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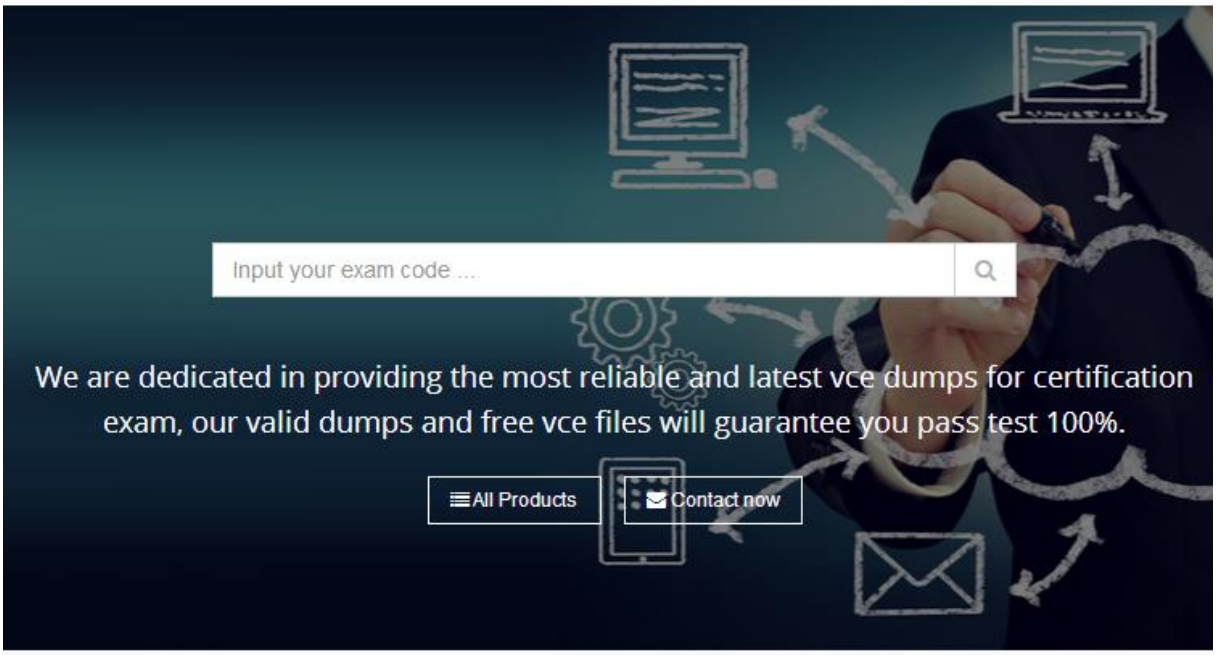

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Exam : **070-486**

Title : Developing ASP.NET MVC 4 Web Applications

Vendor : Microsoft

Version : DEMO

NO.1 You are developing an ASP.NET MVC application that will be hosted on Microsoft Azure. The application includes the StackExchange.Redis client package. A variable named CacheConnectionConfiguration stores the cache endpoint URL and the password to connect to the cache.
The application must store a user's color selection by using the Azure Redis cache. The cached value must expire after 90 minutes. You need to cache the user's color selection.
How should you complete the relevant code? To answer, choose the appropriate code segment from each list in the answer area.

Answer Area

```
private static void CacheColorSelection(string colorSelection)
{
  var connection = ConnectionMultiplexer.Connect(CacheConnectionConfiguration);
    [ ▼ ]
    var cache = connection.Configure();
    var cache = connection.GetStatus();
    var cache = connection.GetDatabase();
    var cache = connection.GetServer(CacheConnectionConfiguration);

    [ ▼ ]
    cache StringSet(colorSelection, "color");
    cache StringSet("color", colorSelection);
    cache StringSet("color", colorSelection, TimeSpan.FromMinutes(90));
    cache StringSet("color", colorSelection, TimeSpan.FromSeconds(90));
}
```

Answer:

Answer Area

```
private static void CacheColorSelection(string colorSelection)
{
  var connection = ConnectionMultiplexer.Connect(CacheConnectionConfiguration);
    [ ▼ ]
    var cache = connection.Configure();
    var cache = connection.GetStatus();
    var cache = connection.GetDatabase();
    var cache = connection.GetServer(CacheConnectionConfiguration);

    [ ▼ ]
    cache StringSet(colorSelection, "color");
    cache StringSet("color", colorSelection);
    cache StringSet("color", colorSelection, TimeSpan.FromMinutes(90));
    cache StringSet("color", colorSelection, TimeSpan.FromSeconds(90));
}
```

Explanation:
Box 1: var cache = connection.GetDatabase():
Once the connection is established, return a reference to the redis cache database by calling the ConnectionMultiplexer.GetDatabase method.
Box 2: cache StringSet("color", colorSelection,TimeSpan.FromMinutes(90)); The TimeSpanFromMinutes method returns a TimeSpan that represents a specified number of minutes, where the specification is accurate to the nearest millisecond.

Example: The following code snippet shows how to set an expiration time of 90 minutes on a key.
// Add a key with an expiration time of 90 minutes
await cache.StringSetAsync("data:key1", 99, TimeSpan.FromMinutes(90));
References: https://docs.microsoft.com/en-us/azure/redis-cache/cache-dotnet-how-to-use-azure-redis-cache
https://msdn.microsoft.com/en-us/library/system.timespan.fromminutes(v=vs.110).aspx

NO.2 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?

A.
```
varcontroller = base.CreateController(requestContext, controllerName) asController;
varattributes = controller.GetType().Attributes.ToString();
if(!attributes.Contains("VideoAdminAttribute"))
  thrownewException("Not an Administrator");
returncontroller;
```

B.
```
if(requestContext.HttpContext.Items["Administrator"] == null)
  thrownewException("Not an Administrator");
returnbase.CreateController(requestContext, controllerName) asController;
```

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;
```

D.
```
if(requestContext.RouteData.Values["Administrator"] == null)
  thrownewException("Not an Administrator");
returnbase.CreateController(requestContext, controllerName) asController;
```

A. Option D
B. Option A
C. Option C
D. Option B
Answer: C

NO.3 You are designing an MVC web application.
The view must be as simple as possible for designers who do not have a technical background.
You need to combine two existing models to meet the requirement.
Which component of the MVC framework should you use?
A. View Model
B. Controller

C. View
D. Model
Answer: A

NO.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.

Answer:

NO.5 You are developing an ASP.NET MVC application in Visual Studio 2012. The application supports multiple cultures.
To set the culture, the application must use the AcceptLanguage header field value sent by the client browser.
You need to ensure that the application can set the culture.
You have the following markup in the web.config file:

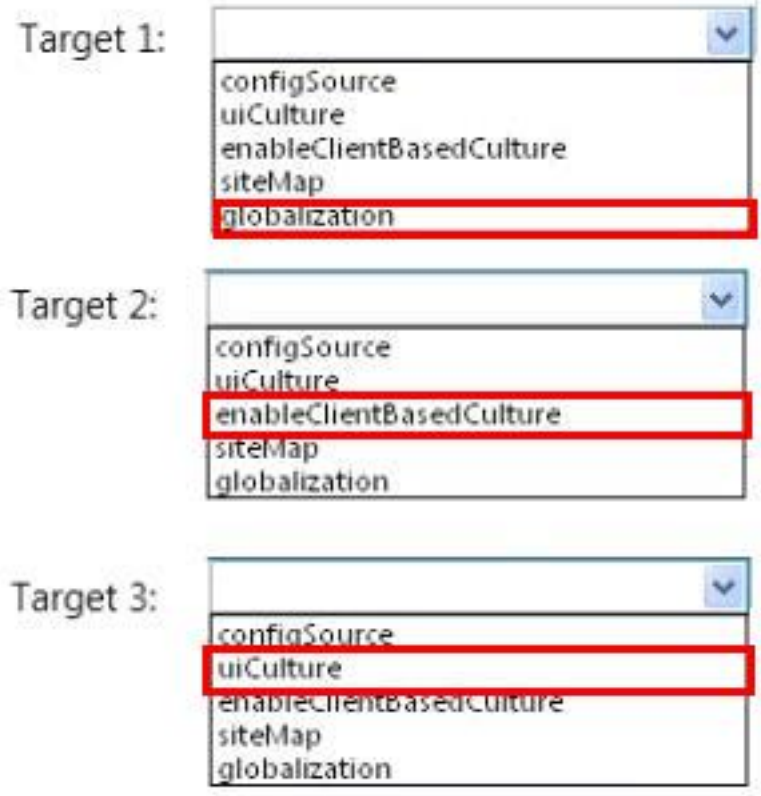
```
<system.web>
  <Target 1
  Target 2 ="true"
  Target 3 ="auto"
  culture ="auto"
/>
...
```

Which markup segments should you include in Target 1, Target 2 and Target 3 to complete the markup? (To answer, select the appropriate options in the answer area.)

Answer Area

Answer:

Answer Area



NO.6 You need to ensure that new customers enter a valid email address.

Which code should you use? (Each correct answer presents part of the solution. Choose all that apply.)

A.
```
[RegularExpression (emailPattern, ErrorMessage = EmailErrorMessage)]
[DataType(DataType.EmailAddress)]
public string Email { get; set; }
```

B.
```
[RegularExpression(EmailRegex, ErrorMessage = EmailErrorMessage,
 ErrorMessageResourceType = DataType.EmailAddress)]
[ComplexType]
public string Email { get; set; }
```

C.
```
<%: Html.Raw(m => m.Email) %>
```

D.
```
<%: Html.TextBoxFor(m => m.Email) %>
```

A. Option D
B. Option B
C. Option A
D. Option C
Answer: A,C

NO.7 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.
How should you build the class constructor? (To answer, select the appropriate option from the drop-down list in the answer area.)

Work Area

```
using Microsoft.IdentityModel.Claims;

public class IdentityClaim
{
  private string _identityProvider;
  private string _identityValue;
  public const string ACSProviderClaim =
   "http://schemas.microsoft.com/accesscontrolservice/...";

  public IdentityClaim( [ ] identity)
  {
    if (identity != null)
    {
      foreach (var claim in identity.Claims)
      {
        if (claim.[ ] == [ ].NameIdentifier)
        {
          _identityValue = claim.Value;
        }
        if (claim.[ ] == ACSProviderClaim)
        {
          _identityProvider = claim.Value;
        }
      }
    }
  }
}
```

Work Area

```
using Microsoft.IdentityModel.Claims;

public class IdentityClaim
{
  private string _identityProvider;
  private string _identityValue;
  public const string ACSProviderClaim =
   "http://schemas.microsoft.com/accesscontrolservice/...";

  public IdentityClaim( [ClaimNames / ClaimTypes / IIdentityClaims / IClaimsIdentity / ClaimType / ClaimName] identity)
  {
    if (identity != null)
    {
      foreach (var claim in identity.Claims)
      {
        if (claim.[ClaimNames / ClaimTypes / IIdentityClaims / IClaimsIdentity / ClaimType / ClaimName] == [ClaimNames / ClaimTypes / IIdentityClaims / IClaimsIdentity / ClaimType / ClaimName].NameIdentifier)
        {
          _identityValue = claim.Value;
        }
        if (claim.[ClaimNames / ClaimTypes / IIdentityClaims / IClaimsIdentity / ClaimType / ClaimName] == ACSProviderClaim)
        {
          _identityProvider = claim.Value;
        }
      }
    }
  }
}
```

Answer:

Work Area

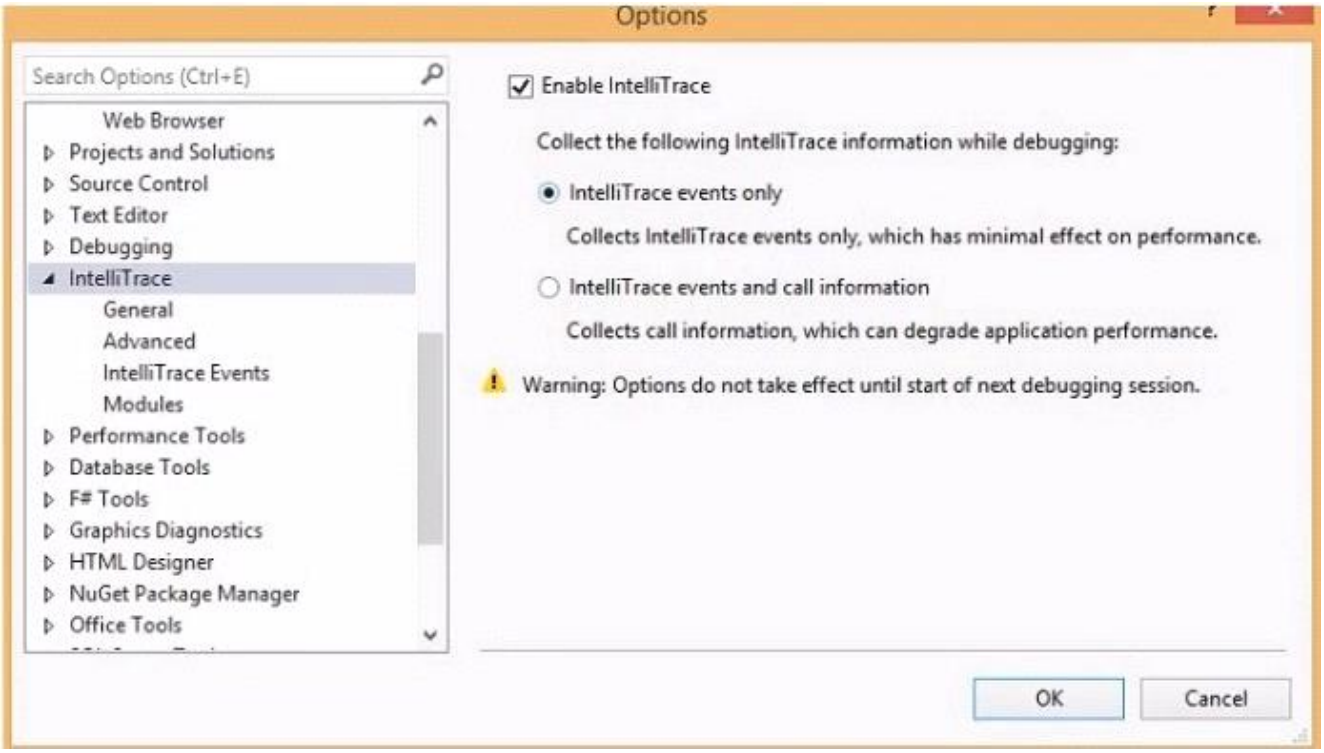
```
using Microsoft.IdentityModel.Claims;

public class IdentityClaim
{
  private string _identityProvider;
  private string _identityValue;
  public const string ACSProviderClaim =
   "http://schemas.microsoft.com/accesscontrolservice/...";

  public IdentityClaim( [ClaimNames / ClaimTypes / IIdentityClaims / IClaimsIdentity / ClaimType / ClaimName] identity)
  {
    if (identity != null)
    {
      foreach (var claim in identity.Claims)
      {
        if (claim.[ClaimNames / ClaimTypes / IIdentityClaims / IClaimsIdentity / ClaimType / ClaimName] == [ClaimNames / ClaimTypes / IIdentityClaims / IClaimsIdentity / ClaimType / ClaimName].NameIdentifier)
        {
          _identityValue = claim.Value;
        }
        if (claim.[ClaimNames / ClaimTypes / IIdentityClaims / IClaimsIdentity / ClaimType / ClaimName] == ACSProviderClaim)
        {
          _identityProvider = claim.Value;
        }
      }
    }
  }
}
```

Explanation:
http://garvincasimir.wordpress.com/2012/04/05/tutorial-mvc-application-using-azure-acs-and-forms-authentication-part-1/

NO.8 You are developing an ASP.NET MVC 4 application. You are using IntelliTrace to debug the application. You configure IntelliTrace as shown in the screenshot below.



To answer, make the appropriate selections in the answer area.

Answer Area

Which data will be available during debugging?

- state for application variables only
- state for application variables and ADO.NET and ASP.NET events
- state for application variables and every method entry and exit

Which debugging features will be disabled?

- Edit and Continue
- Tracepoints and breakpoints
- Tracing for every method entry and exit

Answer:

Answer Area

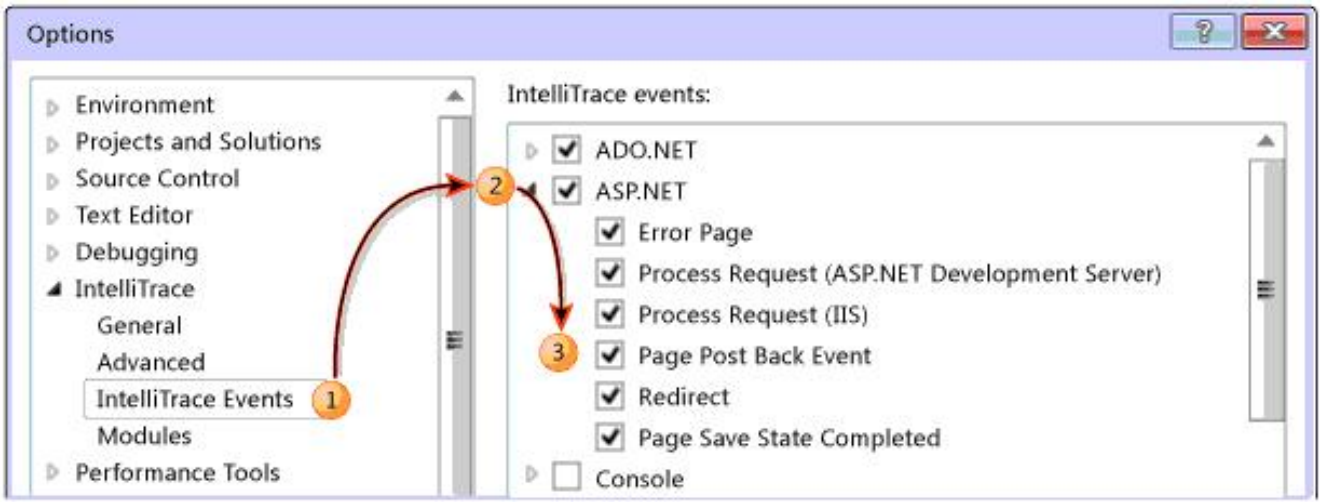
Which data will be available during debugging?

- state for application variables only
- **state for application variables and ADO.NET and ASP.NET events**
- state for application variables and every method entry and exit

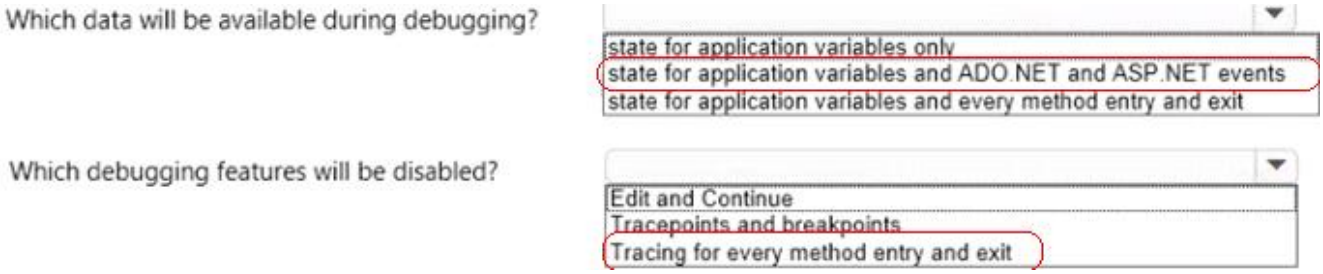
Which debugging features will be disabled?

- Edit and Continue
- Tracepoints and breakpoints
- **Tracing for every method entry and exit**

Explanation:
Box 1:



Box 2:



References:

NO.9 You are developing an ASP.NET MVC application that uses forms authentication against a third-party database.
You need to authenticate the users.
Which code segment should you use?

A.
```
public class SAMembershipProvider : SqlMembershipProvider
{
  ...
}
```

B.
```
public class SAMembershipProvider : ClientFormsMembershipProvider
{
  ...
}
```

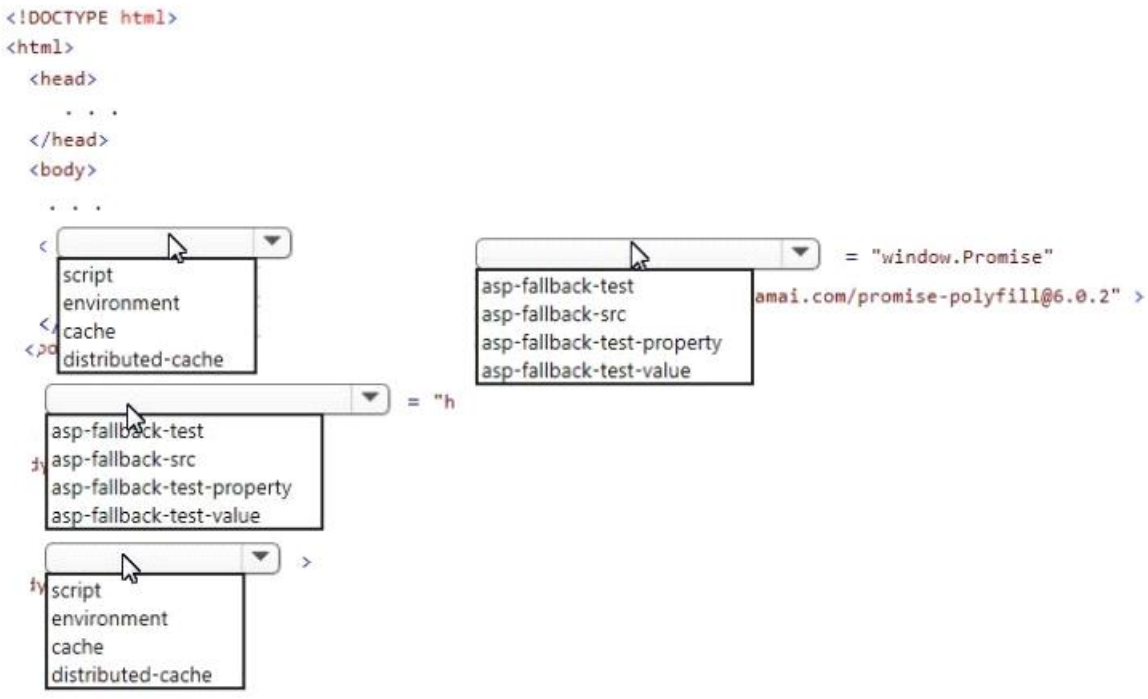
C.
```
public class SAMembershipProvider : ProviderBase
{
  ...
}
```

D.
```
public class SAMembershipProvider : MembershipProvider
{
  ...
}
```

A. Option A
B. Option D

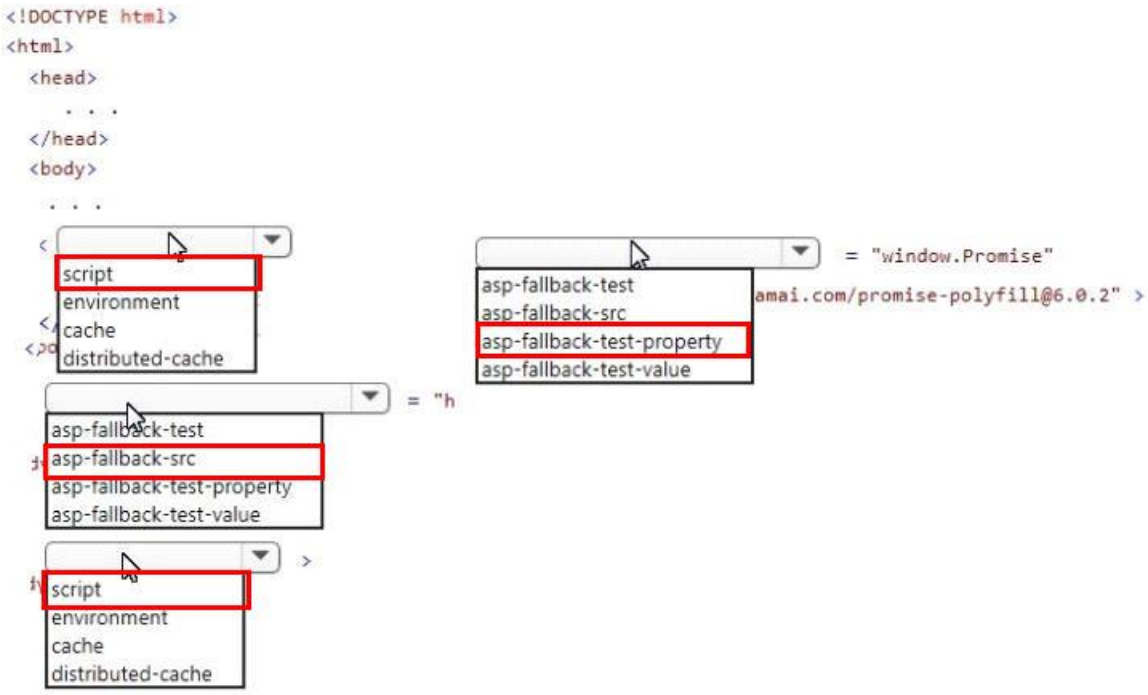
C. Option B
D. Option C
Answer: B
Explanation:
ASP.NET membership is designed to enable you to easily use a number of different membership providers for your ASP.NET applications.
There are two primary reasons for creating a custom membership provider.
* You need to store membership information in a data source that is not supported by the membership providers included with the .NET Framework, such as a FoxPro database, an Oracle database, or other data sources.
* You need to manage membership information using a database schema that is different from the database schema used by the providers that ship with the .NET Framework.
To implement a membership provider, you create a class that inherits the MembershipProvider abstract class from the System.Web.Security namespace.
Incorrect:
Not C: Class ProviderBase
The provider model is intended to encapsulate all or part of the functionality of multiple ASP.NET features, such as membership, profiles, and protected configuration.
References: https://msdn.microsoft.com/en-us/library/f1kyba5e.aspx

NO.10 You are developing an ASP.NET Core MVC web application.
The web application must support older web browsers and implemented JavaScript features. You must use a polyfill to support the JavaScript Promise object in all browsers.
You need to implement a built-in ASP.NET Core Tag Helper to support polyfills.
How should you complete the markup? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Answer Area



Answer:

Answer Area



NO.11 The designer for the website gave you the following image as the design for the page.

The normal color for the tab is *2da4c2, and the color when the mouse is over the tab is #ffd800.
The HTML that implements the navigation tab is as follows.

```
<ul id="nav">
  <li><a href="/">Home</a></li>
  <li><a href="/">About</a></li>
  <li><a href="/">Contact</a></li>
</ul>
```

You need to implement the design.
What should you do? (To answer, select the appropriate options in the answer area.)

Work Area

```
ul#nav {
    font-size: 1.3em;
    font-weight: 600;
}

ul#nav li {
    [                                                    ]
    [                                                    ]

    text-align: center;
}

ul#nav li a {
    [                                                    ]
    color: #FFF;
    [                                                    ]
    border-radius: 12px 12px 0 0;
    padding: 0 12px 0 12px;
    margin: 0 4px 0 4px;
}
ul#nav li a:hover {
    color: #333;
   [                                                     ]

   [                                                     ]
}
```

Work Area

```
ul#nav {
    font-size: 1.3em;
    font-weight: 600;
}

ul#nav li {
    [ ]
        float: left;
        background-color: #ffd800;
        background-color: #2da4c2
        text-decoration: none;
    [ ]
        text-decoration: none;
        list-style: none;
        border-radius: 15px;
        word-wrap: break-word;
    text-align: center;
}

ul#nav li a {
    [ ]
        background-clip: border-box;
        background-color: #2da4c2
        border-radius: 15px;
        word-wrap: break-word;
    color: #FFF;
    [ ]
        background-clip: padding-box;
        text-decoration: none;
        background-color: #ffd800;
        float: left;
    border-radius: 12px 12px 0 0;
    padding: 0 12px 0 12px;
    margin: 0 4px 0 4px;
}
ul#nav li a:hover {
    color: #333;
    [ ]
        float: left;
        background-color: #ffd800;
        background-color: #2da4c2
        list-style: none;
    [ ]
        cursor: pointer;
        background-clip: border-box;
        text-decoration: none;
        background-origin: border-box;

}
```

Answer:

Work Area

```
ul#nav {
    font-size: 1.3em;
    font-weight: 600;
}

ul#nav li {
    [ float: left;                          ]
    [ background-color: #ffd800;            ]
    [ background-color: #2da4c2             ]
    [ text-decoration: none;                ]

    [ text-decoration: none;                ]
    [ list-style: none;                     ]
    [ border-radius: 15px;                  ]
    [ word-wrap: break-word;                ]

    text-align: center;
}

ul#nav li a {
    [ background-clip: border-box;          ]
    [ background-color: #2da4c2             ]
    [ border-radius: 15px;                  ]
    [ word-wrap: break-word;                ]

    color: #FFF;
    [ background-clip: padding-box;         ]
    [ text-decoration: none;                ]
    [ background-color: #ffd800;            ]
    [ float: left;                          ]

    border-radius: 12px 12px 0 0;
    padding: 0 12px 0 12px;
    margin: 0 4px 0 4px;
}
ul#nav li a:hover {
    color: #333;
    [ float: left;                          ]
    [ background-color: #ffd800;            ]
    [ background-color: #2da4c2             ]
    [ list-style: none;                     ]

    [ cursor: pointer;                      ]
    [ background-clip: border-box;          ]
    [ text-decoration: none;                ]
    [ background-origin: border-box;        ]

}
```

NO.12 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

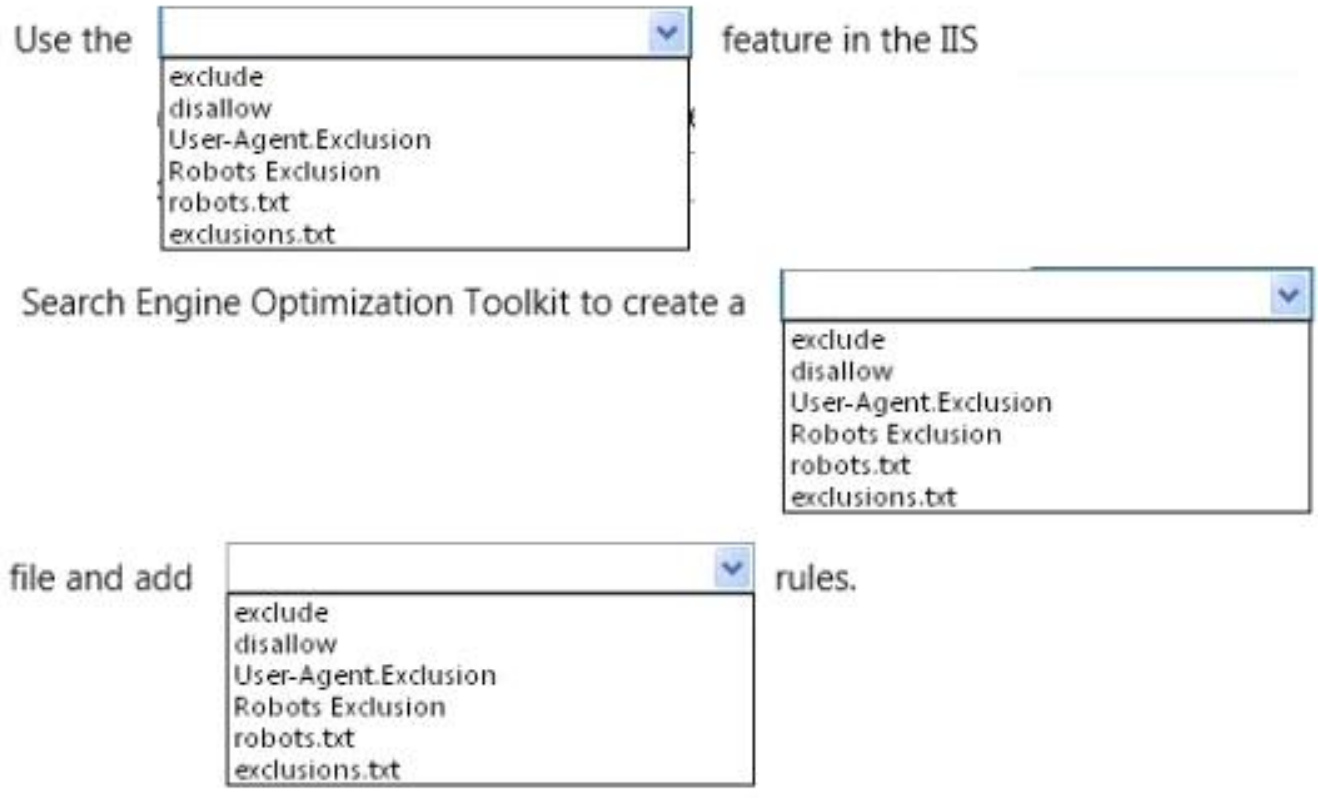
B. No

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.

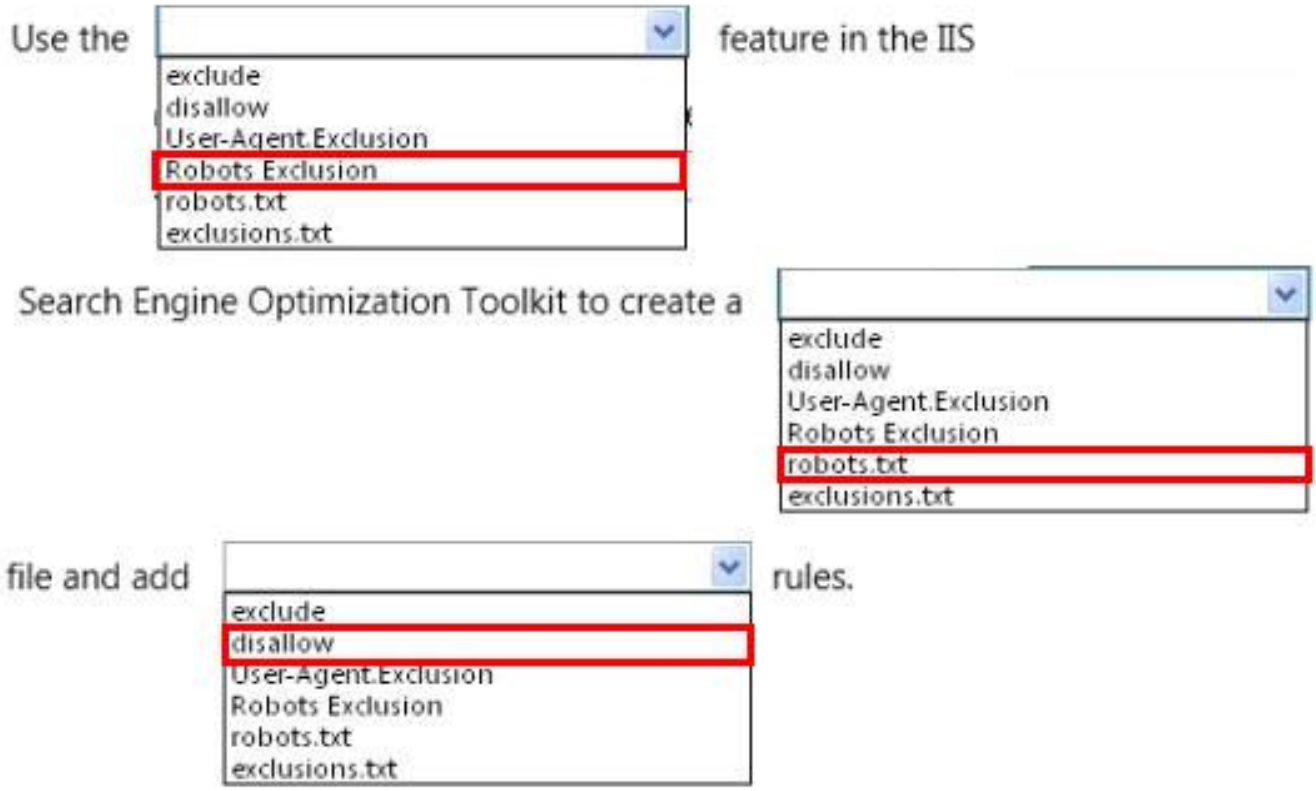
NO.13 You are using the features of the IIS SEO Toolkit to configure the website.
You need to exclude search engines from indexing parts of website.
What should you do? (To answer, select the appropriate option from the drop-down list in the answer area.)

Answer Area



Answer:

Answer Area



NO.14 You are developing an ASP.NET MVC web application.
You need to create a form that can be used to add new products to the web application.
You have the following markup:

```
<h2>Add Product</h2>
  Target 1
    <table>
      <tr>
        <td>Product Name:</td>
        Target 2
      </tr>
      <tr>
        <td>Price:</td>
        Target 3
      </tr>
      <tr>
        <td></td>
        <td>
          Target 4
        </td>
      </tr>
    </table>
</form>
```

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

Markup Segments

<form action="/Products/Create" method="post">
<form action="/Products/Create" method="submit">
<td>@Html.TextBox(@Model.ProductName)</td>
<td>@new TextBox(@Model.ProductName)</td>
<td>@Html.TextBox(@Model.UnitPrice)</td>
<td>@new TextBox(@Model.UnitPrice)</td>
<input type="submit" value="Save"/>
<input type="post" value="Save"/>

Answer area

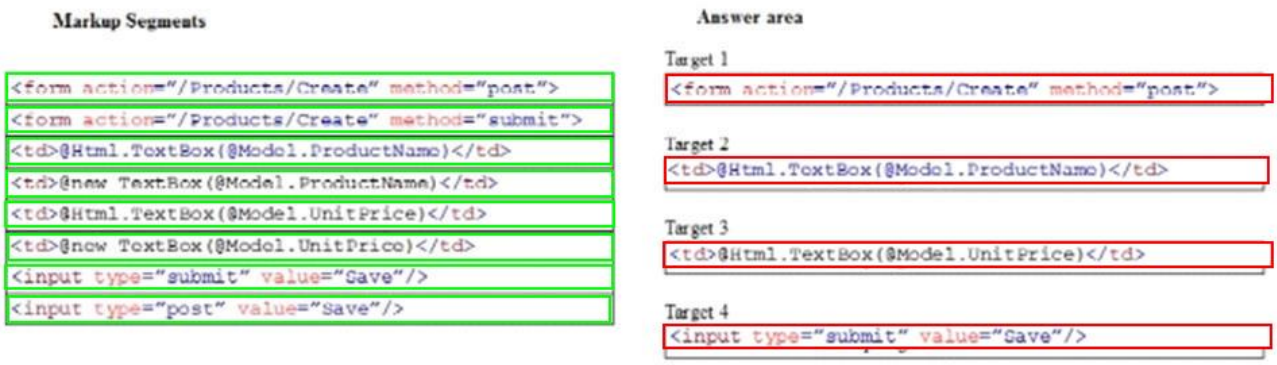
Target 1: Markup segment

Target 2: Markup segment

Target 3: Markup segment

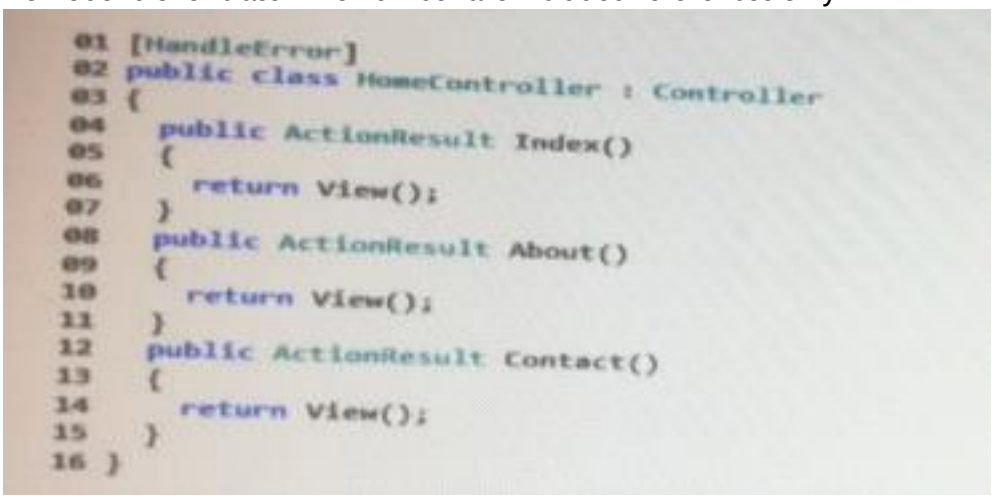
Target 4: Markup segment

Answer:



Explanation:
Target 1: <form action="/Products/Create" method="post">
The form methods are post and get (not submit).
Target 2: <td>@Html.Textbox(@Model.ProductName)</td>
The InputExtensions.TextBox method returns a text input element. The TextBox method is designed to make it easy to bind to view data or model data.
Target3: <td>@Html.Textbox(@Model.UnitPrice)</td>
The InputExtensions.TextBox method returns a text input element. The TextBox method is designed to make it easy to bind to view data or model data.
Target 4: <input type="submit" value="Save"/>
The submitattribute, of input type, declares a submit button.
The input type attribute does not have a post attribute.
References:
https://weblogs.asp.net/scottgu/asp-net-mvc-preview-5-and-form-posting-scenarios
https://msdn.microsoft.com/en-us/library/system.web.mvc.html.inputextensions.textbox(v=vs.118).aspx

NO.15 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.

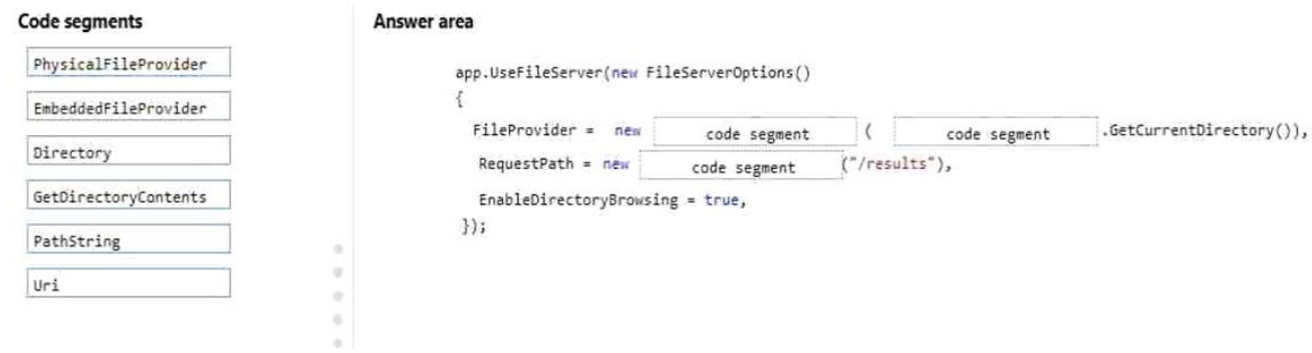
A. in the web.config file, set the value of the customErrors property to On.

B. Replace line 01 with the following code segment:
[HandleError(View="Error")]

C. Replace line 01 with the following code:

[HandleError(ExceptionType=typeof(SystemException))]
D. Create a custom error page named Error.aspx. Save the file in the Views\Shared folder for the project.
Answer: D

NO.16 You are developing an ASP.NET Core MVC web application that generates html-based reports each day. The reports are placed in a folder named Results in the root of the application.
The application must run on both Windows and Linux.
You need to ensure that reports can be downloaded.
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.



Answer:

Explanation:
Box 1: PhysicalFileProvider
Box 2: Directory
Code example.
There are three types of IFileProvider Implementations -
Physical File Provider - it is used to access the actual or physical file of the system Embedded File Provider - it is used to access files that are embedded in assemblies Composite File Provider - it is use d to provide combine access to the files from one or more providers.
Box 3: Pathstring
Code example:
app.UseStaticFiles(new StaticFileOptions()
{
FileProvider = new PhysicalFileProvider(
Path.Combine(Directory.GetCurrentDirectory(), @"MyStaticFiles")),

RequestPath = new PathString("/StaticFiles")
});
References:
https://jakeydocs.readthedocs.io/en/latest/fundamentals/static-files.html