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Developing ASP.NET MVC Web Applications

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QUESTION 1

You are employed as a developer at Certkingdom.com. Certkingdom.com has a single Active Directory domain, named Certkingdom.com.

You have received instructions to create a new Certkingdom.com website, using HTML5. You have been informed that the interface has to allow for the web page content to be accessible to disabled users.

Which of the following actions should you take?

A. You should consider including the use of File API attributes.

B. You should consider including the use of WebSocket API attributes.

C. You should consider including the use of Accessible Rich Internet Application (ARIA) attributes.

D. You should consider including the use of Geolocation attributes.

E. You should consider including the use of Indexed Database API attributes.

Correct Answer: C

QUESTION 2

You need to update the routes to ensure that a product is always displayed on the product page.

Which code segment should you use?

```
C A.    routes.MapRoute(
          "Product",
          "{productName}/{action}/{id}",
          new { action = "Show", productName = DefaultProduct }
        );

C B.    routes.MapRoute(
          "Product",
          "Product/{action}/{productName}",
          new { action = "Show", productName = DefaultProduct }
        );

C C.    routes.MapPageRoute(
          "Product",
          "Product/{action}/{productName}",
          "~/product.aspx",
          false,
          new RouteValueDictionary { { "action", "Show" }, { "productName", DefaultProduct }
        });

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

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: B

QUESTION 3

You are developing an ASP.NET application.

You need to minimize the amount of data in all HTTP responses.

What should you do?

A. Minify the content files.

B. Enable compression in IIS.

C. Host the image, JavaScript, and CSS files on Microsoft Azure Storage.

D. Bundle the content files.

Correct Answer: B

Network bandwidth is a limited resource. Reducing the size of the response usually increases the responsiveness of an app, often dramatically. One way to reduce payload sizes is to compress an app\\'s responses. Use server-based response compression technologies in IIS, Apache, or Nginx. References: https://docs.microsoft.com/en-us/aspnet/core/performance/response-compression?tabs=aspnetcore2x

---

QUESTION 4

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 folder. Then create a view inside this folder named Edit.aspx.

B. Add a folder named EditCustomer to the Views folder. Then create a view inside this folder named Catalog.aspx.

C. Add a class named CustomerController to the Controllers folder. Then add a method named Edit to the class.

D. Add a class named Catalog to the Controllers folder. Then add a method named EditCustomer to the class.

Correct Answer: AC

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

QUESTION 5

You are preparing for the deployment of an ASP.NET MVC application. You need to generate a deployment manifest. Which command-line tool should you use?

A. Mage.exe

B. Ngen.exe

C. ALexe

D. Resgen.exe

Correct Answer: A

The Manifest Generation and Editing Tool (Mage.exe) is a command-line tool that supports the creation and editing of application and deployment manifests.

Incorrect:

Not B: The Native Image Generator (Ngen.exe) is a tool that improves the performance of managed applications. Ngen.exe creates native images Not C: Al.exe generates a file with an assembly manifest, not an deployment manifest, from

one or more files that are either resource files or Microsoft intermediate language (MSIL) files.

Not D: Resgen.exe, the Resource File Generator, converts text (.txt or .restext) files and XML-based resource format (.resx) files to common language runtime binary (.resources) files that can be embedded in a runtime binary executable or

compiled into satellite assemblies.

References: http://www.devcurry.com/2011/02/important-net-framework-40-command- line.html

QUESTION 6

You are developing an ASP.NET MVC web application that includes the following method.

```
public double GoldMined(double currentGold, double newlyMinedGold)
{
  double totalGold = 0.00;
  totalGold = currentGold + newlyMinedGold;
  return totalGold;
}
```

You need to test the GoldMined method.

```
A.    [TestMethod()]
      public void GoldMineTest()
      {
        double currentGold = 175.05;
        double newlyMineGold = 76.03;
        double totalGold = 251.08;
        double result = 0.00;

        result = GoldMined(currentGold, newlyMineGold);
        Assert.IsTrue(totalGold, result);
      }


B.    [TestMethod()]
      public void GoldMineTest()
      {
        double currentGold = 175.05;
        double newlyMineGold = 76.03;
        double totalGold = 251.08;
        double result = 0.00;

        result = GoldMined(currentGold, newlyMineGold);
        Assert.IsEqual(totalGold, result);
      }
```

```
C.      [UnitTest()]
        public void GoldMineTest()
        {
          double currentGold = 175.05;
          double newlyMineGold = 76.03;
          double totalGold = 251.08;
          double result = 0.00;

          result = GoldMined(currentGold, newlyMineGold);
          Assert.AreEqual(totalGold, result);
        }


D.      [TestMethod()]
        public void GoldMineTest()
        {
          double totalGold = 175.05;
          double newlyMineGold = 76.03;
          double totalGold = 251.08;
          double result = 0.00;

          result = GoldMined(currentGold, newlyMineGold);
          Assert.AreEqual(totalGold, result);
        }
```

Which unit test should you use?

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 7

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?

C A. `[OutputCache(Location = OutputCacheLocation.Downstream, VaryByParam = "videoId",`

`VaryByCustom = "browser")]`

C B. `[OutputCache(Location = OutputCacheLocation.Any, VaryByCustom = "compressionMethod",`

`VaryByContentEncoding = "all")]`

C C. `[OutputCache(Location = OutputCacheLocation.ServerAndClient,`

`VaryByHeader = "Cache-Control")]`

C D. `[OutputCache(Location = OutputCacheLocation.Downstream,`

`VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, *;q=0")]`

C 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

Correct Answer: E

A VaryByParam property with the value "VideoId". When different values of the Id parameter are passed to the controller action, different cached versions of the Details view are generated.

It is important to understand that using the VaryByParam property results in more caching and not less. A different cached version of the Details view is created for each different version of the Id parameter.

You can set the VaryByParam property to the following values:

* = Create a different cached version whenever a form or query string parameter varies. none = Never create different cached versions Semicolon list of parameters = Create different cached versions whenever any of the form or query string parameters in the list varies References: https://docs.microsoft.com/en-us/aspnet/mvc/overview/older-versions-1/controllers-and-routing/improving-performance-with-output-caching-cs https://msdn.microsoft.com/en-us/library/system.web.mvc.outputcacheattribute_properties(v=vs.118).aspx

QUESTION 8

HOTSPOT

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.

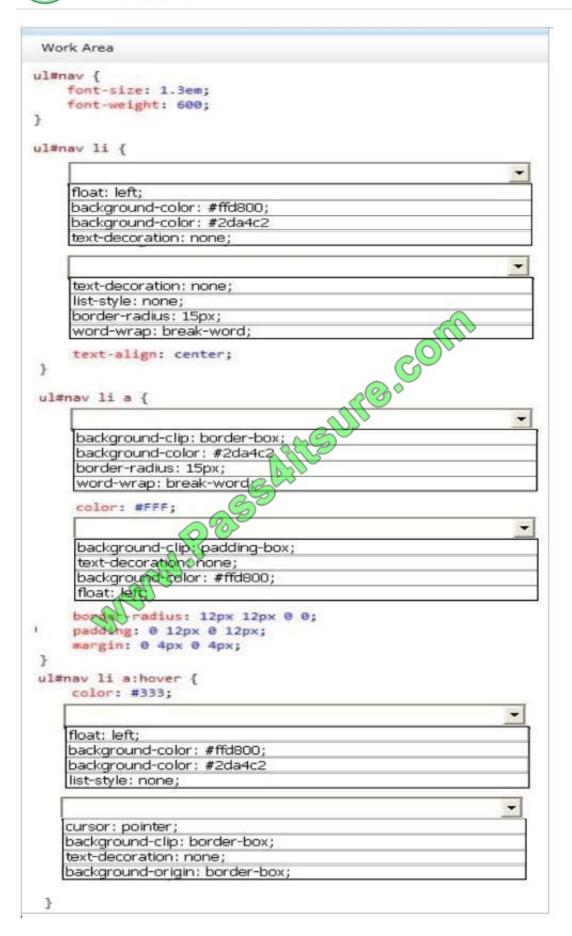The HTML that implements the navigation tab is as follows.

You need to implement the design.

```
<ul id="nav">
  <li><a href="/">Home</a></li>
  <li><a href="/">About</a></li>
  <li><a href="/">Contact</a></li>
</ul>
```
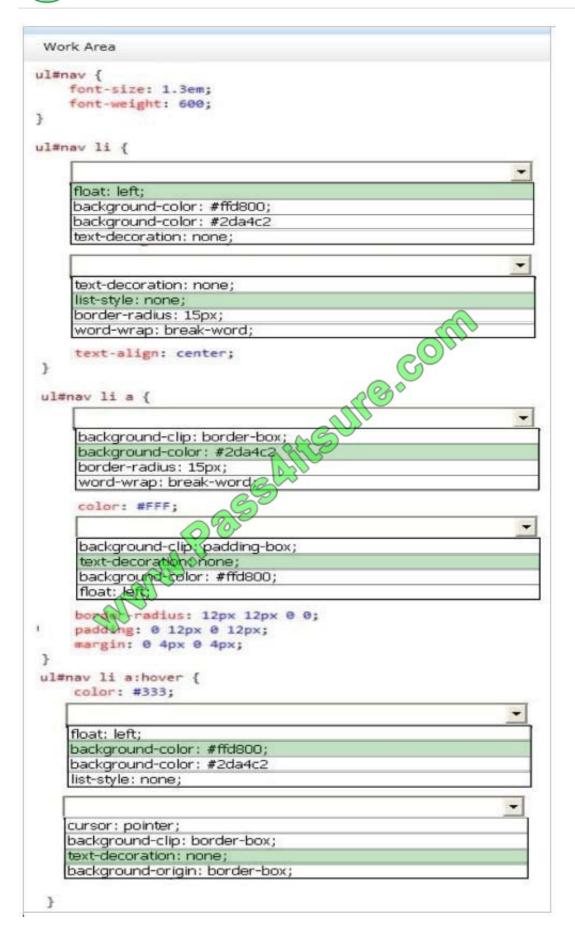
What should you do? (To answer, select the appropriate options in the answer area.)

Hot Area:

Work Area

```css
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;

```css
    text-align: center;
}

ul#nav li a {
```

▼
background-clip: border-box;
background-color: #2da4c2
border-radius: 15px;
word-wrap: break-word;

```css
    color: #FFF;
```

▼
background-clip: padding-box;
text-decoration: none;
background-color: #ffd800;
float: left;

```css
    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;

```css
}
```

Correct 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;

```
}
```

QUESTION 9

You are developing an ASP.NET Core MVC web application that will be deployed to Microsoft Azure App Services Web App.

Scheduled downtime during deployment of new features is not permitted.

You need to ensure that deployments do not result in downtime.

What should you do?

A. Add additional upgrade domains.

B. Use deployment slots during deployments.

C. Convert the Web App to run in a standalone Docker container.

D. Upgrade to a Premium App Service plan.

Correct Answer: B

References: https://blogs.msdn.microsoft.com/mvpawardprogram/2017/05/16/deploy-app-azure-app-service/

QUESTION 10

You plan a new ASP. NET MVC application.

The application uses the Model-View Controller (MVC) pattern to separate the modeling of the domain, the presentation, and the actions. This separation is based on user input into three separate classes.

You need to diagram the structural relationship between the three classes.

What should you do? To answer, drag the appropriate class to the correct location or locations. Each class name 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.

Select and Place:

Correct Answer:

Graphically, MVC can be shown like on image bellow:

References: http://www.beansoftware.com/ASP.NET-Tutorials/Intro-ASP.NET-MVC.aspx

QUESTION 11

You are developing an ASP.NET Core MVC web application that uses custom security middleware. The middleware will add a response header to stop pages form loading when reflected cross-site scripting (XSS) attacks are detected.

The security middleware component must be constructed once per application lifetime.

You need to implement the middleware.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
public class SecurityMiddleware
{
    private readonly Requestdelegate_next;
    public SecurityMiddleware(RequestDelegate next)
    {
     _next = next;
    }
    public Task Invoke(HttpContext httpContext)
    }
      httpContext.Response.Headers.Add("X-XSS-Protection", "1; mode=block");
     return   _next.Invoke(httpContext)
              _next(httpContext)
              _next.DynamicInvoke(httpContext)
}public static class SecurityMiddlewareExtensions
{
    public static IApplicationBuilder  UseSecurityMiddleware
    {                                   UseMiddleware<SecurityMiddleware>
      return builder.                   SecurityMiddleware


              UseMiddleware<SecurityMiddleware>()
              Use(async(context,next) => {await next.Invoke();}}
              UseAuthentication()
    }
}
public class Startup
{
  ...
   public calss Startup
{
  ...
   public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
  ...
app.      UseSecurityMiddleware
...       UseAuthentication
          UseIdentity
   }
}
```

Correct Answer:

Answer Area

```
public class SecurityMiddleware
{
    private readonly Requestdelegate_next;
    public SecurityMiddleware(RequestDelegate next)
    {
    _next = next;
    }
    public Task Invoke(HttpContext httpContext)
    }
        httpContext.Response.Headers.Add("X-XSS-Protection", "1; mode=block");
        return   _next.Invoke(httpContext)
                 _next(httpContext)
                 _next.DynamicInvoke(httpContext)
}public static class SecurityMiddlewareExtensions
{
    public static IApplicationBuilder  UseSecurityMiddleware
    {                                   UseMiddleware<SecurityMiddleware>
      return builder.                   SecurityMiddleware


                 UseMiddleware<SecurityMiddleware>()
                 Use(async(context,next) => {await next.Invoke();}}
                 UseAuthentication()
    }
}
public class Startup
{
  ...
  public calss Startup
{
  ...
  public void Configure(IApplicationBuilder app, IHostingEnvironment env)
{
  ...
app.     UseSecurityMiddleware
...      UseAuthentication
         UseIdentity
   }
}
```

Box 1: return _next(httpContext);

Example:

public Task Invoke(HttpContext httpContext)

```
{

httpContext.Response.Headers.Add("X-Xss-Protection", "1");

httpContext.Response.Headers.Add("X-Frame-Options", "SAMEORIGIN");

httpContext.Response.Headers.Add("X-Content-Type-Options", "nosniff");

return _next(httpContext);

}
```

Box 2: UseSecurityMiddleware

Box 3: UseMiddleware()

Example:

```
public static class SecurityMiddlewareExtensions

{

public static IApplicationBuilder UseSecurityMiddleware(this IApplicationBuilder builder)

{

return builder.UseMiddleware();

}

}
```

Box 4: UseSecurityMiddleware

The Extensions part is optional, but it does allow you to write code like this :

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env, ILoggerFactory loggerFactory)

{

app.UseMiddleware(); //If I didn\'t have the extension method

app.UseSecurityMiddleware(); //Nifty encapsulation with the extension

}
```

Reference:

https://dotnetcoretutorials.com/2017/03/10/creating-custom-middleware-asp-net-core/

https://docs.microsoft.com/en-us/aspnet/core/fundamentals/middleware/?view=aspnetcore-2.1andtabs=aspnetcore2x

QUESTION 12

You are developing an ASP.NET MVC application that uses forms authentication to verify that the user is logged in.

Authentication credentials must be encrypted and secure so no user identity is exposed.

You need to ensure that user credentials are persisted after users log on.

Where should you store the credentials? (Each correct answer presents a complete solution. Choose all that apply.)

A. In Session on the server

B. In a cookie stored in the browser

C. In ViewData in the application

D. In TempData on the server

Correct Answer: AB

Server sessions and cookies can both be configured to secure and they both persist after the users log on.

Incorrect:

Not C: ViewData\\'s life only lasts during current http request. Not D: TempData is a bucket where you can dump data that is only needed for the following request. That is, anything you put into TempData is discarded after the next request

completes.

QUESTION 13

You need to modify the application to meet the productId requirement.

Which code segment should you use?

C A. Modify the **RegisterGlobalFilters** method of the Global.asax.cs file as follows.

Contract.Assume<ArgumentException>(productId != 0);

C B. Modify the **GetDealPrice** method of **ProductController** as follows.

Contract.RequiresAssume<ArgumentException>(productId != 0);

C C. Modify the **GetDealPrice** method of **ProductController** as follows.

Contract.Requires<ArgumentException>(productId > 0);

C D. Modify the **RegisterGlobalFilters** method of the Global.asax.cs file as follows.

Contract.Requires<ArgumentException>(productId > 0);

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

Scenario: The value of the productId property must always be greater than 0.

Note: The Contract.Requires(Of TException) method specifies a precondition contract for the enclosing method or property, and throws an exception if the condition for the contract fails.

Syntax:

\\'Declaration

Public Shared Sub Requires(Of TException As Exception) (_ condition As Boolean _)

Type Parameters

TException

The exception to throw if the condition is false.

Parameters

condition

Type: System.Boolean

The conditional expression to test.

Reference: Contract.Requires(Of TException) Method (Boolean)

QUESTION 14

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.

You need to ensure that the application can handle large-scale role changes.

What should you use for authorization? (Each correct answer presents a complete solution.

Choose all that apply.)

A. Resource-based trusted subsystem model

B. Identity-based approach

C. Role-based approach
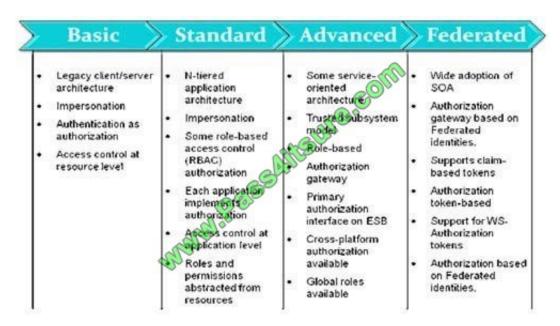
D. Resource-based impersonation/delegation model

Correct Answer: BC

Advanced Maturity: Authorization as a Service

In the advanced level of maturity for authorization, role storage and management is consolidated and authorization itself is a service available to any solution that is service- enabled.

* The Trusted Subsystems Model Once authorization is available as an autonomous service, the need for impersonation is eliminated. Instead of assuming the identity of the user, the application uses its own credentials to access services and resources, but it captures the user\\'s identity and passes it as a parameter (or token) to be used for authorization when a request is made. This model is referred to as the trusted subsystem model, because the application acts as a trusted subsystem within the security domain.

QUESTION 15

You are authoring unit tests.

The unit tests must test code that consumes sealed classes.

You need to create, maintain, and inject dependencies in the unit tests.

Which isolation method should you use?

A. Shim types

B. Stub types

C. Hard-coded implementation

D. T4 text templates and code generation

Correct Answer: A