

- **Vendor: Microsoft**
- **Exam Code: 70-486**
- **Exam Name: Developing ASP.NET MVC (5.1) Web Applications**
- **Question 151 – Question 180**

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QUESTION 151

Hotspot Question

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

Target 1:

configSource
uiCulture
enableClientBasedCulture
siteMap
globalization

Target 2:

configSource
uiCulture
enableClientBasedCulture
siteMap
globalization

Target 3:

configSource
uiCulture
enableClientBasedCulture
siteMap
globalization

Answer:

Answer Area

Target 1:

Target 2:

Target 3:

QUESTION 152

You are developing an ASP.NET MVC application that enables you to edit and save a student object. The application must not retrieve student objects on an HTTP POST request. You need to implement the controller. Which code segment should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- ☐ A.

```
public ActionResult EditStudent(int id, Student s)
{
    if (this.HttpContext.Request["ActionName"] == "GET")
    {
        c = RetrieveStudent(id);
    }

    if (this.HttpContext.Request["ActionName"] == "POST")
    {
        SaveStudent(s);
    }
    return View(s);
}
```
- ☐ B.

```
[ActionName("GET")]
public ActionResult EditStudent(int id)
{
    var c = RetrieveStudent(id);
    return View(s);
}

[ActionName("POST")]
public ActionResult EditStudent(int id, Student s)
{
    SaveStudent(s);
    return View(s);
}
```
- ☐ C.

```
[HttpGet]
public ActionResult EditStudent(int id)
{
    var c = RetrieveStudent(id);
    return View(s);
}

[HttpPost]
public ActionResult EditStudent(int id, Student s)
{
    SaveStudent(s);
    return View(s);
}
```
- ☐ D.

```
public ActionResult EditStudent(int id, Student s)
{
    if (this.HttpContext.Request.RequestType == "GET")
    {
        c = RetrieveStudent(id);
    }

    if (this.HttpContext.Request.RequestType == "POST")
    {
        SaveStudent(s);
    }
    return View(c);
}
```

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

Answer: CD

QUESTION 153

Drag and Drop Question

You are developing an ASP.NET MVC application in Visual Studio 2012. The application processes data for a bakery and contains a controller named BagelController.es that has several actions. The GetBagel action is defined in the following code segment.

```
public ActionResult GetBagel(string bagelName)
{
    ...
}
```

The GetBagel action is the only action that should be accessed via a URL pattern. Routes to the other actions in the controller must be suppressed. The default route must map to HomeController and the Index action. You need to build the routes. Which three code segments should you use 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	Answer Area
<pre>routes.MapRoute(name: "Bagels", url: "Bagel/GetBagel/{bagelName}", defaults: new { controller = "Bagel", action = " GetBagel" });</pre>	
<pre>routes.IgnoreRoute("Bagel/{*}");</pre>	
<pre>routes.IgnoreRoute("Bagel/{*pathInfo}");</pre>	
<pre>routes.MapRoute(name: "Default", url: "{controller}/{action}/ {id}", defaults: new { controller = "Home", action = "I ndex", id = UrlParameter.Optional });</pre>	
<pre>routes.MapHttpRoute(name: "Bagels", routeTemplate: "Bagel/GetBagel/{bagelName}", defaults: new { controller = "Bagel", action = " GetBagel" });</pre>	

Answer:

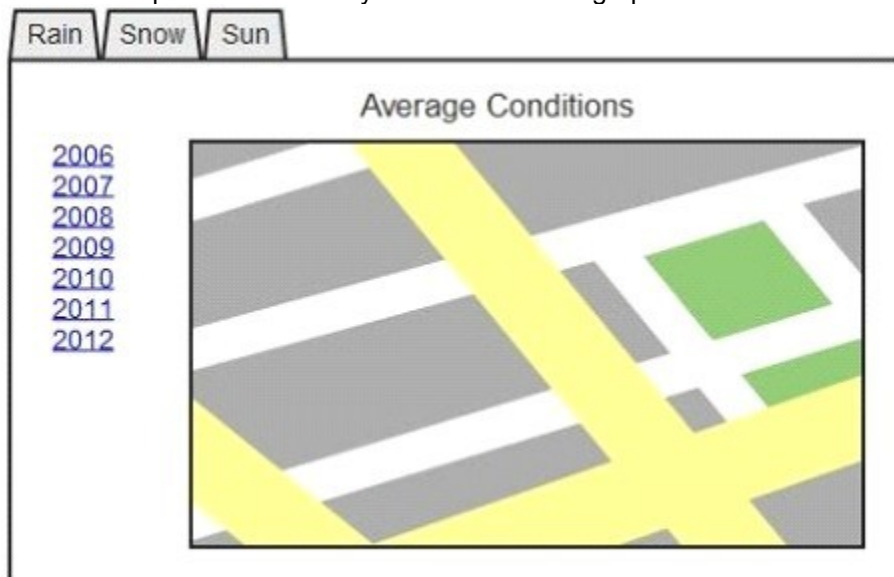
Actions	Answer Area
<pre>routes.IgnoreRoute("Bagel/{*}");</pre>	<pre>routes.MapRoute(name: "Bagels", url: "Bagel/GetBagel/{bagelName}", defaults: new { controller = "Bagel", action = " GetBagel" }); routes.IgnoreRoute("Bagel/{*pathInfo}"); routes.MapRoute(name: "Default", url: "{controller}/{action}/ {id}", defaults: new { controller = "Home", action = "I ndex", id = UrlParameter.Optional });</pre>
<pre>routes.MapHttpRoute(name: "Bagels", routeTemplate: "Bagel/GetBagel/{bagelName}", defaults: new { controller = "Bagel", action = " GetBagel" });</pre>	

Explanation:

<https://msdn.microsoft.com/en-us/library/cc668201.aspx>

QUESTION 154

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.



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

QUESTION 155

You are designing a localized ASP.NET MVC online shopping application that will be deployed to customers in the United States, China, France, and Brazil. The application must support multiple cultures so that content in the appropriate language is available in each area. You need to ensure that the content can be viewed in several languages. How should you implement this feature?

- A. Use a resource (.resx) file to provide translations.
B. Use `Systems.Collections.Generic.Dictionary` to store alternative translations.
C. Ensure that all strings are marked internal to avoid conflict with internal literals.
D. Include language-specific content in the assembly manifest and use .NET culture libraries.

Answer: A

Explanation:

A resource file is an XML file that contains the strings that you want to translate into different

languages or paths to images. The resource file contains key/value pairs. Each pair is an individual resource. Key names are not case sensitive. For example, a resource file might contain a resource with the key Button1 and the value Submit. You create a separate resource file for each language (for example, English and French) or for a language and culture (for example English [U.K.], English [U.S.]). Each localized resource file has the same key/value pairs; the only difference is that a localized resource file can contain fewer resources than the default resource file. The built-in language fallback process then handles loading the neutral or default resource.

Reference: SP.NET Web Page Resources Overview

QUESTION 156

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: AB

Explanation:

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.

Basic	Standard	Advanced	Federated
<ul style="list-style-type: none"> Legacy client/server architecture Impersonation Authentication as authorization Access control at resource level 	<ul style="list-style-type: none"> N-tiered application architecture Impersonation Some role-based access control (RBAC) authorization Each application implements authorization Access control at application level Roles and permissions abstracted from resources 	<ul style="list-style-type: none"> Some service-oriented architecture Trusted subsystem model Role-based Authorization gateway Primary authorization interface on ESB Cross-platform authorization available Global roles available 	<ul style="list-style-type: none"> Wide adoption of SOA Authorization gateway based on Federated identities. Supports claim-based tokens Authorization token-based Support for WS- Authorization tokens Authorization based on Federated identities.

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 157

Drag and Drop Question

You are developing an ASP.NET MVC application in a web farm. The application has a page that uploads a customer's photo, resizes it, and then redirects the browser to a page where the new image is displayed along with the final dimensions. The final dimensions should be available only to the page where the new image is displayed. You need to store state and configure the application. What should you do? (To answer, drag the appropriate item to the correct location. Each item 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.)

Items	Answer area
<div>TempData</div> <div>ViewData</div> <div>InProc</div> <div>SqlServer</div>	Store state in <div>Item</div> and set the mode attribute of the sessionState element in the web.config file to <div>Item</div>

Answer:

Items	Answer area
<div>TempData</div> <div>ViewData</div> <div>InProc</div> <div>SqlServer</div>	Store state in <div>TempData</div> and set the mode attribute of the sessionState element in the web.config file to <div>SqlServer</div>

QUESTION 158

You are designing a localized ASP.NET application to support multiple cultures. You need to ensure that the application can be displayed in several languages. How should you implement this feature?

- A. Use a resource (.resx) file.
- B. Include language-specific content in the assembly manifest.
- C. Use Systems.Collections.Generic.Dictionary to store alternative translations.
- D. Ensure that all strings are marked internal.

Answer: A

QUESTION 159

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. Enable compression in IIS.
- B. Move the content to a second server.
- C. Combine the content files by using ASP.NET MVC bundling.
- D. Implement HTTP caching in IIS.

Answer: C

QUESTION 160

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>

QUESTION 162

How could you traditionally consume an ASMX web service from your application? (Choose all that apply.)

- A. Generate a proxy by selecting Add Reference In Visual Studio.
- B. Create an HttpService and connect using Get(URL).
- C. Generate a proxy by selecting Add A Service Reference in Visual Studio.

D. Create a WCF proxy class.

Answer: BC

QUESTION 163

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.

<http://www.codeproject.com/Articles/718004/ASP-NET-MVC-Client-Side-Validation>

QUESTION 164

You are developing an ASP.NET MVC application. The application provides a RESTful API for third-party applications. This API updates the information for a contact by embedding the information in the URL of an HTTP POST. You need to save the Contact type when third-party applications use the EditContact method. Which code segment should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- ☐ A.

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

```
public ActionResult EditContact(Contact c)
{
    SaveContact(c);
    return View(c);
}
```
- ☐ C.

```
public ActionResult EditContact()
{
    var c = new Contact()
    {
        FirstName = Request.QueryString["FirstName"],
        LastName = Request.QueryString["LastName"]
    };
    SaveContact(c);
    return View(c);
}
```
- ☐ D.

```
public ActionResult EditContact(QueryStringValueProvider values)
{
    var c = new Contact()
    {
        FirstName = values.GetValue("FirstName"),
        LastName = values.GetValue("LastName")
    };
    SaveContact(c);
    return View(c);
}
```

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

Answer: BC

Explanation:

Basics of RESTful services: REST stands for Representational State Transfer, it is a simple stateless architecture that runs over HTTP where each unique URL is representation of some resource. There are four basic design principles which should be followed when creating RESTful service:

* Use HTTP methods (verbs) explicitly and in consistent way to interact with resources (Uniform Interface), i.e. to retrieve a resource use GET, to create a resource use POST, to update a resource use PUT/PATCH, and to remove a resource use DELETE.

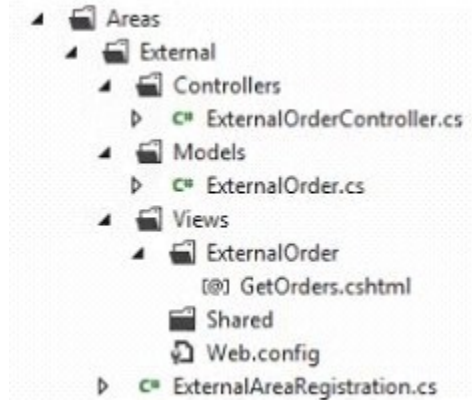
...

Etc.

QUESTION 165

Drag and Drop Question

You are developing an ASP.NET MVC application in Visual Studio. The application contains an area that is defined as shown in the following graphic.



The ActionLink method must invoke the GetOrders() action in ExternalOrderController. You need to configure the parameters of the ActionLink method. You have the following markup.

```
<li>
    @Html.ActionLink(
        "ViewExternalOrders",
        Target 1
        Target 2
        new { area = Target 3 }
        ,null
    )
</li>
```

Which markup segments should you include in Target 1, Target 2 and Target 3 to complete the markup? To answer, drag the appropriate markup segment 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

"GetOrders",
"External",
"ExternalOrder",
"ExternalOrderController",

Answer area

Target 1:	Markup Segment
Target 2:	Markup Segment
Target 3:	Markup Segment

Answer:

Markup Segments

"ExternalOrderController",

Answer area

Target 1:

"GetOrders",

Target 2:

"ExternalOrder",

Target 3:

"External",

QUESTION 166

Hotspot Question

You are developing an ASP.NET MVC application. The application includes the following code. Line numbers are included for reference 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 }

```

You add the following markup to the system.web section of the web.config file:

```

<customErrors mode="On" defaultRedirect="Error.htm">
  <error statusCode="500" redirect="/CustomError.htm" />
</customErrors>

```

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

Answer Area

	Yes	No
When a 400-level error occurs, the ASP.NET default error page displays.	<input type="radio"/>	<input type="radio"/>
When a 500-level error occurs in an ActionResult method, the Error view in the ~/Views/Shared folder handles the error.	<input type="radio"/>	<input type="radio"/>
When an exception occurs while displaying the Error view, AppErrors.htm handles the error.	<input type="radio"/>	<input type="radio"/>

Answer:

Answer Area

	Yes	No
When a 400-level error occurs, the ASP.NET default error page displays.	<input checked="" type="radio"/>	<input type="radio"/>
When a 500-level error occurs in an ActionResult method, the Error view in the ~/Views/Shared folder handles the error.	<input checked="" type="radio"/>	<input type="radio"/>
When an exception occurs while displaying the Error view, AppErrors.htm handles the error.	<input type="radio"/>	<input checked="" type="radio"/>

QUESTION 167

You are developing an ASP.NET MVC application that will run on Azure. The application uses Event Tracing for Windows (ETW) for logging operations. You need to retrieve the ETW data for the application from a deployed Azure instance by using the Azure Diagnostics API. Which data source should you use?

- A. Azure Diagnostic infrastructure logs
- B. Windows event logs
- C. performance counters
- D. .NET EventSource

Answer: D

Explanation:

Azure Diagnostics 1.2 and 1.3 are Azure extensions that enable you to collect diagnostic telemetry data from a worker role, web role, or virtual machine running in Azure. Diagnostics 1.2 and 1.3 enable the collection of ETW and .NET EventSource events.

Example:

```
<EtwProviders>
<EtwEventSourceProviderConfiguration provider="SampleEventSourceWriter"
scheduledTransferPeriod="PT5M">
<Event id="1" eventDestination="EnumsTable"/>
<Event id="2" eventDestination="MessageTable"/>
<Event id="3" eventDestination="SetOtherTable"/>
<Event id="4" eventDestination="HighFreqTable"/>
<DefaultEvents eventDestination="DefaultTable"/>
</EtwEventSourceProviderConfiguration>
</EtwProviders>
```

<https://azure.microsoft.com/sv-se/documentation/articles/cloud-services-dotnet-diagnostics/>

QUESTION 168

Drag and Drop Question

You are developing an ASP.NET MVC application in a web farm. The application has a page that accepts a customer's order, processes it, and then redirects the browser to a page where the order is displayed along with the shipping information. The order information should be available only to the page where the order is displayed. You need to store state and configure the application. What should you do? To answer, drag the appropriate item to the correct location. Each item 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.

Items

TempData

ViewData

InProc

SqlServer

Answer area

Store state in and set the mode attribute of the sessionState element in the web.config file to

Answer:

Items

ViewData

InProc

Answer area

Store state in and set the mode attribute of the sessionState element in the web.config file to

QUESTION 169

You are implementing a website redesign of an existing website that provides historical weather condition maps. The current layout resembles the following graphic.



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-changer". 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?

Which code segment should you use?

- ☐ A.

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

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

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

```
$("#year-changer").datepicker({  
  yearRange: { 2006:2012 },  
  constrainInput: true,  
  stepMonths: 12  
});
```

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

Answer: B

Explanation:

jQuery code will bind the slider control to the div.

```
$(document).ready(function() {  
  $("#slider").slider();  
});
```

Now, when you run this page then you will see a long slider on page with no range. As we have not specified any range, slider control comes with various options/properties which can be set. Here are few of them:

1. min: Minimum value allowed for the slider.
2. max: Maximum allowed value for the slider.
3. step: How much you want to increment when you slide. Default is 1.
4. value: Set default value of the slider.

<http://www.jquerybyexample.net/2010/09/implement-jquery-ui-slider-with-aspnet.html>

QUESTION 170

You develop an ASP.NET MVC application. The application has a controller named PeopleController.cs. The controller has an action method that returns a parent view. The parent

view includes the following code. (Line numbers are included for the reference only.)

```
01 @model PartialView.Models.PersonViewModel
02 @{
03     ViewBag.Title = "People";
04 }
05 <div>
06     <h1>People</h1>
07 </div>
08 <div>
09
10 </div>
```

The application also contains a partial view named People. The parent view must display the partial view. You need to add code at line 09 to display the partial view within the parent view. Which two code segments will achieve the goal? Each correct answer presents a complete solution.

- A. @{ Html.RenderPartial("People", Model); }
- B. @Html.Partial("People", Model)
- C. @Html.Display("People", Model)
- D. @Html.Raw("People")

Answer: AB

Explanation:

By default, any partial view rendered by calling `@Html.Partial("PartialViewName")` will get the view model passed to the parent view.

<http://stackoverflow.com/questions/13769707/how-to-populate-mvc-razor-partial-view>

QUESTION 171

Hotspot Question

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>
```

Answer:

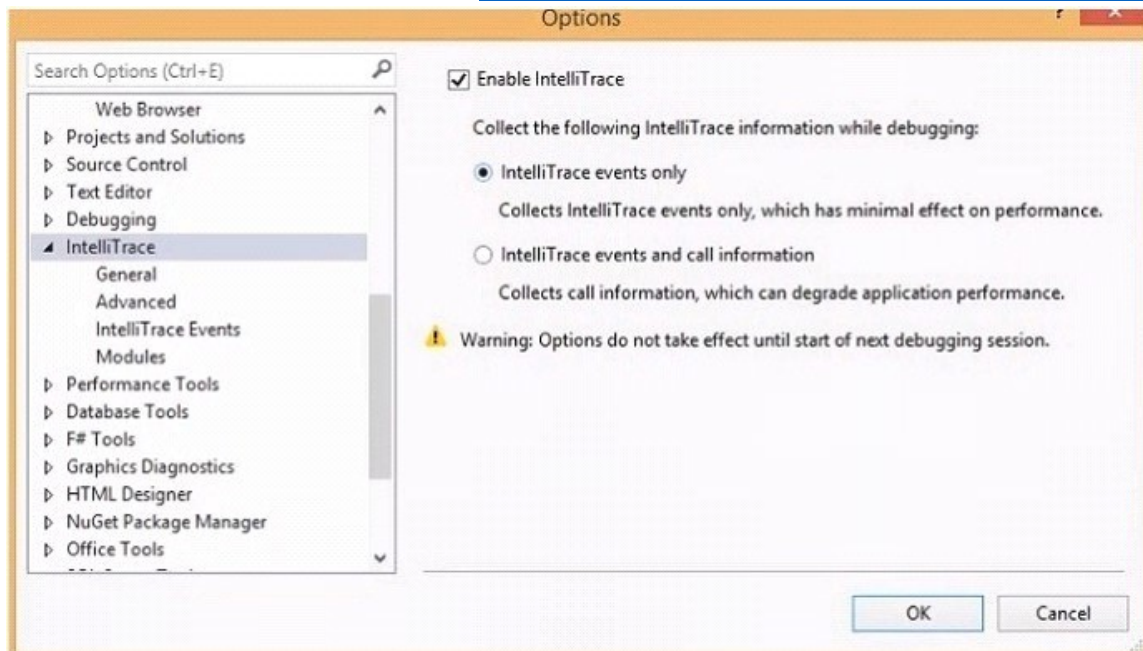
Answer Area

```
<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>
```

QUESTION 172

Hotspot Question

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

QUESTION 173

Hotspot Question

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]
[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")
}
```

Answer:

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")
}

```

QUESTION 174

Drag and Drop Question

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

Answer:

Code Segments

custEncrypt

maskedAccountNum

Html

Encrypt(item.AccountNumber)

Encode(item.AccountNumber)

Answer Area

Target 1: maskedAccountNum

Target 2: custEncrypt

Target 3: Encrypt(item.AccountNumber)

QUESTION 175

Hotspot Question

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"/>

Answer:

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"/>

QUESTION 176

Drag and Drop Question

You are developing an ASP.NET MVC application in Visual Studio. 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 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

configSource

uiCulture

enableClientBasedCulture

siteMap

globalization

Answer Area

Target 1: Markup Segment

Target 2: Markup Segment

Target 3: Markup Segment

Answer:

Markup Segments

configSource
uiCulture
enableClientBasedCulture
siteMap
globalization

Answer Area

Target 1: globalization
Target 2: enableClientBasedCulture
Target 3: uiCulture

QUESTION 177

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.

<https://msdn.microsoft.com/library/microsoft.windowsazure.diagnostics.crashdumps.enablecollection.aspx>

QUESTION 178

You are developing an application that uses many small images. When the images load, the application runs slowly. You need to improve the performance of the application. What should you do?

- A. Preload all the images when the application starts to ensure that the images are cached.
- B. Convert the images to ICO file format and stream all images on a single connection.
- C. Host all images on a Microsoft Azure web role with multiple instances.
- D. Combine all the images into a single image and use CSS to create sprites.

Answer: D

Explanation:

Because browsers limit how many concurrent HTTP requests they make to a website, a web page with many small icon images can result in a longer load time. You can combine many small images into a single larger image - a CSS sprite - using the free ASP.NET Sprite and Image Optimization Library available from Microsoft.

<http://dotnetslackers.com/articles/aspnet/CSS-Sprites-and-the-ASP-NET-Sprite-and-Image-Optimization-Library.aspx>

QUESTION 179

Drag and Drop Question

You are developing an ASP.NET web application that uses health monitoring to log events to the Windows Event Log. The application contains a custom event that is defined in the following code segment. Line numbers are included for reference only.

```
01 public class PaymentProcessorOutage : WebRequestEvent
02 {
03     public PaymentProcessorOutage(object eventSource, int eventCode) :
04         base("Payment Processor not responsive", eventSource, eventCode) {}
05
06     public override void FormatCustomEventDetails(WebEventFormatter formatter)
07     {
08         var message = string.Format("Payment processor became non-responsive on {0}", EventTime);
09         formatter.AppendLine(message);
10     }
11 }
```

You need to ensure that the event is correctly added to the Windows event log. How should you complete the relevant code? To answer, drag the appropriate code segment to the correct location or locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Code segments

.WebExtendedBase + 30

.ApplicationCodeBase + 30;

.ApplicationDetailCodeBase + 30;

.FormatCustomEventDetails(null);

.Raise();

.Concat();

Answer Area

```
public ActionResult myResult()
{
    var code = WebEventCodes
    var outage = new PaymentProcessorOutage(this, code);
    outage
    return Content("done");
}
```

Answer:

Code segments

.WebExtendedBase + 30

.ApplicationCodeBase + 30;

.ApplicationDetailCodeBase + 30;

.FormatCustomEventDetails(null);

.Raise();

.Concat();

Answer Area

```
public ActionResult myResult()
{
    var code = WebEventCodes
    var outage = new PaymentProcessorOutage(this, code);
    outage
    return Content("done");
}
```

QUESTION 180

Hotspot Question

You are developing an ASP.NET MVC application. Before an action is executed, information about the action must be written to a log. After results are returned, information about the results also must be written to the log. You need to log the actions and results. You have the following code:

```
Target 1
{
    public override void
    Target 2
    {
        Logger.Log("ActionLog", filterContext.RouteData);
    }
    public override void
    Target 3
    {
        Logger.Log("ResultLog", filterContext.RouteData);
    }
}
```

Which code segments should you include in Target 1, Target 2 and Target 3 to implement the LogActionFilter class? (To answer, select the appropriate option from the drop-down list in the answer area.)

Answer Area

Target 1:

OnActionExecuting(ActionExecutingContext filterContext)
OnActionExecuted(ActionExecutedContext filterContext)
OnResultExecuting(ResultExecutingContext filterContext)
OnResultExecuted(ResultExecutedContext filterContext)
public class LogActionFilter : ActionFilterAttribute
public class LogActionFilter : IActionFilter

Target 2:

OnActionExecuting(ActionExecutingContext filterContext)
OnActionExecuted(ActionExecutedContext filterContext)
OnResultExecuting(ResultExecutingContext filterContext)
OnResultExecuted(ResultExecutedContext filterContext)
public class LogActionFilter : ActionFilterAttribute
public class LogActionFilter : IActionFilter

Target 3:

OnActionExecuting(ActionExecutingContext filterContext)
OnActionExecuted(ActionExecutedContext filterContext)
OnResultExecuting(ResultExecutingContext filterContext)
OnResultExecuted(ResultExecutedContext filterContext)
public class LogActionFilter : ActionFilterAttribute
public class LogActionFilter : IActionFilter

Answer:

Answer Area

Target 1:

OnActionExecuting(ActionExecutingContext filterContext)
OnActionExecuted(ActionExecutedContext filterContext)
OnResultExecuting(ResultExecutingContext filterContext)
OnResultExecuted(ResultExecutedContext filterContext)
public class LogActionFilter : ActionFilterAttribute
public class LogActionFilter : IActionFilter

Target 2:

OnActionExecuting(ActionExecutingContext filterContext)
OnActionExecuted(ActionExecutedContext filterContext)
OnResultExecuting(ResultExecutingContext filterContext)
OnResultExecuted(ResultExecutedContext filterContext)
public class LogActionFilter : ActionFilterAttribute
public class LogActionFilter : IActionFilter

Target 3:

OnActionExecuting(ActionExecutingContext filterContext)
OnActionExecuted(ActionExecutedContext filterContext)
OnResultExecuting(ResultExecutingContext filterContext)
OnResultExecuted(ResultExecutedContext filterContext)
public class LogActionFilter : ActionFilterAttribute
public class LogActionFilter : IActionFilter

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