> | Target 1: | Code Segment |
| <code>routes.MapRoute(</code> | Target 2: | Code Segment |
| <code>url: "RunLog/{action}",</code> | | |
| <code>url: "GetLog/{action}",</code> | | |
| <code>url: "GetLog/{action}/{id}",</code> | | |

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Target 1: routes.MapRoute(

The MapRoute method takes three parameters: routes, name, and URL. Target 2: url: "GetLog/{action}/{id}",

Examplecode: routes.MapRoute("Default", // Route name

"{controller}/{action}/{id}", // URL with parameters

new { controller = "Home", action = "Index", id = "" } // Parameter defaults

);

Incorrect:

Not routes.MapHttpRequest(:

The MapHttpRequest method takes three parameters: routes, name, and routetemplate, but we need an URL parameter, not a routeTemplate parameter.

References:

[https://msdn.microsoft.com/en-us/library/system.web.mvc.routecollectionextensions.maproute\(v=vs.118\).aspx](https://msdn.microsoft.com/en-us/library/system.web.mvc.routecollectionextensions.maproute(v=vs.118).aspx) <https://msdn.microsoft.com/en-us/library/cc668201.aspx>

NEW QUESTION 122

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET MVC application in Visual Studio. The application contains sensitive bank account data.

The application contains a helper class named SensitiveData.Helpers.CustomEncryptor.

```
public class CustomEncryptor
{
    public string Encrypt(string plaintext)
    {
        ...
    }
}
```

The application contains a controller named BankAccountController with two actions.

```
public class BankAccountController : Controller
{
    public ActionResult GetAccounts()
    {
        ...
    }

    public ActionResult EditAccount(string maskedAccountNum)
    {
        ...
    }
}
```

The application contains a model named BankAccount, which is defined in the following code segment.

```
public class BankAccount
{
    public string AccountNumber { get; set; }
    public string AccountName { get; set; }
    public double Balance { get; set; }
}
```

The application must not display AccountNumber in clear text in any URL. You need to build the view for the GetAccounts action.

You have the following code:

```
@model IEnumerable<SensitiveData.Models.GamerAccount>
@{SensitiveData.Helpers.CustomEncryptor custEncrypt =
    new SensitiveData.Helpers.CustomEncryptor();}
<h2>GetAccounts</h2>
<table>
    <tr>
        <th>Account Name</th>
        <th>Balance</th>
    </tr>
    @foreach (var item in Model)
    {
        <tr>
            <td>@Html.DisplayFor(modelItem => item.AccountName)</td>
            <td>@Html.DisplayFor(modelItem => item.Highscore)</td>
            <td>
                @Html.ActionLink("Edit", "EditAccount",
                    new {
                        Target 1 =
                        Target 2
                        . Target 3
                    })
            </td>
        </tr>
    }
</table>
```

Which code segments should you include in Target 1, Target 2 and Target 3 to build the view? To answer, drag the appropriate code segment to the correct targets. 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.

Code Segments

custEncrypt

maskedAccountNum

Html

Encrypt(item.AccountNumber)

Encode(item.AccountNumber)

Answer Area

Target 1:

Code Segment

Target 2:

Code Segment

Target 3:

Code Segment

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target1: maskedAccountNum Target2: custEncrypt
Target3: Encrypt(item.AccountNumber) SensitiveData.Helpers

NEW QUESTION 124

- (Exam Topic 4)

You are developing a Microsoft Azure ASP.NET Core web application named onlinestore. Users report bugs with the web application that only occur on development deployments. The bugs are in a third-party component. You need to gather a memory dump of the running application to provide to the component vendor. How should you construct the URI to gather the memory dump? To answer, drag the appropriate URI segments to the correct locations. Each URI segment may be used once, more than once, or mot at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.

URI segments

onlinestore scm

debug diag

Answer area

https://URI segment . URI segment .azurwebsites.net/

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

URI segments

| | |
|-------------|------|
| online\$ore | scm |
| debug | diag |

Answer area

https://online\$ore . scm .azurwebsites.net/

NEW QUESTION 127

- (Exam Topic 4)

HOTSPOT

You develop an ASP.NET MVC application. The application includes a feature that allows users to reset their passwords. The feature is enabled by a ForgotPassword controller method and a corresponding Razor view.

You need to prevent Cross-Site Request Forgery (CSRF) attacks.

How should you complete the relevant code? To answer, select the appropriate code segment from each list in the answer area.

Answer Area

AccountController.cs

```
[HttpPost]
[AllowAnonymous]
```

▼

[Authorize]
 [ValidateInput(true)]
 [ValidateAntiForgeryToken]
 [Authorize(Users="ValidOnly")]

```
public async Task<ActionResult> ForgotPassword(ForgotPasswordViewModel model)
{
    if (!ModelState.IsValid) return View(model);
    var user = await UserManager.FindByNameAsync(model.Email);
    if (user == null || !(await UserManager.IsEmailConfirmedAsync(user.Id)))
    {
        return View("ForgotPasswordConfirmation");
    }
    return View(model);
}
```

ForgotPassword.cshtml

```
@model AntiForgeryToken.Models.ForgotPasswordViewModel
@using (Html.BeginForm("ForgotPassword", "Account", FormMethod.Post, new { role = "form" }))
{
```

▼

@Html.Encode(this)
 @Html.AntiForgeryToken()
 @Html.AttributeEncode(this)
 @Html.Hidden("AntiForgeryToken")

```
@Html.ValidationSummary()
<div>
    @Html.LabelFor(m => m.Email)
    <div>@Html.TextBoxFor(m => m.Email)</div>
</div>
<div><input type="submit" value="Email Link" /></div>
}
@section Scripts {
    @Scripts.Render("~/bundles/jqueryval")
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target1: [ValidateAntiForgeryToken] Target2: @Html.AntoForgeryToken() Example:

* At the top of the action that we created to handle the posted form, the one with the [HttpPost] attribute added, we'll add another attribute named [ValidateAntiForgeryToken]. This makes the start of our action now look like the following:

[HttpPost] [ValidateAntiForgeryToken]


```
public ActionResult ChangeEmail(ChangeEmailModel model)
{
    string username = WebSecurity.CurrentUserName;
    *rest of function omitted*
    * we must add the unique token to the form to change the user's email when we display it. Update the form in the ChangeEmail.aspx view under
    /Account/ChangeForm:
    <% using(Html.BeginForm()) { %>
    <%: Html.AntiForgeryToken() %>
    <%: Html.TextBoxFor(t=>t.NewEmail) %>
    <input type="submit" value="Change Email" />
    <% } %>
```

NEW QUESTION 129

- (Exam Topic 4)

You are developing an ASP.NET MVC application by using Visual Studio 2012. The application throws and handles exceptions when it runs. You need to examine the state of the application when exceptions are thrown. What should you do?

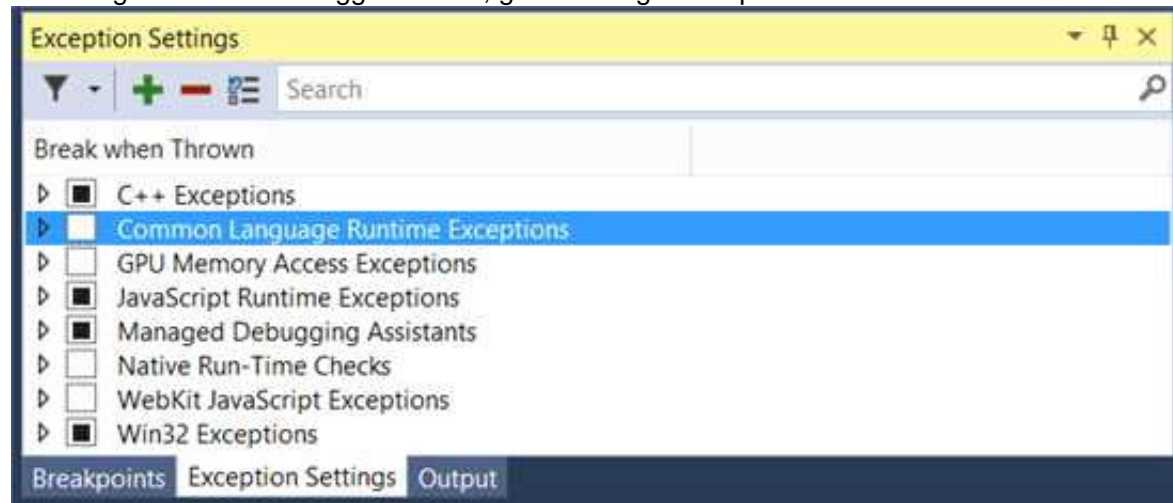
- A. From the Debug menu in Visual Studio 2012, select Exception
- B. Enable the Thrown check box for Common Language Runtime Exceptions.
- C. From the Debug menu in Visual Studio 2012, select Exception
- D. Disable the User-unhandled check box for Common Language Runtime Exceptions.
- E. Add the following code to the web.config file of the application. <customErrors mode="On" ><error statusCode="500" redirect="CustomErrors.html" /></customErrors>
- F. Add the following code to the web.config file of the application. <customErrors mode="On" ><error statusCode="404" redirect="CustomErrors.html" /></customErrors>

Answer: A

Explanation:

Configuring the debugger to break for first chance exceptions

To change when the debugger breaks, go to Debug->Exceptions...



When you first open this window you will see that there is a tree grid with one column and checkboxes.

* Break when Thrown. This includes a default list of exceptions known by the debugger, grouped by category. Note: The possible exceptions that could break from this list is determined by the runtime you are debugging.

For example, if you are using managed-only debugging then the debugger will never break for C++, Win32 Exceptions, etc. even if they are configured to break when thrown.

* Checkboxes. If you check the box for a category, then the debugger will break for all First Chance Exceptions while debugging. If you don't want to enable all First Chance Exceptions, you can find the specific exception types that you wish to configure by using the search box.

NEW QUESTION 131

- (Exam Topic 4)

You are developing an ASP.NET MVC application. The application uses a SQL Server database and a SQL Server login and password. You need to ensure that the password for the SQL Server login is not stored in plain text. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Encrypt the connection string by using aspnet_regiis.exe.
- B. Ensure that there is a valid machineKey element in the web.config file.
- C. Ensure that there is a valid encryptionKey element in the web.config file.
- D. Encrypt the connection string by using aspnet_wp.exe.

Answer: AB

NEW QUESTION 134

- (Exam Topic 4)

You are designing a distributed application.

The application must store a small amount of insecure global information that does not change frequently. You need to configure the application to meet the requirements.

Which server-side state management option should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Application state
- B. Session state
- C. Database support
- D. Profile properties

Answer: AC

NEW QUESTION 135

- (Exam Topic 4)

You are developing an ASP.NET MVC application to be used on the Internet. The environment does not use Active Directory.

Users must be able to log on to the application to maintain their personal preferences. You need to use the least amount of development effort to enable users to log on. What should you do?

- A. Enable Digest authentication.
- B. Enable Windows authentication.
- C. Enable Forms authentication.
- D. Generate server SSL certificates and install them in IIS.

Answer: C

Explanation:

Many Web applications require a way to restrict access to some resources (such as specific pages) so that those resources are accessible only to authenticated users. The default Web application project template for ASP.NET MVC provides a controller, data models, and views that you can use to add ASP.NET forms authentication to your application. The built-in functionality lets users register, log on and off, and change their password. For many applications, this functionality provides a sufficient level of user authentication.

Incorrect:

Not B: Windows authentication would require an Active Directory.

Windows authentication method works only if the following two conditions exist:

/ You set up your network to use the Kerberos authentication protocol that requires Active Directory.

/ You set up the computers and accounts on your network as trusted for delegation. References: [https://msdn.microsoft.com/en-us/library/ff398049\(VS.98\).aspx](https://msdn.microsoft.com/en-us/library/ff398049(VS.98).aspx)

NEW QUESTION 140

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

The application must allow users to enter JavaScript in a feedback text box only. You need to disable request validation.

What should you do?

- A. Apply and set the CausesClientSideValidation attribute on the text box to FALSE.
- B. Apply and set the ValidateInput attribute on the text box to FALSE.
- C. Use the HttpRequest.Unvalidated property to read the unvalidated form value.
- D. Use the HttpRequest.Form property to read the unvalidated form value.

Answer: C

Explanation:

The HttpRequest.Unvalidated property gets the HTTP request values without triggering request validation. Request validation checks for HTML markup and script that might indicate a potential cross-site scripting attack. By default, all values are checked using request validation and if any values contain markup or script, ASP.NET throws an HttpRequestValidationException exception. Use this method if you anticipate that the request will contain markup (for example, you are allowing users to post content that contains markup) and you want to get the raw value of a request.

References: <https://msdn.microsoft.com/en-us/library/system.web.httprequest.unvalidated.aspx>

NEW QUESTION 141

- (Exam Topic 4)

You are developing an ASP.NET MVC web application in Visual Studio 2012. The application requires several thousand content files. All content is hosted on the same IIS instance as the application.

You detect performance issues when the application starts. You need to resolve the performance issues.

What should you do?

- A. Implement HTTP caching in the ASP.NET MVC controllers.
- B. Combine the content files by using ASP.NET MVC bundling.
- C. Install a second IIS instance.
- D. Move the content to a Windows Azure CDN.

Answer: B

Explanation:

Bundling is a new feature in ASP.NET 4.5 that makes it easy to combine or bundle multiple files into a single file. You can create CSS, JavaScript and other bundles. Fewer files means fewer HTTP requests and that can improve first page load performance.

References: <https://www.asp.net/mvc/overview/performance/bundling-and-minification>

NEW QUESTION 145

- (Exam Topic 4)

You are designing an enterprise-level Windows Communication Foundation (WCF) application. User accounts will migrate from the existing system. The new system must be able to scale to accommodate the increasing load.

The new servers are experiencing significant stress under load of large-scale role changes. You need to ensure that the application can handle the stress.

Which authorizations should you redesign? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Role-based approach
- B. Identity-based approach
- C. Resource-based trusted subsystem model
- D. Resource-based impersonation/delegation model

Answer: AC

NEW QUESTION 147

- (Exam Topic 4)

You develop an ASP.NET MVC application. You are creating a new layout page by using the Razor view engine.

The layout page has the following requirements:

- Render the content of a section named scripts at the bottom of the layout page.
- Render the content of a section named featured just above the body of the page.
- Render a StyleBundle named ~/Content/css.

You need to implement the layout page.

How should you complete the relevant Razor markup? To answer, select the appropriate Razor markup from each list in the answer area.

```
<!DOCTYPE html>
<html>
  <head>
    <meta name="viewport" content="width=device-width" />
    <title>@ViewBag.Title</title>
```

```
@Html.Value("~/Content/css")
@Styles.Render("~/Content/css")
@Script.Render("~/Content/css")
```

```
</head>
<body>
  <header><div>Welcome</div></header>
  <div>
```

```
@Styles.Render("featured")
@Script.Render("featured")
@RenderPage("featured", true)
@RenderSection("featured", true)
```

```
@RenderBody()
<hr />
<footer><p>&copy; @DateTime.Now.Year</p></footer>
</div>
@Scripts.Render("~/bundles/jquery")
@Scripts.Render("~/bundles/bootstrap")
```

```
@Html.Value("~/scripts")
@Scripts.Render("scripts")
@RenderPage("scripts", false)
@RenderSection("scripts", false)
```

```
</body>
</html>
```

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Box 1: @Styles.Render("~/Content/css")

- Render a StyleBundle named ~/Content/css.

@Styles.Render("~/Content/css") is calling the files included in that particular bundle which is declared inside the BundleConfig class in the App_Start folder.

Box 2: @RenderSection("featured", true)

- Render the content of a section named featured just above the body of the page. RenderSection renders only a part child view that is wrapped under named section.

RenderSection() method includes boolean parameter "required" which makes the section optional or mandatory. If required parameter is true then the child view must contain the section.

Box 3: @RenderSection("scripts", false)

- Render the content of a section named scripts at the bottom of the layout page. References:

<http://stackoverflow.com/questions/12028401/styles-render-in-mvc4> <http://www.tutorialsteacher.com/articles/difference-between-renderbody-and-rendersection-mvc>

NEW QUESTION 152

- (Exam Topic 4)

You are developing an ASP.NET MVC application. The application includes the following HomeController class. Line number are included references only.

```

01 [HandleError]
02 public class HomeController : Controller
03 {
04     public ActionResult Index()
05     {
06         return View();
07     }
08     public ActionResult About()
09     {
10         return View();
11     }
12     public ActionResult Contact()
13     {
14         return View();
15     }
16 }

```

During testing, all errors display an ASP.NET error page instead of the expected error view.

- A. Replace line 01 with the following code segment: [HandleError(View="Error")]
- B. in the web.config file, set the value of the customErrors property to On.
- C. Replace line 01 with the following code: [HandleError(ExceptionType=typeof(SystemException))]
- D. Create a custom error page named Error.asp
- E. Save the file in the Views\Shared folder for the project.

Answer: D

NEW QUESTION 155

- (Exam Topic 4)

You are developing a .NET Core library that will be used by multiple applications. The library contains ASP.NET Core middleware named EnsureSecurityMiddleware.

EnsureSecurityMiddleware must always run prior to other middleware. You need to configure the middleware.

How should you complete the code? To answer, drag the appropriate code segments to the correct 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.

NOTE: Each correct selection is worth one pint.

Code segments

- IStartupFilter
- IMiddlewareFacto
- IMiddleware
- IApplicationBuilder
- IApplicationLife
- IHostingStartup

Answer area

```

{
    b.UseMiddleware<EnsureSecurityMiddleware>();
};
}
}

public class EnsureSecurity : code segment
{
    public Action<code segment> Configure(Action<code segment> next)
    {
        return b =>
        {

```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Code segments

- IStartupFilter
- IMiddlewareFacto
- IMiddleware
- IApplicationBuilder
- IApplicationLife
- IHostingStartup

Answer area

```
{
    b.UseMiddleware<EnsureSecurityMiddleware>();
};
}

public class EnsureSecurity : IMiddleware
{
    public Action<IMiddlewareFacto> Configure(Action<IStartupFilter> next)
    {
        return b =>
    {
```

NEW QUESTION 158

- (Exam Topic 4)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are developing an ASP.NET Core MVC web application.

The application must be exposed to external users over ports 80 and 443 and must meet the following requirements:

- Handle more than 1024 simultaneous connections.
- Support Windows authentication.
- Support HTTP/2 over TLS.
- Include response caching.
- Protect against denial-of-service attacks.

You need to deploy the application to an on-premises web server. Solution: You deploy the application to a standalone Kestrel server. Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

NEW QUESTION 162

- (Exam Topic 4)

You are developing an ASP.NET MVC web application for viewing a list of contacts. The application is designed for devices that support changes in orientation, such as tablets and smartphones. The application displays a grid of contact tiles in portrait mode.

When the orientation changes to landscape, each tile in the grid expands to include each contact's details. The HTML that creates the tiled interface resembles the following markup.

```
<ul class="contacts">
  <li>
    
    <div>Details</div>
  </li>
</ul>
```

The CSS used to style the tiles in landscape mode is as follows.

```
ul.contacts > li {
    width: 150px;
}

ul.contacts > li > div {
    display: block;
}
```

If this CSS is omitted, the existing CSS displays the tiles in portrait mode.

You need to update the landscape-mode CSS to apply only to screens with a width greater than or equal to 500 pixels.

Which code segment should you use?

- A. @media screen and (width >= 500px) {...}
- B. @media screen and (min-width: 500px) {...}
- C. @media screen(min-width: 500px, max-width: 1000px) {...}
- D. @media resolution(min-width: 500px) {...}

Answer: B

Explanation:

<http://www.javascriptkit.com/dhtmltutors/cssmediaqueries.shtml>

NEW QUESTION 163

- (Exam Topic 4)

HOTSPOT

You are developing an ASP.NET MVC application that has pages for users who browse the site with Windows Phone 7.

The pages for Windows Phone 7 include the following files:

- `_Layout.WP7.cshtml`
- `Index.WP7.cshtml`

You need to update the application so that it renders the customized files correctly to Windows Phone 7 users. You have the following code:

```
protected void Application_Start()
{
    DisplayModeProvider.Instance.Modes.Insert(0, new
    Target 1

    {
        ContextCondition = (context =>
            context.GetOverriddenUserAgent().IndexOf
            Target 2
            Target 3 ) >= 0)

    });

    AreaRegistration.RegisterAllAreas();
}
```

How should you update the `Application_Start` method? (To answer, select the appropriate option from the drop-down list in the answer area.)

Work Area

```
protected void Application_Start()
{
    DisplayModeProvider.Instance.Modes.Insert(0, new
    [ ]
    {
        ContextCondition = (context =>
            context.GetOverriddenUserAgent().IndexOf
            [ ]
            [ ] ) >= 0)

    });

    AreaRegistration.RegisterAllAreas();
}
```


Work Area

```
protected void Application_Start()
{
    DisplayModeProvider.Instance.Modes.Insert(0, new
        [v]
        DefaultDisplayMode("WP7")
        ("Windows Phone OS",
        StringComparison.OrdinalIgnoreCase
        DefaultDisplayMode("Mobile")
        ("Mobile",
        AreaRegistration.RegisterAllDevices();
    {
        ContextCondition = (context =>
            context.GetOverriddenUserAgent().IndexOf
                [v]
                DefaultDisplayMode("WP7")
                ("Windows Phone OS",
                StringComparison.OrdinalIgnoreCase
                DefaultDisplayMode("Mobile")
                ("Mobile",
                AreaRegistration.RegisterAllDevices();
                [v] ) >= 0)
                DefaultDisplayMode("WP7")
                ("Windows Phone OS",
                StringComparison.OrdinalIgnoreCase
                DefaultDisplayMode("Mobile")
                ("Mobile",
                AreaRegistration.RegisterAllDevices();
    });
    AreaRegistration.RegisterAllAreas();
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Work Area

```
protected void Application_Start()
{
    DisplayModeProvider.Instance.Modes.Insert(0, new
    {
        DefaultDisplayMode("WP7")
        ("Windows Phone OS",
        StringComparison.OrdinalIgnoreCase
        DefaultDisplayMode("Mobile")
        ("Mobile",
        AreaRegistration.RegisterAllDevices();
    }

    ContextCondition = (context =>
        context.GetOverriddenUserAgent().IndexOf

    {
        DefaultDisplayMode("WP7")
        ("Windows Phone OS",
        StringComparison.OrdinalIgnoreCase
        DefaultDisplayMode("Mobile")
        ("Mobile",
        AreaRegistration.RegisterAllDevices();
    }

    {
        DefaultDisplayMode("WP7")
        ("Windows Phone OS",
        StringComparison.OrdinalIgnoreCase
        DefaultDisplayMode("Mobile")
        ("Mobile",
        AreaRegistration.RegisterAllDevices();
    }

    }));

    AreaRegistration.RegisterAllAreas();
}
```

NEW QUESTION 168

- (Exam Topic 4)

You are developing an ASP.NET MVC application that enables you to edit and save a contact. The application must not save on an HTTP GET request.

You need to implement the controller.

Which two possible code segments should you use? Each correct answer presents a complete solution.

A

```
public ActionResult EditContact(int id, Contact c)
{
    if (this.HttpContext.Request.RequestType == "GET")
    {
        c = RetrieveContact(id);
    }
    if (this.HttpContext.Request.RequestType == "POST")
    {
        SaveContact(c);
    }
    return View(c);
}
```

B

```
[HttpGet]
public ActionResult EditContact(int id)
{
    var c = RetrieveContact(id);
    return View(c);
}

[HttpPost]
public ActionResult EditContact(int id, Contact c)
{
    SaveContact(c);
    return View(c);
}
```

C

```
public ActionResult EditContact(FormCollection values)
{
    var c = new Contact()
    {
        FirstName = values[''FirstName''],
        LastName = values[''LastName'']
    },
    SaveContact(c);
    return View(c);
}
```


D

```
public ActionResult EditContact(int id, Contact c)
{
    if (this.HttpContext.Request["ActionName"] == "GET")
    {
        c = RetrieveContact(id);
    }
    if (this.HttpContext.Request["ActionName"] == "POST")
    {
        SaveContact(c);
    }
    return View(c);
}
```

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

Answer: AB**Explanation:**

A: We retrieve the GET and POST methods through this.HttpContext.Request.RequestType.

B: This is the default MVC implementation of having separate methods for GET and POST via function overloading.

Incorrect:

Not D: We retrieve the GET and POST methods through this.HttpContext.Request.RequestType, not through this.HttpContext.Request["ActionName"].

NEW QUESTION 173

- (Exam Topic 4)

You are designing a data-oriented application that features a variety of storage schemas. The application object model must be mapped to the various storage schemas.

You need to enable developers to manipulate the data.

Which ADO.NET data access strategy should you use? (Each correct answer presents a complete solution.

Choose all that apply.)

- A. LINQ to SQL
- B. Entity Framework
- C. DataAdapter
- D. DataReader

Answer: ABC**NEW QUESTION 174**

.....

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