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**MICROSOFT 70-488 EXAM QUESTIONS & ANSWERS**

**Exam Name: Developing Microsoft SharePoint Server 2013 Core Solutions**

**General****QUESTION 1****DRAG DROP**

You develop a reusable workflow on a development site by using SharePoint Designer. The workflow must be made available to a test site on a different SharePoint environment. You need to deploy and start the workflow on the test site by using Microsoft Visual Studio 2012. 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.)

	Answer Area
Use SharePoint Designer to save the workflow as a .wsp solution package.	
Use Visual Studio to activate the workflow feature.	
Use Visual Studio to activate the solution package.	
Upload the solution package to the desired site.	
Import the solution package into Visual Studio.	
Use Visual Studio to export the workflow as a .wsp solution package.	

A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

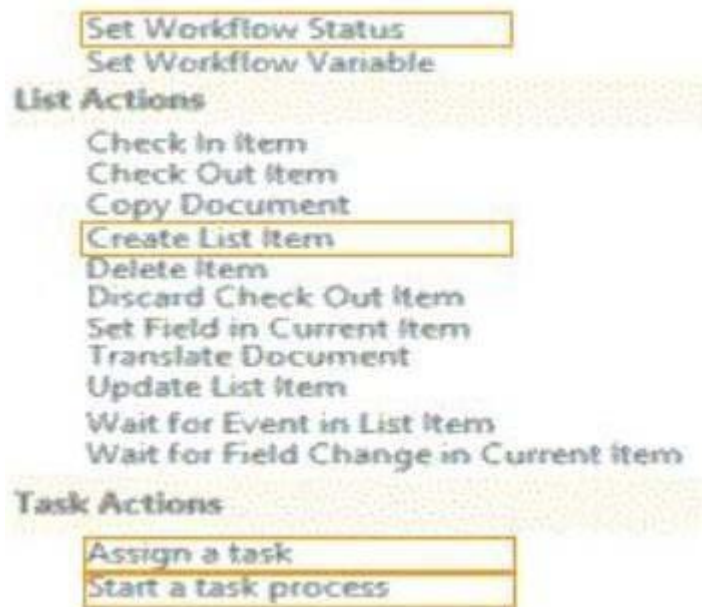
**Explanation/Reference:**

	Answer Area
Use Visual Studio to activate the workflow feature.	Use Visual Studio to export the workflow as a .wsp solution package.
Use Visual Studio to activate the solution package.	Use SharePoint Designer to save the workflow as a .wsp solution package.
Upload the solution package to the desired site.	Import the solution package into Visual Studio.

## QUESTION 2

### HOTSPOT

A company's IT department implements a Help Desk Ticketing system that involves workflow development by using SharePoint Designer and InfoPath. The Help Desk Ticket workflow involves multiple steps and tasks that have serial approvals of multiple users and groups with custom task email messages. The Approver accidentally rejects a workflow step, and the workflow has stopped. The Approver then corrects the step. You need to continue the workflow to reflect the updated approval. Which activity should you use? (To answer, select the appropriate action from the list of actions in the answer area.)



A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



### QUESTION 3

You plan to create a workflow design by using Microsoft Visio 2013 and then import the design into SharePoint Designer 2013. You need to ensure that you have repetition capability. Which shape should you use?

- A. Stage
- B. Assign a Task
- C. Step
- D. Loop

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 4

You plan to create a SharePoint Business Process Automation (BPA) project. You need to process items for approval with the least amount of developer effort. Which tool should you use?

- A. Remote Event Receiver
- B. Out-of-the-box workflow
- C. SharePoint Designer workflow
- D. Work Item Timer Job

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

Contoso uses a SharePoint site that contains subsites. Each subsite represents different projects. Each project site is based on a team site template and stores information and documents. Contoso has five teams: Manufacturing, Sales, Administration, Marketing, and IT. You must create a different look and feel for each team site such that any visitor to the site can identify the team by looking at the colors, fonts, and background image of the site. You need to create a different look and feel for each team. What should you do? (Each correct answer presents part of the complete solution. Choose all that apply.)

- A. Open Contoso Corporate Microsoft PowerPoint Slides Template, save the template as ContosoCorporate.master, and then upload it to the Theme Gallery.
- B. From SharePoint Designer, go to Content Types. Right-click and select Content Type Settings.
- C. Get a site background image for each team and upload it to the site collection images library. Then create a new master page for each team site by using the Master Page Gallery. Set the version to 15.
- D. From the Web Designer Galleries, choose Composed Looks and create a new item for each team site. Specify the title, URL of the master page, theme, background image, and font schema file.
- E. On the Site Settings page in the Look and Feel section, choose Change the look.
- F. Create a new font XML schema with a font specification for each team.

**Correct Answer:** BCD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

A user deploys a sandbox solution. The user cannot activate the solution. You need to ensure that the user can activate the solution. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Grant permission to the user to execute the solution.
- B. Grant permission to the user to activate the solution.
- C. Start the Microsoft SharePoint Foundation Sandboxed Code Service.
- D. Start the PerformancePomt Services.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 7**

**DRAG DROP**

Adventure Works uses SharePoint for managing project-related documents, information sharing, and tasks management. You develop a SharePoint-hosted app named TasksViewer and deploy it to the Corporate Catalog Site. This app is used only by the Project Management Office (PMO) group. Only users in the PMO group have permission to view and add this app to various project sites. The Adventure Works IT department creates a security group in Active Directory for the PMO. Currently all of the apps are visible to the Everyone group. You need to ensure that only users in the PMO group can see the app. Which five 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.)

	Answer Area
Remove the Everyone group from the permissions and then add the PMO group with Read permission.	
From Central Administration, select the <b>Apps</b> link and then open the Corporate Catalog site.	
From Quick Launch, select the <b>Apps for SharePoint</b> link.	
From Quick Launch, select the <b>Apps for Office</b> link.	
Open the context menu, select the <b>Ellipsis</b> button, select the <b>Shared With</b> link, and then select the <b>Advanced</b> link.	
Select the <b>Stop Inheriting Permissions</b> button.	

A.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



Answer Area	
Remove the Everyone group from the permissions and then add the PMO group with Read permission.	Open the context menu, select the <b>Ellipsis</b> button, select the <b>Shared With</b> link, and then select the <b>Advanced</b> link.
	From Quick Launch, select the <b>Apps for Office</b> link.
	Select the <b>Stop Inheriting Permissions</b> button.
	From Central Administration, select the <b>Apps</b> link and then open the Corporate Catalog site.
	From Quick Launch, select the <b>Apps for SharePoint</b> link.

#### QUESTION 8

Adventure Works uses SharePoint to store product and order information. Product managers visit the Products list to see the status of each product. They request a feature that will allow them to easily see the recent and old product orders without opening the Products list. The products orders page is located at /sitepages/productorders.aspx, and the product order history page is located at /sitepages/productordershistory.aspx. Both pages require a query string parameter named ProductID . You need to add custom actions to the Products list by using the least amount of administrative effort. What should you do?

- A. Add an empty element to the SharePoint project. Add a <CustomAction> tag, set the Location element to EditControlBlock, and then use the <UrlAction> tag for a redirect to the custom page.
- B. Create a Windows Application and add a reference to Microsoft.SharePoint.Portal.CustomActions.dll and use the SPCustomActions class to add a custom action.
- C. Open the site in SharePoint Designer. Create a custom List Item Display Template and then apply it to the Products List View Web Part.
- D. Create a visual Web Part. Use a grid view with a template column and hyperlink, and databind the Products list. Add the Web Part to the allItems.aspx page of the Products list.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

**DRAG DROP**

You have an app named TaskManager published at <http://sharepoint.contoso.com/apps>. You need to remove the app and ensure that users will no longer be able to use the app by using Windows PowerShell cmdlets. What should you do? (To answer, drag the appropriate code segments to the correct location or locations 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.)

The screenshot shows a drag-and-drop interface. On the left, there is a list of PowerShell cmdlets in yellow boxes:

- Uninstall-SPAppInstance -Identity \$instance
- Disable-SPFeature -Identity \$instance
- Delete-SPAppInstance -Identity \$instance
- Remove-SPServiceApplication \$instance
- Get-SPWebApplication
- Get-SPAppInstance -Web

On the right, there is an 'Answer Area' with a text box containing the following text:

```
$instance =  
  
http://sharepoint.contoso.com/apps |  
where {$_.Title -eq 'TaskManager'}
```

A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



## QUESTION 10

You must select an app model to deploy apps to an Office 365 small business tenant. The business logic of the apps is located in a remote web application. What should you do?

- A. Create a SharePoint-hosted app. Implement the business logic by using JavaScript.
- B. Develop provider-hosted apps and integrate data sources with the business logic by using OData.
- C. Deploy the business logic to the host web by using a Full Trust SharePoint solution.
- D. Develop an OData service provider infrastructure and publish the provider to the \_layouts directory.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 11

**DRAG DROP**

You need to create workflows for your business processes by using the least amount of development effort. Which four 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.)

Answer Area	
Verify and use the out-of-the-box workflows for the objective.	
Verify and use SharePoint Designer workflows without creating any custom activities in Visual Studio.	
Import Activity Designer from the Windows Azure websites.	
Use Microsoft Visual Studio 2012 to create the workflow custom activities.	
Use SharePoint Designer to create a workflow definition by using the activities.	

A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

QUESTION	
<p>Verify and use the out-of-the-box workflows for the objective.</p>	<p><b>Answer Area</b></p> <div>Import Activity Designer from the Windows Azure websites.</div> <div>Use Microsoft Visual Studio 2012 to create the workflow custom activities.</div> <div>Use SharePoint Designer to create a workflow definition by using the activities.</div> <div>Verify and use SharePoint Designer workflows without creating any custom activities in Visual Studio.</div>

## QUESTION 12

### DRAG DROP

You work on a SharePoint Enterprise Content Management (ECM) project. You develop the Litware Document Approval workflow that enables a group of people to review, approve, or reject documents and document changes. You need to assign the Litware Document Approval workflow to the Document content type. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations 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.)

"Tasks"

"WF History"

Lists["Documents"]

spWeb.Lists["Tasks"]

CreateListAssociation

ContentTypes["Document"]

spWeb.Lists["WF History"]

CreateWebContentTypeAssociation

### Answer Area

```
public override void FeatureActivated
(SPFeatureReceiverProperties properties)
{
    SPWeb spWeb = (SPWeb)properties.Feature.Parent;
    var document =

        spWeb. ;

    SPWorkflowTemplate wfTemplate =
        spWeb.WorkflowTemplates.GetTemplateByName
            ("Litware Document Approval", spWeb.Locale);
    var wfTaskList = ;
    var wfHistoryList = ;

    SPWorkflowAssociation wfAssociation =

        SPWorkflowAssociation.

        (wfTemplate, "Document Approval", wfTaskList, wfHistoryList);
    document.WorkflowAssociations.Add(wfAssociation);
    document.Update();
}
```

A.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

```

public override void FeatureActivated
(SPFeatureReceiverProperties properties)
{
    SPWeb spWeb = (SPWeb)properties.Feature.Parent;
    var document =
        spWeb. ContentTypes["Document"]
        ;

    SPWorkflowTemplate wfTemplate =
        spWeb.WorkflowTemplates.GetTemplateByName
            ("Litware Document Approval", spWeb.Locale);
    var wfTaskList = "Tasks"
        ;
    var wfHistoryList = "WF History"
        ;

    SPWorkflowAssociation wfAssociation =
        SPWorkflowAssociation. CreateWebContentTypeAssociation
            (wfTemplate, "Document Approval", wfTaskList, wfHistoryList);
    document.WorkflowAssociations.Add(wfAssociation);
    document.Update();
}

```

### QUESTION 13

#### DRAG DROP

You create a solution to access data contained in SharePoint by using a client-side object model (CSOM). How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations 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.)



clientContext

collListItem

ExecuteQuery

Load

ExecuteQueryAsync

### Answer Area

```

ClientContext [ ] = new ClientContext(siteUrl);

clientContext.Credentials = new NetworkCredential("userid", "password", "domain");
SP.List oList = clientContext.Web.Lists.GetByTitle("Dev");
CamlQuery q = new CamlQuery();
q.ViewXml = @"<View/>";

ListItemCollection [ ] = oList.GetItems(q);

clientContext.[ ](collListItem);

clientContext.[ ]();

foreach (ListItem oListItem in collListItem)
{
    ...
}

```

A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



```
ClientContext clientContext = new ClientContext(siteUrl);
clientContext.Credentials = new NetworkCredential("userid", "password", "domain");
SP.List oList = clientContext.Web.Lists.GetByTitle("Dev");
CamlQuery q = new CamlQuery();
q.ViewXml = @"<View/>";

ListItemCollection collListItem = oList.GetItems(q);

clientContext.Load(collListItem);

clientContext.ExecuteQuery();

foreach (ListItem oListItem in collListItem)
{
    ...
}
```

## QUESTION 14

Adventure Works uses a SharePoint publishing site to host their public-facing website at <http://www.adventureworks.com>. The website gives external users the ability to register and sign in to the site to buy Adventure Works products. You notice that publicly registered users see the SharePoint ribbon. You need to ensure that the SharePoint ribbon is available only to content authors and administrators. What should you do?

- A. Open the current site master page in SharePoint Designer, place the SharePoint:SPSecurityTrimmedControl control around the div tag with the s4-ribbonrow ID. Set the PermissionsString to ManageSubWeb.
- B. Open the current site master page in SharePoint Designer, find a div tag with the s4-ribbonrow ID, and then remove all of the contents of the div.
- C. Open the current site master page in SharePoint Designer and then place the SharePoint:SPSecurityTrimmedControl control around the div tag with the s4-ribbonrow ID. Set the PermissionsString to AddAndCustomizePages.
- D. In the SharePoint project, add an Empty Element and then use the <HideCustomAction> tag to hide the ribbon.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 15

You have an app named TaskManagerApp that is published at <http://sharepoint.contoso.com/apps>. You need to remove the app and ensure that users will no longer be able to use the app. Which Windows PowerShell cmdlets should you run?

- A. `$instance = Get-SPAppInstance  
Web http://sharepoint.contoso.com/apps | where {$_.Title -eq 'TaskManagerApp'}  
Uninstall-SPAppInstance -Identity $instance`
- B. `$instance = Get-SPWebApplication  
http://sharepoint.contoso.com/apps  
Uninstall-SPAppInstance -Identity $instance`
- C. `$instance = Get-SPAppInstance  
-Web http://sharepoint.contoso.com/apps | where {$_.Title -eq 'TaskManagerApp'}  
Disable-SPFeature -Identity $instance -URL http://sharepoint.contoso.com/apps`
- D. `$instance = Get-SPWebApplication  
http://sharepoint.contoso.com/apps  
Remove-SPServiceApplication $instance`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 16**

You create a cloud-hosted SharePoint app. You must make the app available in the SharePoint Store for customers to install on their host webs. You need to keep the style and navigation of the app the same as the host web of the app after it is installed by any customer. What should you do?

- A. Add a reference to SP.UI.Controls.js on the host web. Pass the AppUrl parameter to the host web.  
Apply branding to the host web.
- B. Copy the CSS file from the app to the host web. Run the Chrome control to convert the CSS file to the host web format. Apply the styles contained in the CSS file to the host web.
- C. Use a Chrome control to find the differences in the styles between the host web and the app.  
Resolve all of the differences by using JavaScript.
- D. Add a reference to the SP.UI.Controls.js file located in the new /\_layouts/15 directory. Pass the HostUrl parameter to the start page of the app. Use the Chrome control in JavaScript.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17****HOTSPOT**

You develop an autohosted app for SharePoint. The app will access SharePoint data in the host web. You need to configure the minimum required data access permissions for the app. How should you configure permissions in the app manifest? (To answer, select the appropriate option from each drop-down list in the answer area.)

Scope	Permissions
<input type="text"/>	<input type="text"/>

Scope	Permissions
<input type="text"/>	<input type="text"/>
Business Connectivity Services (BC)	FullControl
Search	Manage
Web	Read
Workflow	Write

A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Scope	Permissions
<input type="text"/>	<input type="text"/>
Business Connectivity Services (BC)	FullControl
Search	Manage
<b>Web</b>	<b>Read</b>
Workflow	Write

## Case study 1

### QUESTION 1

Case Study: 1

Consolidated Messenger

Background

Business Scenario

You are the lead architect, developer, and web administrator of SharePoint 2013 for your company, Consolidated Messenger. Consolidated Messenger is a national company with hundreds of franchises. Consolidated Messenger focuses on bicycle-based courier services in metropolitan areas. Consolidated Messenger sells franchises to franchisees. Franchisees have three user types:

User	Role
Franchise Manager	Responsible for managing the franchise
Franchise Employee	Responsible for managing accounts and setting pick-up and drop-off locations for couriers
Courier	Responsible for picking-up and dropping off packages

Technical Scenario

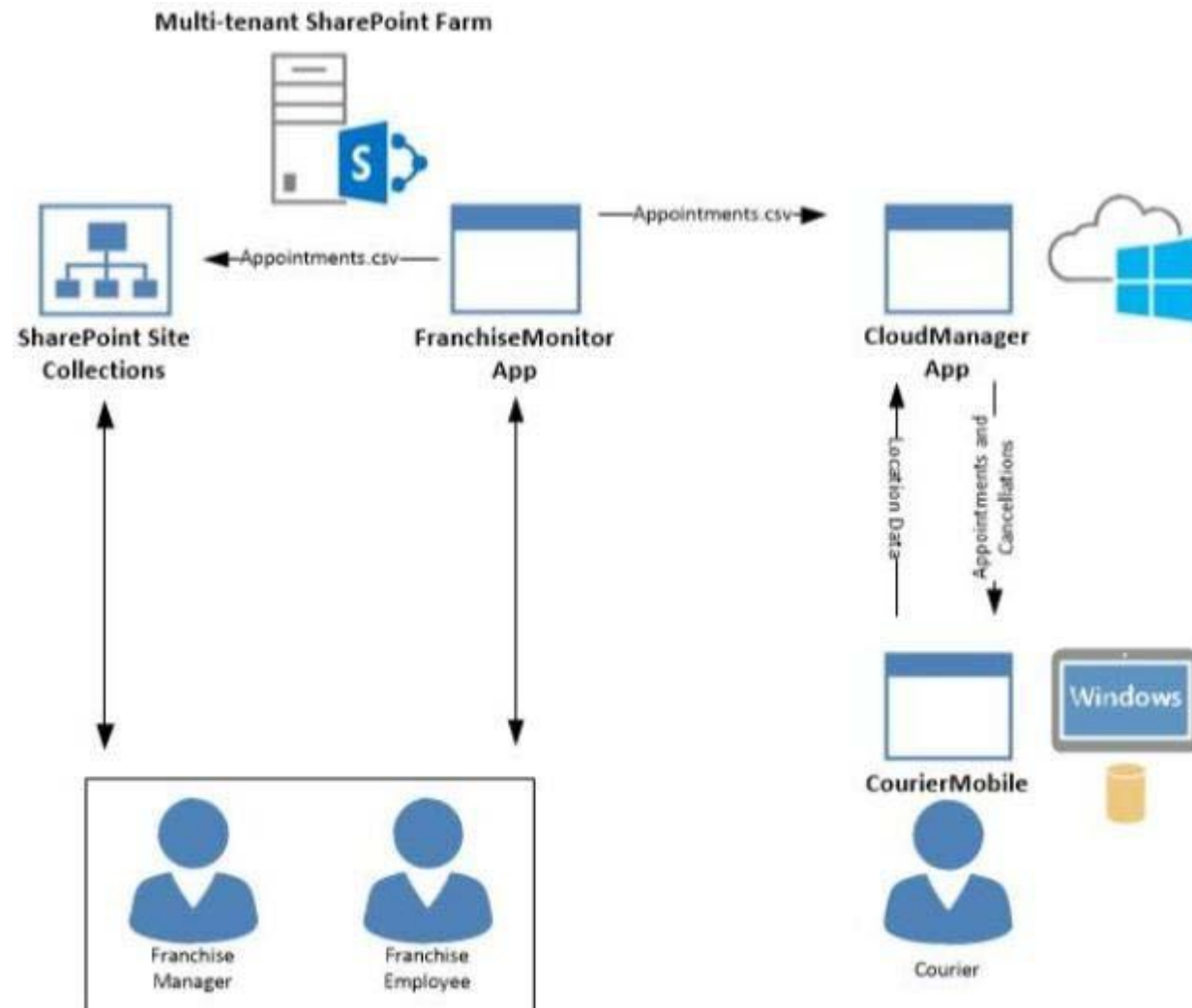
When a franchisee purchases a franchise, they are provided with:

- Access to Consolidated Messenger's SharePoint 2013 multi-tenant farm located at [https:// sp.consolidatedmessenger.com](https://sp.consolidatedmessenger.com)
- Access to a Customers list in the Corporate site collection, named CorporateSiteCollection, which includes a list of all Customers across all franchisees
- A single site collection for each franchisee, named FranchiseeSiteCollection · An unlimited number of customer subsites for each franchisee ·

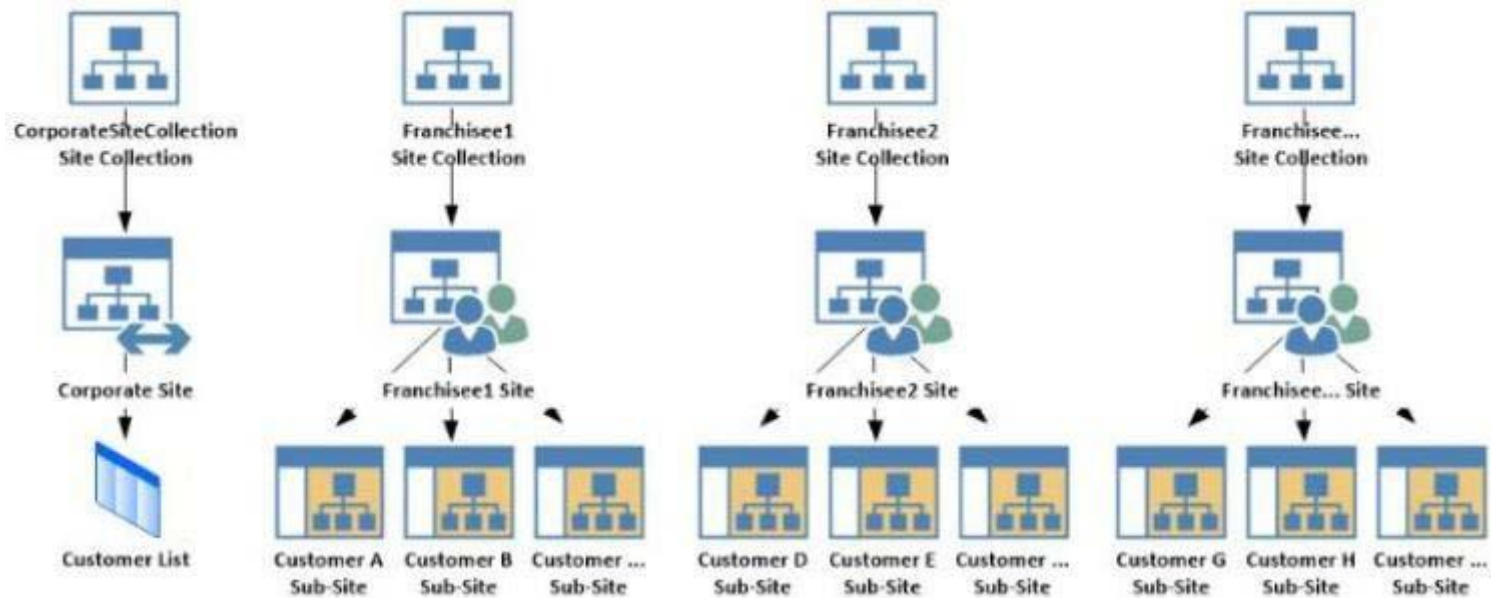
Consolidated Messenger has funded the creation of three apps.

App Name	Purpose
FranchiseMonitor	Used by franchisees from their franchise locations to monitor the progress of the bicycle couriers
CourierMobile	Used by bicycle couriers to perform their day-to-day function of receiving and delivering packages
CloudManager	Used to perform management of bicycle couriers, their routes, and their schedules

Solution Architecture



Site Collection Structure



### SharePoint Farm Design

My Sites are not created for each Franchisee unless they are requested.

Business Requirements

User	SharePoint Access
Franchise Manager	<ul style="list-style-type: none"> <li>• Franchise Managers are site collection administrators for each franchise.</li> <li>• Franchise Managers may only access their site collection settings and not the settings of the web application.</li> <li>• Franchise Managers must be able to add users to a site in a People Picker control based on claims.</li> <li>• Franchise Managers must be able to search for claims by using the type-in control of the claims picker. The claims must be displayed by using a flattened structure.</li> <li>• Franchise Managers may access only their site collection settings and not the settings of the web application.</li> </ul>
Franchise Employee	<ul style="list-style-type: none"> <li>• Franchise employees are customer subsite owners for each franchise.</li> <li>• Franchise employees must be able to read from the Customers list in the CorporateSiteCollection.</li> <li>• Franchise employees must have complete control over the customer subsites that is assigned to the the franchise.</li> </ul>
Courier	<ul style="list-style-type: none"> <li>• No SharePoint access</li> </ul>

## Technical Requirements

Each Franchise site collection must include a SharePoint document library to store CSV files.

## FranchiseMonitor App

### Application Design

Franchise employees use Microsoft Excel 2013 to create a list of pick-up and drop-off locations for each bicycle courier for each day. The spreadsheet is named Appointments.csv.

## Business Requirements

The FranchiseMonitor app must allow a Franchise employee to upload Appointments.csv to a SharePoint document library in each Franchisee site collection, and send Appointments.csv to the CloudManager app.

## Technical Requirements

- The FranchiseMonitor app must display the courier's location on the bicycle courier's microfeed on the SharePoint farm if the courier has remained stationary for more than three minutes.
- The FranchiseMonitor app must be listed on the Site Contents page of the host web.
- The FranchiseMonitor app must use claims-based authentication, once launched, to authenticate the franchisee against an API provided by Margie's Travel.
- The FranchiseMonitor app must be deployed to all site collections by the SharePoint administrator.
- The FranchiseMonitor app must be immediately available to be installed on websites within the tenancy on a website-by-website basis to any tenant contained in the SharePoint farm.
- The FranchiseMonitor app must be able to create lists within SharePoint to store records of the CSV files so that they may be sent to the

CloudManager app.

CourierMobile App

Application Design

- Each bicycle courier for each franchise is provided a Microsoft Surface Pro device with LTE. Most bicycle couriers do not return their Microsoft Surface Pro devices back to their franchise locations nightly.
- The CourierMobile app runs on the bicycle courier's Microsoft Surface Pro device. · Margie's Travel provides an API to enable external developers to authenticate by using OAuth and claims-based authentication. Many couriers are members of Margie's Travel.
- The CourierMobile app receives Microsoft Outlook appointments and Outlook appointment cancellations from the CloudManager app. The appointments include the address of the location for pick-up or drop-off.

Business Requirements

- The CourierMobile app must display a Bing map to display route data when Outlook appointments or appointment cancellations are received. · The CourierMobile app must capture the location of the Microsoft Surface Pro device on a regular interval. This data must be captured regardless of whether the device has connectivity.
- The CourierMobile app must be able to connect to the SharePoint Customers list and verify whether the account belongs to the franchisee to avoid pickups or deliveries to customers that do not belong to the franchisee. When the CourierMobile app accesses the Customers list, it must only read its contents with the minimum permissions necessary.

Technical Requirements

- The CourierMobile app must provide the ability to authenticate by using the courier's Microsoft account or the Margie's Travel API. · The CourierMobile app must include a custom sign-in page that includes branding from Consolidated Messenger and Margie's Travel, based on the authentication provider selected by the user.
- The CourierMobile app must be able to capture more than 30 million data points of location data daily as they occur and upload the location data to the cloud when connected to the Internet.

CloudManager App

Application Design

CloudManager processes two sets of data:

- Updates to the list of appointments received from the FranchiseMonitor app · Geo-location data received from the CourierMobile app

Requirements

The CloudManager app must implement business logic that parses Appointments.csv and geo-location data and sends Appointments or Appointment cancellations to the CourierMobile app.

Technical Requirements

- The CloudManager app must elastically scale to capture courier location data as the number of bicycle couriers increases or decreases.
- The CloudManager app must process bicycle courier location data from a data store capable of storing more than 30 million items.

Solution Code

MyClaimsProvider.es



```

CP01 [SharePointPermissionAttribute(SecurityAction.LinkDemand, ObjectModel = true)]
CP02 [SharePointPermissionAttribute(SecurityAction.InheritanceDemand, ObjectModel =
true)]
CP03
CP04     public class MyClaimsProvider : Microsoft.SharePoint.Administration.Claims.SPCLa
imProvider
CP05     {
CP06         public abstract String Name;
CP07
CP08         protected abstract void FillSchema(...);
CP09         protected abstract void FillClaimTypes(...);
CP10         protected abstract void FillClaimValueTypes(...);
CP11         protected abstract void FillEntityTypes(...);
CP12
CP13         public abstract bool SupportsResolve;
CP14         protected abstract void FillResolve(...);
CP15         protected abstract void FillResolve(...);
CP16
CP17         public abstract bool SupportsSearch;
CP18         protected abstract void FillSearch(...);
CP19
CP20     }

```

AppManifest.xml for Franchise Monitor app

```

AM01 <?xml version="1.0" encoding="utf-8" ?>
AM02 <App xmlns="http://schemas.microsoft.com/sharepoint/2012/app/manifest"
AM03     ProductID="{4a07f3bd-803d-45f2-a710-b9e944c3396e}"
AM04     Version="1.0.0.0"
AM05     SharePointMinVersion="15.0.0.0"
AM06     Name="FranchiseMonitor"
AM07 >
AM08   <Properties>
AM09     <Title>Franchise Monitor App</Title>
AM10     <StartPage>~remoteAppUrl/Home.aspx?{StandardTokens}</StartPage>
AM11   </Properties>
AM12
AM13   <AppPrincipal>
AM14     <RemoteWebApplication ClientId="1ee82b34-7c1b-471b-b27e-ff272accd564" />
AM15   </AppPrincipal>
AM16
AM17   <AppPermissionRequests>
AM18     <AppPermissionRequest Scope="http://sharepoint/content/sitecollection/web/
AM19     list" Right="Write"/>
AM20   </AppPermissionRequests>
AM20 </App>

```

You need to ensure that the CourierMobile app determines whether the franchisee owns the account. What should you do?

- A. Use OAuth and App only security. Request the Read right from the http://sharepoint/content/ sitecollection/web/list scope URI.
- B. Use OAuth and App+User security. Request the Read right from the http://sharepoint/content/ sitecollection scope URI.
- C. Use SPSecurity.RunWithElevatedPrivileges to connect to SharePoint and read from the Accounts list in the site collection.
- D. Use the SharePoint user credentials of the bicycle messenger to connect to SharePoint and read from the Accounts list in the site collection.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 2

You need to set the appropriate permissions for the franchise employees' customer list and customer subsite access. What should you do?

- A. Add franchise employees to the Members group in the CorporateSiteCollection site collection. Break inheritance at the franchisee subsite level. Create a custom role definition at the franchisee subsite level. Add franchise employees to the custom role.
- B. Create a custom role definition in the CorporateSiteCollection site collection with Limited Access to the Customers list. Add franchise employees to the custom role at the CorporateSiteCollection site collection. Break inheritance at the subsite level. Add franchise owners to the Owners group at the subsite level.
- C. Create a custom role definition in the CorporateSiteCollection site collection with Limited Access to the Customer list. Add franchise employees to the custom role. Allow full inheritance of the role definition and permissions at the site level.
- D. Add franchise employees to the Visitors group in the CorporateSiteCollection site collection. Break inheritance at the franchisee subsite level. Create a custom role definition at the subsite level with Full Control permissions. Add franchise employees to the custom role.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 3

You need to meet the requirements for data storage for the CourierMobile app and the CloudMananger app. Which technologies should you use? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Windows Azure SQL Database
- B. SharePoint content database
- C. Secure Store
- D. SQL Server Express LocalDB
- E. SharePoint list

**Correct Answer:** AD

**Section:** (none)

**Explanation**

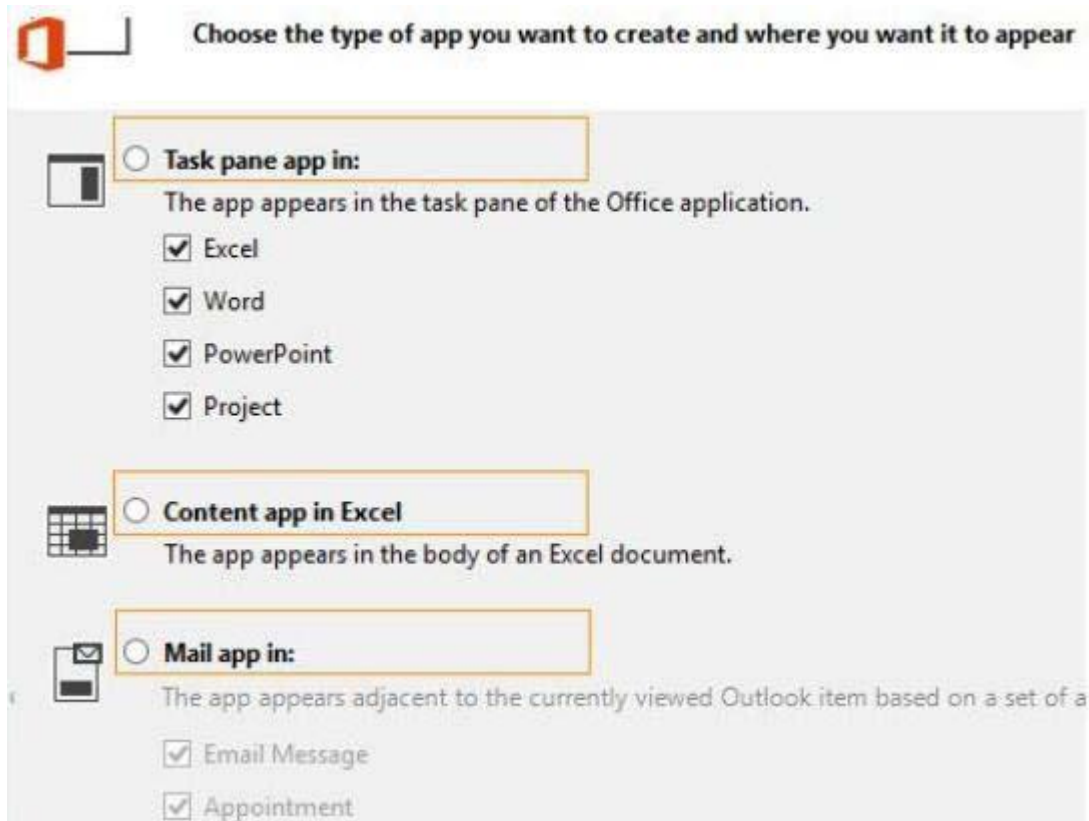
**Explanation/Reference:**

## QUESTION 4

HOTSPOT

You need to select the app experience for the CourierMobile app. In the App for Office 2013 dialog window, which configuration option should you

select? (To answer, select the appropriate configuration option in the answer area.)



The screenshot shows the 'Choose the type of app you want to create and where you want it to appear' dialog box. It features three radio button options, each with a corresponding icon and a list of applications. The first option, 'Task pane app in:', is selected and highlighted with an orange box. It includes a task pane icon and a list of applications: Excel, Word, PowerPoint, and Project, all of which are checked. The second option, 'Content app in Excel', is also highlighted with an orange box and includes an Excel grid icon. The third option, 'Mail app in:', is highlighted with an orange box and includes a mail icon and a list of applications: Email Message and Appointment, both of which are checked.

**Choose the type of app you want to create and where you want it to appear**

☒ **Task pane app in:**  
The app appears in the task pane of the Office application.  
☒ Excel  
☒ Word  
☒ PowerPoint  
☒ Project

☐ **Content app in Excel**  
The app appears in the body of an Excel document.

☐ **Mail app in:**  
The app appears adjacent to the currently viewed Outlook item based on a set of a  
☒ Email Message  
☒ Appointment


A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

 Choose the type of app you want to create and where you want it to appear

☐ Task pane app in:

The app appears in the task pane of the Office application.

- ☒ Excel
- ☒ Word
- ☒ PowerPoint
- ☒ Project

☐ Content app in Excel

The app appears in the body of an Excel document.

☐ Mail app in:

The app appears adjacent to the currently viewed Outlook item based on a set of a

- ☒ Email Message
- ☒ Appointment

#### QUESTION 5

You need to create a custom sign-in page to allow the users of the FranchiseMonitor app to authenticate against SharePoint and Margie's Travel API. What should you do?

- A. Create an app for SharePoint. Set the trust level to Sandbox solution. Create an application page that writes a cookie named FedAuth. Deploy the app and configure the Sign In Page URL in Central Administration Authentication Provider for the zone.
- B. Create an app for SharePoint. Set the trust level to Farm solution. Create an application page that writes a cookie named FedAuth. Deploy the app and configure the Sign In Page URL in Central Administration Authentication Provider for the zone.
- C. Create an app for SharePoint. Set the trust level to Farm solution. Create an application page that writes a cookie named ASPXAUTH. Deploy the app and configure the Sign In Page URL in Central Administration Authentication Provider for the zone.
- D. Create an app for SharePoint. Set the trust level to Sandbox solution. Create an application page that writes a cookie named ASPXAUTH. Deploy the app and configure the Sign In Page URL in Central Administration Authentication Provider for the zone.

**Correct Answer: B**

Section: (none)

Explanation

Explanation/Reference:

## QUESTION 6

### HOTSPOT

You need to design the FranchiseMonitor app to meet the requirements. What should you do? (To answer, select the appropriate option from each drop-down list in the answer area.)

Create the **CourierManagerApp** app as an  .

Design the **CourierManagerApp** app UI with a/an  app shape.

Create the **CourierManagerApp** app as an  .

App for Office 2013  
App for SharePoint 2013

Design the **CourierManagerApp** app UI with a/an  app shape.

Part  
UI Custom Action  
Immersive Full Page

A.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Create the **CourierManagerApp** app as an

App for Office 2013  
App for SharePoint 2013

Design the **CourierManagerApp** app UI with a/an  app shape.

Part  
UI Custom Action  
Immersive Full Page

## Case study 2

### QUESTION 1

Case Study: 2

SharePoint

A client asks you to create a basic task tracking app for SharePoint. The app will be hosted remotely. The users will be able to set up task lists, mark tasks as completed, and manage their task lists.

Business Requirements

The client specifies the following business requirements:

- Users can create task lists.
- Users can retrieve task lists.
- Project leads can remove task lists.
- Users can modify task lists.
- Only users with a paid license can use the app.
- Tasks can be tagged with the programming language being used. Task list items may be tagged only with the following terms: C++, C#, and JavaScript.
- Navigational links across the top should be driven by the term store and use URLs that will improve search engine ranking.
- Set a system message that all users can access without the need to query a data source.
- Remote users will authenticate to the app by using a username and password.
- During development, the app will be tested by deploying to a development SharePoint site at <http://sharepoint.contoso.com/tasks>.
- When completed, the app will be published to the Microsoft Store as a paid app.

Existing Site Configuration

The table below shows the current site configuration for the client's SharePoint site.

Site/Site Collection	Description
<a href="http://contoso-public.sharepoint.com">http://contoso-public.sharepoint.com</a>	Public-facing site
<a href="https://contoso.sharepoint.com/tasks">https://contoso.sharepoint.com/tasks</a>	Development site for tasks app
<a href="https://contoso.sharepoint.com/search">https://contoso.sharepoint.com/search</a>	Search site
<a href="https://contoso-my.sharepoint.com">https://contoso-my.sharepoint.com</a>	Personal My Site

Task List Design

The app should create a SharePoint list named Tasks with the following attributes:

Field Name	Data Type	Contents
Department	Text	
Description	Text	
Hours	Number	
Completed	Radio Button	"Yes", "No"



## User Groups

SharePoint groups will be used to manage access to features of the app.

Group	Description
Admin	Admin can perform all tasks including creating projects, assigning users to projects, and maintaining all task lists.
Project Leads	Project leaders are the only members who have the ability to delete tasks.
Users	Users have the ability to add and manage tasks in their own projects, but cannot delete tasks.

## Task Display

The app should retrieve the Tasks list and display the contents on a webpage 20 tasks at a time.

## Technical Requirements

You have the following requirements:

- Query the Microsoft apps licensing service to validate the license.
- Package and configure the app.
- Configure navigation to use taxonomy-based navigation automatically generated by SharePoint.
- Utilize CSOM to retrieve data from the SharePoint site.
- Implement the system message by using a property bag that uses the key named SystemMessage.
- Implement and configure the credential store.
- The app will be internally tested for at least one month to track and fix any run-time errors.

## Pending Issues

When you deploy the app from Visual Studio 2012, you receive the error: "Error occurred in deployment step 'Install app for SharePoint': Sideloaded apps are not enabled on this site." Application Structure

Relevant portions of the app files are shown below. (Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)

LicesnseValidation.es

```

LV01  protected bool IsLicenseValid(Guid productId, ClientContext context)
LV02  {
LV03      string token = "";
LV04      ClientResult<AppLicenseCollection> licenseCollection =
        Utility.GetAppLicenseInformation(context, productId);
LV05      context.Load(context.Web);
LV06      context.ExecuteQuery();
LV07      foreach (AppLicense license in licenseCollection.Value)
LV08      {
LV09          token = license.RawXMLLicenseToken;
LV10          break;
LV11      }
LV12      VerificationServiceClient service = null;
LV13      VerifyEntitlementTokenResponse result = null;
LV14      VerifyEntitlementTokenRequest request =
        new VerifyEntitlementTokenRequest();
LV15      request.EntitlementToken = token;
LV16      service = new VerificationServiceClient();
LV17      result = service.VerifyEntitlementToken(request);
LV18      if (result != null && result.AssetId != null)
LV19
LV20      }
LV21      return false;
LV22  }

```

SystemMessage.es

```

SM01 public void SetSystemMessage(string message)
SM02 {
SM03     string url = "https://sharepoint.contoso.com/tasks";
SM04     string property = "SystemMessage";
SM05     var context = new ClientContext(url);
SM06     NetworkCredential credentials =
SM07     new NetworkCredential("", "", "");
SM08     context.Credentials = credentials;
SM09     Site site = context.Site;
SM10     context.Load(site);
SM11     Web web = site.RootWeb;
SM12     context.Load(web, w => w.AllProperties);
SM13     context.ExecuteQuery();
SM14     PropertyValues propertyValues = web.AllProperties;
SM15     context.Load(propertyValues);
SM16     web.AllProperties[property] = message;
SM17     web.Update();
SM18 }

```

ImplementTaskList.es

```
IL01 protected void ImplementTaskList()
IL02 {
IL03     ClientContext context = new ClientContext("http://sharpoing.contoso.com/tasks");
IL04     List list = context.Web.Lists.GetByTitle("Announcements");
IL05     Field department =
IL06         list.Fields.AddFieldAsXml("<Field DisplayName='Department' Type='Text' />",
IL07         true,
IL08         AddFieldOptions.DefaultValue);
IL09     FieldText departmentField = context.CastTo<FieldText>(department);
IL10     departmentField.Update();
IL11     Field description =
IL12         list.Fields.AddFieldAsXml("<Field DisplayName='Department' Type='Text' />",
IL13         true,
IL14         AddFieldOptions.DefaultValue);
IL15     FieldText descriptionField = context.CastTo<FieldText>(description);
IL16     descriptionField.Update();
IL17     Field hours =
IL18         list.Fields.AddFieldAsXml("<Field DisplayName='Hours' Type='Number' />",
IL19         true, AddFieldOptions.DefaultValue);
IL20     FieldNumber hoursField = context.CastTo<FieldNumber>(hours);
IL21     hoursField.Update();
IL22
IL23     context.ExecuteQuery();
IL24 }
```

RetrieveTaskList.es



```
RT01 protected void RetrieveTaskList()  
RT02 {  
RT03     ClientContext context = new  
RT04         ClientContext("https://sharepoint.contoso.com/tasks");  
RT05     List taskList = context.Web.Lists.GetByTitle("Tasks");  
RT06     CamlQuery query = CamlQuery.CreateAllItemsQuery(20);  
RT07     Microsoft.SharePoint.Client.ListItemCollection  
RT08         tasks = taskList.GetItems(query);  
RT09     context.Load(tasks);  
RT10     context.ExecuteQuery();  
RT11     foreach (Microsoft.SharePoint.Client.ListItem task in tasks)  
RT12     {  
RT13         ...  
RT14     }  
RT15 }
```

CanDeleteTask.es

```
CD01 protected bool CanDeleteTask(string targetEmail)  
CD02 {  
CD03     ClientContext context = new ClientContext("https://sharepoint.contoso.com/  
CD04     tasks");  
CD05     context.ExecuteQuery();  
CD06  
CD07     foreach (User user in members.Users)  
CD08     {  
CD09         if (user.Email == targetEmail)  
CD10         {  
CD11             return true;  
CD12         }  
CD13     }  
CD14     return false;  
CD15 }
```

```
TN01 public void CreateNavigationTermSet()
TN02 {
TN03     ClientContext clientContext = new ClientContext("https://sharepoint.contoso.com/
tasks");
TN04     TaxonomySession session = TaxonomySession.GetTaxonomySession(clientContext);
TN05     taxonomySession.UpdateCache();
TN06     clientContext.Load(session, ts => ts.TermStores);
TN07     clientContext.ExecuteQuery();
TN08     TermStore store = taxonomySession.TermStores[0];
TN09     clientContext.Load(store,
TN10         s => s.Name,
TN11         s => s.WorkingLanguage);
TN12     TermGroup siteCollectionGroup = termStore.GetSiteCollectionGroup
(clientContext.Site, createIfMissing: true);
TN13     TermSet set = siteCollectionGroup.CreateTermSet("Task Terms");
TN14     store.CommitAll();
TN15     clientContext.ExecuteQuery();
TN16
TN17     termSet.IsNavigationTermSet = true;
TN18     termSet.TargetUrlForChildTerms.Value = "~site/Pages/Tasks/Tasks.aspx";
TN19     termStore.CommitAll();
TN20     clientContext.ExecuteQuery();
TN21     NavigationTerm term = termSet.CreateTerm("Programming
Languages", NavigationLinkType.SimpleLink,
TN22         Guid.NewGuid());
TN23     term.SimpleLinkUrl = "https://sharepoint.contoso.com/tasks";
TN24
TN25     term.GetTaxonomyTerm().TermStore.CommitAll();
TN26     clientContext.ExecuteQuery();
TN27 }
```

You need to configure the credential store for the app. Which properties should you configure? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Pin
- B. Windows Password
- C. Windows User Name
- D. Password
- E. User Name

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 2

You need to deploy the package. Which file should you select?

- A. the file ending in .publish
- B. the file ending in .wsp
- C. the file ending in .dll
- D. the file ending in .app

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 3

You need to implement term set navigation. Which code segment should you insert at line TN16?

- A. 

```
NavigationTermSet navigationTerms =  
    NavigationTermSet.GetAsResolvedByWeb(clientContext,  
    termSet, clientContext.Web,  
    "GlobalNavigationTaxonomyProvider");
```

- B. `NavigationTermSet navigationTerms =  
NavigationTermSet.GetAsResolvedByWeb(clientContext,  
termSet, clientContext.Web,  
"GlobalNavigationSwitchableProvider");`
- C. `NavigationTermSet navigationTerms =  
NavigationTermSet.GetAsResolvedByWeb(clientContext,  
termSet, clientContext.Web,  
"CurrentNavigationTaxonomyProvider");`
- D. `NavigationTermSet navigationTerms =  
NavigationTermSet.GetAsResolvedByWeb(clientContext,  
termSet, clientContext.Web,  
"CurrentNavigationSwitchableProvider");`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 4

You need to implement term set navigation. Which code segment should you insert at line TN24?

- A. `NavigationTerm childTerm  
= term.CreateTerm("C++", NavigationLinkType.Root, Guid.NewGuid());`
- B. `NavigationTerm childTerm  
= term.CreateTerm("C++", NavigationLinkType.Default, Guid.NewGuid());`
- C. `NavigationTerm childTerm  
= term.CreateTerm("C++", NavigationLinkType.SimpleLink, Guid.NewGuid());`
- D. `NavigationTerm childTerm  
= term.CreateTerm("C++", NavigationLinkType.FriendlyUrl, Guid.NewGuid());`

**Correct Answer:** D



**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 5**

You need to complete the code at line LV19 to implement the validation of the app license. Which code segment should you use?

- A. 

```
if (result.EntitlementType.ToLower() == "trial")  
{  
    return true;  
}
```
- B. 

```
if (result.EntitlementType.ToLower() == "valid")  
{  
    return true;  
}
```
- C. 

```
if (result.EntitlementType.ToLower() == "paid")  
{  
    return true;  
}
```
- D. 

```
if (result.EntitlementType.ToLower() == "free")  
{  
    return true;  
}
```

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

You receive an error when you deploy the app. You need to resolve the error. What should you do?

- A. Create a deployment package and upload the app to the app catalog in SharePoint.

- B. Enable side-loading of apps in the app manifest.
- C. Deploy the app to <https://contoso-my.sharepoint.com>.
- D. Enable side-loading of apps in the Visual Studio project properties.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## Case study 3

### QUESTION 1

Case Study: 3

Coho Winery

Background

Coho Winery implements a SharePoint farm. They have an intranet site for company employees and an extranet site for their customers. Coho Winery sells products to wholesale and retail customers. Customers must be able to order specific brands and pay directly.

Business Requirements

Site Collection

The company must organize its main enterprise site to have multiple site collections for different wine brands from various regions. Site documents must have a consistent look and feel.

New Features

The first version (1.0.0.0) of the feature must support the addition of newer functionality when the feature is upgraded to version 1.5.0.0.

Technical Requirements

General

- A Document content type named Finance must be created at the site level. It must contain two site columns named Customer Name and Transaction Date.
- The Order Details and Payment Confirmation content types must be derived from the Finance content type.
- Workflows associated with document content types must be initiated when documents are generated.
- When Payment Confirmation documents are generated, a workflow must send a notification to the customer by email.

User Authorization

- A custom role named Whole sale must be created. Wholesale customers must be assigned to this role in order to view the promotions page.
- A custom permission level must be created. This permission level must add the ViewPages permission to the existing base permissions. This permission level must be added to Wholesale user role.
- Anonymous users must be able to browse the site with limited access to resources.
- The web application has been created with anonymous access enabled.
- Users are prompted for credentials when they browse to the site.

Application Lifecycle Management

- Versioning of the solution artifacts must adhere to industry best practices.
- In a future upgrade process, a new site column named Division must be added to the Finance content type programmatically.
- Only one version of an assembly must be available at runtime.
- Code based hot fixes must be deployed directly to the Global Assembly Cache on all SharePoint servers.
- During maintenance periods, content must be available but must not be modified.

Backup and Recovery

- In the event of hardware failure, the SharePoint environment must be restored to the most recent date.
- The backup process must not degrade system performance.

Performance Optimization and Memory Usage

SPSite objects must be removed from memory immediately after the objects go out of scope.

Automation

Windows PowerShell must be used to automate all operations wherever possible.

Application Structure

Relevant portions of the application files are shown below. (Line numbers in the code segments are included for reference only and include a two-character prefix that denotes the specific file to which they belong.)

ContentType.es

```

CT01 public override void
    FeatureActivated(SPFeatureReceiverProperties spFtRcvProperties)
CT02 {
CT03     SPWeb web =
        ((SPSite)spFtRcvProperties.Feature.Parent).RootWeb;
CT04     string financeColumn = "Finance Columns";
CT05     string customerFieldName =
        web.Fields.Add("Customer Name", SPFieldType.Text, true);
CT06
CT07     string transDateFieldName = web.Fields.Add("Transaction
Date", SPFieldType.DateTime, true);
CT08     ...
CT09     string contentTypeGroup = "Finance Content Types";
CT10     SPContentType docContentType =
        web.AvailableContentTypes[SPBuiltinContentTypeId.Document];
CT11
CT12     docContentType1 = web.ContentTypes.Add(docContentType);
CT13     docContentType1.Group = contentTypeGroup;
CT14     SPFieldLink transDateFieldRef =
        new SPFieldLink(transDateField);
CT15     transDateFieldRef.Required = true;
CT16     docContentType1.FieldLinks.Add(transDateFieldRef);
CT17     docContentType1.Update();
CT18     docContentType2 = web.ContentTypes.Add(docContentType2);
CT19     docContentType2.Group = contentTypeGroup;
CT20     SPFieldLink titleODFieldRef =
        docContentType2.FieldLinks[SPBuiltinFieldId.Title];
CT21     ...
CT22     titleODFieldRef.Required = true;
CT23     ...
CT24     docContentType2.Update();
CT25     docContentType3 = web.ContentTypes.Add(docContentType3);
CT26     docContentType3.Group = contentTypeGroup;
CT27     SPFieldLink titlePmtFieldRef =
        docContentType3.FieldLinks[SPBuiltinFieldId.Title];
CT28     ...
CT29     titlePmtFieldRef.Required = true;
CT30     ...
CT31     docContentType3.Update();
CT32 }
CT33
CT34 {
CT35     SPWeb parentWeb = (SPWeb)properties.Feature.Parent;
CT36     switch (upgradeActionName)
CT37     {
CT38         case "
CT39         ...

```

```

UA01  private SPBasePermissions _permissions =
        SPBasePermissions.EmptyMask;
UA02  public override void
        FeatureActivated(SPFeatureReceiverProperties properties)
UA03  {
UA04      try
UA05      {
UA06          SPSite site =
            new SPSite("http://localhost:80/sites/brands/Wholesale");
UA07
UA08          using (SPWeb web = site.RootWeb)
UA09          {
UA10              _permissions = this.GetExistingPermissions();
UA11
UA12              foreach (SPWeb spWebItem in web.Webs)
UA13              {
UA14                  ...
UA15              }
UA16          }
UA17      }
UA19      {
UA20
UA21      }
UA22
UA23  }
UA24  private SPBasePermissions GetExistingPermissions()
UA25  {
UA26      SPBasePermissions permissions =
        SPBasePermissions.EmptyMask;
UA27      ...
UA28      return permissions;
UA29  }

```

ContentType.Finance.Template.xml

```
CX01 <Feature Id="08380D6A-858C-4618-9525-50E9D6DEAD53"
CX02   Title="ContentType.Finance"
CX03   Description="Content type for Finance"
CX04   ReceiverClass="MyFeatureReceiver.MyReceiver"
CX05   xmlns="http://schemas.microsoft.com/sharepoint/">
CX06   ...
CX07   <ElementManifests>
CX08     <ElementManifest Location="ElementsV1.xml" />
CX09     <ElementManifest Location="ElementsV2.xml" />
CX10   </ElementManifests>
CX11
CX12   <UpgradeActions>
CX13
CX14     <ApplyElementManifests>
CX15       <ElementManifest Location="ElementsV2.xml" />
CX16     </ApplyElementManifests>
CX17     <AddContentTypeField
CX18       ContentTypeId="0x010123F15ADB2FA333AA49848E7E01BC79C9753222"
CX19       FieldId="{4FB9816F-799D-41F3-B801-B8F5FEB3A5CD}" />
CX20     <CustomUpgradeAction Name="
CX21       <Parameters>
CX22         <Parameter Name="Division">Finance</Parameter>
CX23       </Parameters>
CX24     </CustomUpgradeAction>
CX25
CX26   </UpgradeActions>
CX27
CX28 </Feature>
```

ExportWholesaleSites.ps1



```

EW01 $site = Get-SPSite "http://localhost:80/sites/brands/Wholesale";
EW02 foreach ($web in $site.AllWebs)
EW03 {
EW04
EW05     $web | Export-SPWeb -Path ($web.Title + ".cmp") -Force;
EW06     $date = Get-Date;
EW07     if ($web.AllProperties["LastWebExport"] -eq $null)
EW08     {
EW09         $web.AddProperty("LastWebExport", $date);
EW10         $web.Update();
EW11     }
EW12     else
EW13     {
EW14         $web.SetProperty("LastWebExport", $date);
EW15         $web.Update();
EW16     }
EW17
EW18 }

```

A server in the SharePoint farm experiences high memory usage. Task Scheduler on the server runs a Windows PowerShell script to perform backups of Wholesale sites. You need to resolve any memory leak issues in the Windows PowerShell script. What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Insert the code segment at line EW04:  
Start-SPAssignment -Global
- B. Insert the code segment at line EW17:  
\$site.Close()
- C. Insert the code segment at line EW17:  
Stop-SPAssignment -SemiGlobal
- D. Insert the code segment at line EW17:  
Stop-SPAssignment Global

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 2**

After deploying a solution, a code-based hotfix becomes available. You need to deploy the hotfix. What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Use assembly binding redirection in the web application configuration file.
- B. Increment the assembly file version of the assembly.
- C. Increment the product version of the assembly.
- D. Increment the assembly version of the assembly.
- E. Use assembly binding redirection in the assembly policy file.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 3**

**DRAG DROP**

You need to add code at line CT11 to create the content types. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations 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.)



	Answer Area
<pre>(docContentType, web.ContentTypes, "Finance");</pre>	<pre>SPContentType docContentType1 = new</pre>
<pre>(docContentType, web.ContentTypes, "Order Details");</pre>	
<pre>(docContentType, web.ContentTypes, "Payment Confirmation");</pre>	<pre>SPContentType docContentType2 = new</pre>
<pre>(docContentType1, web.ContentTypes, "Finance");</pre>	
<pre>(docContentType1, web.ContentTypes, "Order Details");</pre>	<pre>SPContentType docContentType3 = new</pre>
<pre>(docContentType1, web.ContentTypes, "Payment Confirmation");</pre>	
<pre>(docContentType2, web.ContentTypes, "Payment Confirmation");</pre>	

A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 4

Customers report that upon creation of the Payment Confirmation document, they do not receive a confirmation message. You need to ensure that customers receive confirmation messages. What should you do?

- A. Ensure that the user has the correct permissions to start a workflow.
- B. Ensure that the Payment Confirmation content type is deployed.
- C. Ensure that the user is assigned to the Wholesale role.
- D. Ensure that a workflow is associated with the document content type.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

You need to set the appropriate permission levels. A variable named customRole references Wholesale. Which code segment should you add at line UA09?

- A. customRole.BasePermissions = \_permissions | SPBasePermissions.ViewFormPages;
- B. customRole.BasePermissions = \_permissions | SPBasePermissions.ViewPages;
- C. customRole.BasePermissions = SPBasePermissions.EmptyMask | SPBasePermissions.ViewPages;
- D. customRole.BasePermissions = SPBasePermissions.ViewPages;

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## Case study 4

### QUESTION 1

Case Study: 4

Litware Inc.

Background

You are a SharePoint developer working for Litware Inc., a large bicycle manufacturing company. Litware runs an intranet that is based on SharePoint Server 2010, side-by-side a collaboration space for various departments. The IT department for Litware is migrating a SharePoint 2010 environment to a new SharePoint 2013 farm. Some collaboration site collections are already migrated, including a Marketing site collection.

Business Requirements

Intranet

Litware is redefining its brand identity. It is essential that the new intranet supports a wide variety of mobile devices, platforms, and browsers. Some of the content must be migrated from the old intranet during the implementation. The redesigned intranet must be extensible. The solution must be designed with the changes in the underlying technology in mind.

A marketing company named Graphic Design Institute provides documents and guidelines for the new design for Litware's intranet.

Collaboration

Litware has the following collaboration requirements:

- The collaboration space must include a start page containing information about site owners, contact data, and statistics on site usage. This information must be available for each collaboration space, directly after its creation.
- The project must be delivered in multiple phases.
- The solution must support changes and updates on the structure and functionality of the collaboration spaces.

Marketing collaboration space

Auditors must be able to create reports about the documents the Marketing team produces. Initial reports should show document distribution over projects and information about the most active documents, the top inactive documents, and the most active users. Additional reports will be added over time.

Technical Requirements

Publishing Design for the Intranet

Litware will use the following web application for the intranet:

<https://intranet.litwareinc.com>.

The publishing site design is delivered as a set of HTML files (litwarepublishing.html), CSS (Litwarepublishing.css), and image files from the marketing company. A design package must be created for easier deployment over various platforms. During the creation and application of the design package to the publishing site, SharePoint 2013 out-of-the-box capabilities must be used as much as possible to ensure simple design changes and to simplify the upgrade procedures. The publishing site must support rendering on a number of devices, starting with Windows Phone. Apart from being deployed on all existing publishing sites, the design package must be automatically applied each time a publishing site is created. A search box must be available on all publishing sites.

Collaboration

Litware will use two additional web applications for the collaboration:

- Collaboration 1: <https://collab1.litwareinc.com>
- Collaboration 2: <https://collab2.litwareinc.com>

Most of the features contained within the Team Site template are sufficient; however, a few additions to the template must be made to support the business requirements. In order to achieve this and ensure maximum portability, a web template based on the Team Site definition must be created. A three-state workflow must be used to manage business processes. A customized default home page must be deployed by using a site feature.

Feature IDs:

- Three-state workflow: FDE5D850-671E-4143-950A-87B473922DC7 · Litware Web Artifacts: DBF80SAB-03D9-43DC-9154-52D6AC54689F The

project must be implemented in phases, so a solution must be developed to support upgrade procedures. As soon as the package containing the web template Litware.Intranet.Templates.wsp is deployed, the Litware Team Site template must be available for use in all site collections. In order to make the solution as extensible as possible, all core functionality should be moved to the separate package Litware.Intranet.Core.wsp. Deployment of the package containing the Litware web templates Litware.Intranet.Templates.wsp must be prevented if the core package is not deployed in order to prevent deployment errors and eventually damage on the site structure itself.

Litware.Intranet.Templates contains two features:

- The LitwareWebTemplateFeature feature contains the Litware Team Site web template. Templates with this title must be available in the group Litware in the template selection.
- The LitwareWebArtifacts hidden feature contains code required to run after the provisioning is completed.

The LitwareWebArtifacts feature can be activated only if the LitwareWebTemplateFeature feature is activated as well.

Marketing site collection

An existing marketing collaboration site located in a web application named Collaboration 1 is located at <https://collabl.litwareinc.com/sites/marketing>. Collaboration 1 contains a document library with approximately 9000 documents for approximately 200 projects. The largest project contains 120 files. Documents are assigned to appropriate projects by using the Projects field. The farm uses the default throttle settings. Users report that they cannot sort documents in the marketing collaboration site.

Auditors have access to the page that provides statistics on Marketing documents. This page contains a report on document distribution over projects and information about the most active documents, the top inactive documents, and the most active users. Processing the queries can result in working with huge result sets. You must ensure that the information on this page is always available and that the queries are not throttled. The relevant code segment is available in the code sections area (MarketingAudit.ascx.es).

Application Structure

Relevant portions of the app files are shown below. (Line numbers in the code segments are included for reference only and include a two-letter prefix that denotes the specific file to which they belong.)

Element.xml file from Litware.Intranet.Templates.wsp:

```
PB01 <?xml version="1.0" encoding="utf-8"?>
PB02 <Elements xmlns="http://schemas.microsoft.com/sharepoint/">
PB03   <PropertyBag ParentType="Web">
PB04     <Property Name="litware.teamsite.wt_ID"
PB05       Type="string" Value="WTLitwareTeamSite" />
PB06   </PropertyBag>
PB07 </Elements>
```

MarketingAudit.ascx.es

```

MA01 protected override void RenderContents(System.Web.UI.HtmlTextWriter writer)
MA02 {
MA03     SPWeb spWeb = SPContext.Current.Web;
MA04     SPList spList = spWeb.Lists["Documents"];
MA05     SPUser spUser = SPContext.Current.Web.CurrentUser;
MA06     SPQuery spQuery = new SPQuery();
MA07
MA08
MA09
MA10     if (spUser.IsSiteAdmin || spUser.IsSiteAuditor)
MA11     {
MA12         ...
MA13     }
MA14     else
MA15     {
MA16         writer.Write("<p> You do not have enough privileges to run this report.
           Please contact your system administrator. </p>");
MA17     }
MA18
MA19     base.RenderContents(writer);
MA20 }

```

You create a document reporting

Web Part for the Marketing team auditors. You need to configure throttling for the Web Part. Which code segment should you insert at line MA08?

- A. spQuery.QueryThrottleMode = SPQueryThrottleOption.Strict;
- B. spQuery.QueryThrottleMode = SPQueryThrottleOption.Override;
- C. spQuery.QueryThrottleMode = SPQueryThrottleOption.Disable;
- D. spQuery.QueryThrottleMode = SPQueryThrottleOption.Default;

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

## QUESTION 2

You need to create a design package for the publishing sites. What should you do?

- A. Use SharePoint Designer to create master pages and a design package.
- B. Use Visual Studio 2012 to create master pages and generate a design package.
- C. Use display templates.
- D. Use Design Manager.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### **QUESTION 3**

**DRAG DROP**

You need to apply the Design Package to all of the required sites. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations 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.)

	Answer Area
LitwareIncTemplate#0	<pre> &lt;?xml version="1.0" encoding="utf-8"?&gt; &lt;Elements xmlns="http://schemas.microsoft.com/sharepoint/"&gt;    &lt;     Id="1af9c070-8e74-4554-aa03-4373a812e5ac"      TemplateName=" " /&gt;  &lt;/Elements&gt; </pre>
OSRV#0	
FeatureTemplate	
FeatureTemplateStapler	
BLANKINTERNET#0	
WTLitwareTeamSite	
litware.teamsite.wt_ID	
FeatureWebTemplateAssociation	
FeatureSiteTemplateAssociation	

A.

**Correct Answer:**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

```

<?xml version="1.0" encoding="utf-8"?>
<Elements xmlns="http://schemas.microsoft.com/sharepoint/">
  < FeatureSiteTemplateAssociation
    Id="1af9c070-8e74-4554-aa03-4373a812e5ac"
    TemplateName=" BLANKINTERNET#0 " />
</Elements>

```



**QUESTION 4**

You implement the dependency changes based on the requirements for the Litware web artifacts feature. When you deploy the Litware.Intranet.Templates.wsp package, you receive an error message. You need to ensure that the package deploys successfully. What should you do?

- A. Set the scope of the Litware web artifacts feature to SPSite.
- B. Set the scope of the Litware web artifacts feature to SPFarm.
- C. Set the Is Hidden option of the Litware web artifacts feature to False.
- D. Set the Auto Activate in Central Admin parameter of the Litware web artifacts feature to True.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 5**

**HOTSPOT**

You need to scope the feature containing the Litware Team Site template. In the Feature Designer tool in Visual Studio 2012, which scope option should you select? (To answer, select the appropriate scope from the drop-down list in the answer area.)

Design

Manifest

Title:

Litware Web Template

Description:

Scope:

Items in the Solution:

WebTemplatePrope...  
Element

Files

Items in the Feature:

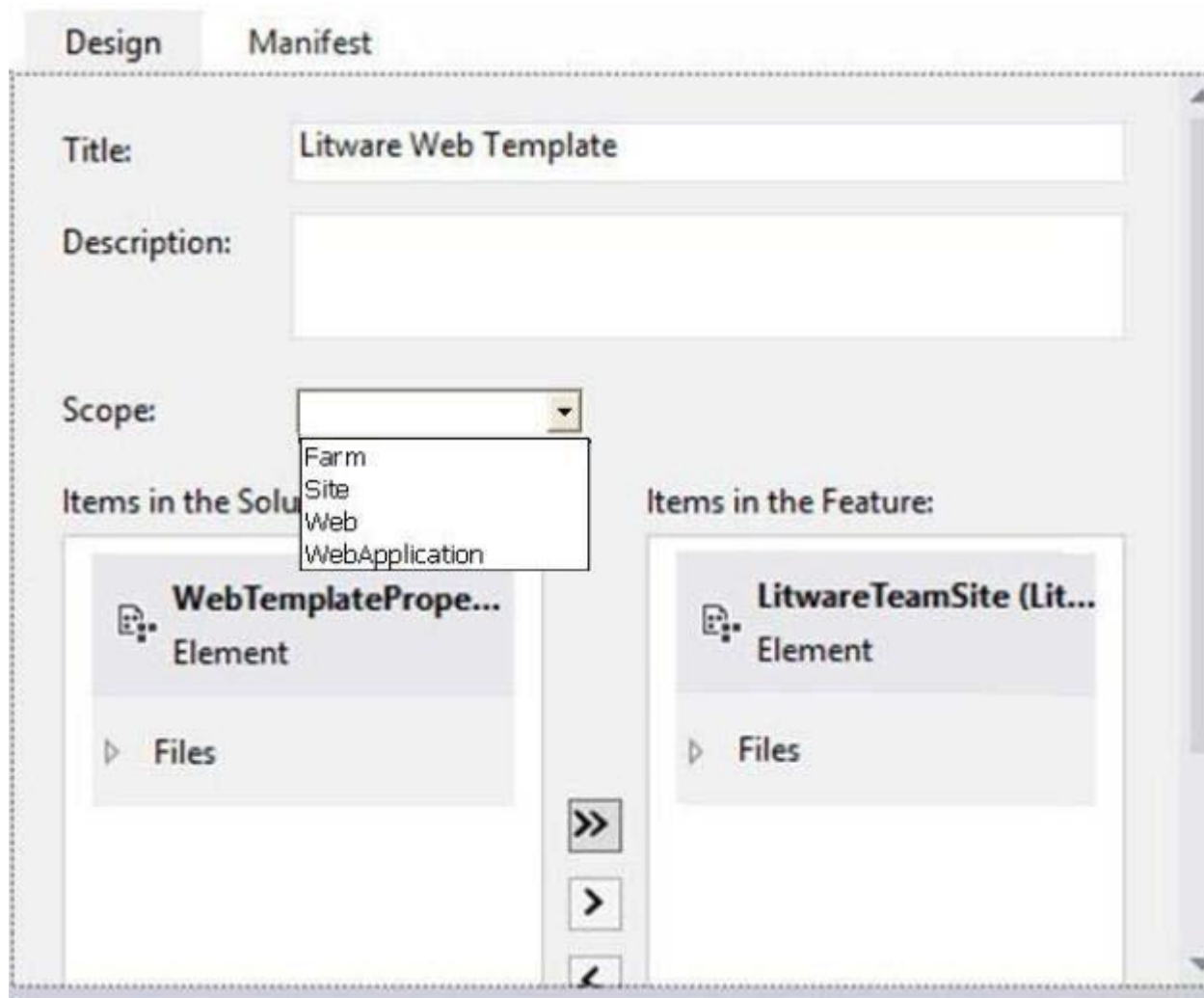
LitwareTeamSite (Lit...  
Element

Files

>>

>

<



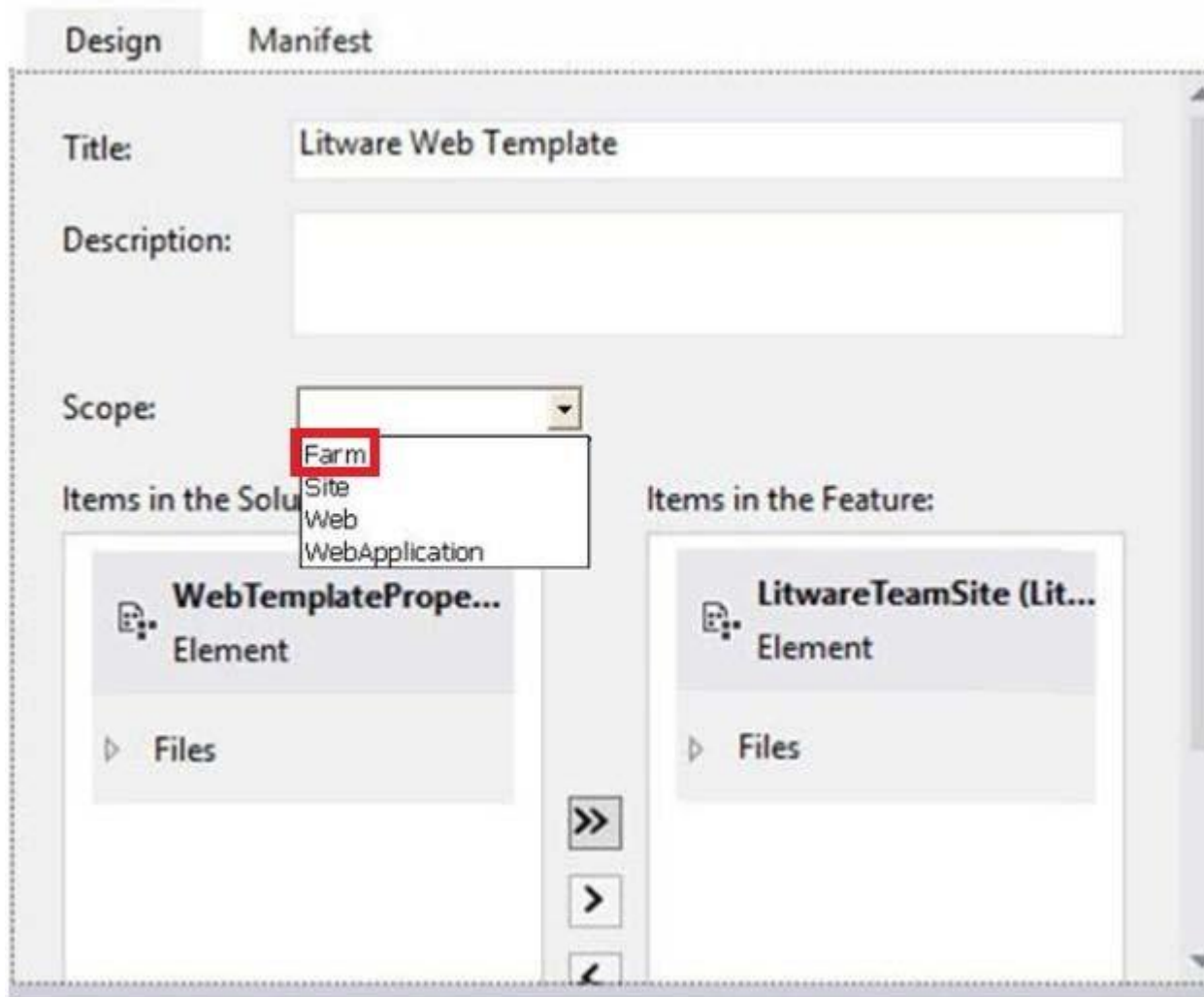
A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 6

##### DRAG DROP

You need to ensure that the features required for the Litware Team Site web template are referenced correctly in the ONET.XML file. How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations 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.)

	Answer Area
WebFeatures	<pre> &lt;Configuration ID="0" Name="Default"   MasterUrl="_catalogs/masterpage/seattle.master"&gt;   &lt;SiteFeatures&gt;      &lt;Feature ID=" " /&gt;    &lt;/SiteFeatures&gt;    &lt; " /&gt;    &lt;Feature ID=" " /&gt;    &lt; " /&gt;  &lt;/Configuration&gt; </pre>
FarmFeatures	
SiteCollectionFeatures	
DBF805AB-03D9-43DC-9154-52D6AC54689F	
FDE5D850-671E-4143-950A-87B473922DC7	

A.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

```

<Configuration ID="0" Name="Default"
  MasterUrl="_catalogs/masterpage/seattle.master">
  <SiteFeatures>

    <Feature ID=" FDE5D850-671E-4143-950A-87B473922DC7 " />

  </SiteFeatures>

  < WebFeatures >

    <Feature ID=" DBF805AB-03D9-43DC-9154-52D6AC54689F " />

  </ WebFeatures >

</Configuration>

```