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Question: 1

You have been asked to create a web portal for your company's customers which allows each customer to view the data stored against their Microsoft CRM account, but not any other accounts. The company has over 1000 customers who may use this portal, and you want to minimize the licensing cost, while maintaining sufficient security. What users and licenses should you use for this scenario?

- A. Create one Microsoft CRM user account with a Microsoft CRM client license that is used by all customers. Use this account for authentication in the portal and for accessing Microsoft CRM data.
- B. Create a separate Microsoft CRM user account for each customer, each with a Microsoft CRM client license. Use each account for authentication in the portal and for accessing Microsoft CRM data.
- C. Create a separate, non-Microsoft CRM authentication mechanism for each customer in the portal. Purchase a Microsoft CRM External Connector License. Create one proxy account which the portal uses to access Microsoft CRM data.
- D. Create a separate, non-Microsoft CRM authentication mechanism for each customer in the portal. Retrieve Microsoft CRM data directly from the SQL database using filtered views, hence no Microsoft CRM licenses are required.

Answer: C

Question: 2

Your company has a requirement that whenever a user creates a case in Microsoft CRM, a record is written to a custom application. As the custom application can be slow to update, you want to ensure that the code you write does not impact the Microsoft CRM user's experience. You also want to ensure that only data which is saved to Microsoft CRM is written to the custom application. How should you write the logic to update the custom application?

- A. As a Pre-Callout.
- B. As a Post-Callout.
- C. Using client-side Java Script that runs on a form's OnSave event.
- D. As a workflow assembly that is called from a workflow rule that runs on the Create event.

Answer: D

Question: 3

You need to build some custom validation code that will force Microsoft CRM users to enter values in certain fields of an opportunity once its CloseProbability exceeds 50%. If a user fails to enter appropriate data an error message displays, and they are prevented from saving the opportunity. How can you achieve this? Choose the 2 that apply.

- A. Use a Post-Callout.
- B. Use a Pre-Callout.
- C. Use client-side Java script.
- D. Use a workflow assembly.

Answer: B, C

Question: 4

You are creating an ASP .NET application to extend your company's Microsoft CRM implementation, and you want the application to resemble the Microsoft CRM application. How should you achieve this with the minimum effort, while ensuring your extensions are fully supported?

- A. Reference the cascading style sheets used by the Microsoft CRM application.
- B. Use the Microsoft CRM ASP .NET web controls within your custom pages.
- C. Create .aspx web pages that inherit from the class Microsoft.Crm.Application.BasePage.
- D. Use the styles in the cascading style sheet file template.css that is supplied with the Microsoft CRM 3.0 SDK.

Answer: D

Question: 5

You are creating custom web pages that extend Microsoft CRM contact functionality, using the Microsoft CRM web service. You want your web pages to reflect any changes made to the Microsoft CRM entity and attribute display names. How should you do this, with the minimum of additional development work?

- A. Read the display names from the Microsoft CRM web service MetadataService.
- B. Read the display names from the Microsoft CRM web service CrmService.
- C. Store all text in a satellite .Net assembly. Create a separate copy of the satellite assembly for each deployment with the relevant text.
- D. Use .Net Reflection within your web pages to determine the entity and attribute display names at runtime from the WSDL generated by the Microsoft CRM web service.

Answer: A

Question: 6

You want to display Microsoft CRM data within an ASP .Net DataGrid web control. It is important that only data the user has permission to see is displayed. Which of the following techniques can you use? Choose the 2 that apply.

- A. Use the RetrieveMultiple method of the CrmService web service to retrieve the Microsoft CRM data as a BusinessEntityCollection, and bind this to the DataGrid.
- B. Use the RetrieveMultiple method of the CrmService web service to retrieve the Microsoft CRM data as a DataSet, and bind this to the DataGrid.
- C. Use the RetrieveMultiple method of the CrmService web service to retrieve the Microsoft CRM data as a BusinessEntityCollection. Use custom code to iterate through the BusinessEntityCollection to add the data to the DataGrid.
- D. Use classes in the System.Data .Net Framework namespace to populate a DataSet with the results of a SQL query against Microsoft CRM filtered views. Bind this DataSet to the DataGrid.

Answer: C, D

Question: 7

You are building a custom web application to update Microsoft CRM data via the Microsoft CRM platform. This data includes some numeric fields which may have maximum and minimum values applied within the Microsoft CRM schema; values which may be changed in the future. Your priority is for the custom application to offer a similar user experience to that of the Microsoft CRM application, including how users are notified of data validation errors. What is the best way to do this?

- A. Use the MetadataService to identify the maximum and minimum permitted values. Use these values to apply data validation within the user interface.
- B. Use the Microsoft CRM customization interface to find the current maximum and minimum permitted values. Store these values in a resource assembly, and update the resource assembly whenever the values are changed. Use these values to apply data validation within the user interface.
- C. Use the MetadataService to identify the maximum and minimum permitted values. Write a PreCallout to implement the data validation using these values, and to pass validation error messages to the user.
- D. Do not do any data validation in the application. If the Microsoft CRM platform returns any errors, display them to the user.

Answer: A

Question: 8

You have created a workflow .NET assembly and deployed the assembly dll to your company's Microsoft CRM server. You have

local administrator rights on the server. What additional steps do you need to take to ensure you can debug the assembly on the server? Select two answers. Each correct answer forms part of the complete solution Choose the 2 that apply.

- A. Deploy an up-to-date program database (pdb) to the server.
- B. Add the assembly to the Global Assembly Cache.
- C. Ensure a .Net Framework 1.1 debugger is installed on the server.
- D. Ensure a .Net Framework 2.0 debugger is installed on the server.

Answer: A, C

Question: 9

You have written a workflow assembly method which takes two parameters: StartDate is of type datetime, and AccountID is of type lookup, and expects an account entity. Neither parameter has a default value. How should you supply information about these parameters within workflow.config?

- A. `<parameter name="StartDate" datatype="datetime" />` `<parameter name="AccountID" entityname="account" />`
- B. `<parameter name="StartDate" datatype="datetime" />` `<parameter name="AccountID" datatype="account" />`
- C. `<parameter name="StartDate" datatype="datetime" />` `<parameter name="AccountID" datatype="lookup" entityname="account" />`
- D. `<parameter name="StartDate" entityname="datetime" />` `<parameter name="AccountID" entityname="account" />`

Answer: C

Question: 10

You want to return multiple values from a method in a workflow .NET assembly. How should you do this?

- A. Define multiple parameters as By Reference, and return values through these parameters.
- B. Define the return value as a string. Concatenate all the values into the string, and use string manipulation functions within the workflow rule to split the different values.
- C. Define the return value of type XML. Build all the values into the one XML document, and use the retval element in the workflow.config file.
- D. Define the return value of type entity. Return a DynamicEntity with the values set a properties of the DynamicEntity.

Answer: C

Question: 11

You work for an international organization that, for security and localization reasons, has several Microsoft CRM servers. You have developed a workflow assembly that is intended to be deployed to all the Microsoft CRM servers. The assembly has a strong name. Some of the CRM servers will already have workflow assemblies that are specific to that server. What steps should you take to deploy the assembly with the minimum of effort?

- A. For each server, update their workflow.config file with the method definitions in your assembly. Copy the assembly to the assembly directory within Microsoft CRM.
- B. Create a workflow.config file which contains all the required configuration. Replace each server's workflow.config file with your workflow.config file. Copy the assembly to the assembly directory within Microsoft CRM.
- C. Create a file <YourAssembly>.workflow.config which contains all the required configurations. For each server, add this to the directory which contains the workflow.config file. Copy the assembly to the assembly directory within Microsoft CRM.
- D. Install the assembly into the Global Assembly Cache on each server.

Answer: A

Question: 12

You are writing a Post-Callout which updates Microsoft CRM data via the CrmService web service. How can you ensure that the updates are made using the context of the user whose changes caused the callout to run?

- A. Create a parameter of datatype caller. Read the data in the userid XML element of the data passed to this parameter, and assign it to the CallerIdValue of the CrmService object.
- B. Read the user information from UserId property of the userContext parameter. Assign this value into the CallerIdValue of the CrmService object.
- C. Read the user information from UserId property of the userContext parameter. Create a new instance of the NetworkCredential class using the UserId, and assign this credential to the Credentials property of the CrmService object.
- D. Create a parameter of datatype caller. Read the data in the userid XML element of the data passed to this parameter, and assign this credential to the Credentials property of the CrmService object.

Answer: B

Question: 13

Within a PostCreate callout method, what is the quickest way to determine the primary key of the newly created entity?

- A. Read the value of the InstanceId property of the CalloutEntityContext parameter passed to the callout method.
- B. Within the callout.config.xml file, specify that the primary key attribute should be passed as a postvalue. Read this value from the postEntityImageXml parameter passed to the callout method.
- C. Read the value of the EntityID parameter passed to the callout method.
- D. It is not possible to determine the primary key of the newly created entity, as the primary key is only assigned after all callouts have completed.

Answer: A

Question: 14

You have written a PostUpdate callout that performs calculations on the Microsoft CRM order record when it is changed, and updates the record with the results of the calculation. When you try to update an order through the Microsoft CRM interface it takes a long time, and ultimately gives a timeout error. During the update you notice the processor utilization on the server rises significantly. What should you do to resolve these problems?

- A. In callout.config.xml, add the following attribute to the subscription element for the callout: timeout="2"
- B. In callout.config.xml, add the following attribute to the subscription element for the callout: onerror="ignore"
- C. Rewrite the callout code to ensure that the updates to the order object only occur once as a result of changes by the user, and do not repeat endlessly as a result of the update made by the callout.
- D. Rewrite the callout code to make the updates to the order record asynchronously.

Answer: C

Question: 15

You have created a callout assembly, MyCompany.MyCallout, and deployed it on a Microsoft CRM server. You now want to debug the callout. To which process should you attach the debugger?

- A. w3wp.exe
- B. CrmWorkflowService.exe
- C. MyCompany.MyCallout.dll

D. MyCompany.MyCallout.exe

Answer: A

Question: 16

You have created a new callout assembly that contains a PostCreate callout for the Lead entity. You have copied the assembly to the correct directory on the Microsoft CRM server, and added the callout configuration details to the callout.config.xml file. However, when you create a new lead, the callout does not fire. No errors appear in the event log, and previously deployed callouts work correctly. What should you do to resolve the problem?

- A. Run iisreset on the Microsoft CRM server.
- B. Publish the lead entity via the Microsoft CRM Customization user interface.
- C. Install the callout assembly in the Global Assembly Cache on the Microsoft CRM Server.
- D. Restart the CrmWorkflowService.

Answer: A

Question: 17

You have a PostUpdate callout that has been deployed to your Microsoft CRM Server. You are now trying to debug the callout using the Visual Studio 2003 debugger. You have attached the debugger to the correct process, and set a breakpoint on first line of code in the PostUpdate method, but the code is not stopping on the breakpoint. You are sure the callout code is running. What could be the problem?

- A. You are using the wrong version of the debugger. You need to use Visual Studio 2005 to debug callouts.
- B. You have not deployed a program database (pdb) file for the callout assembly to the server.
- C. The callout assembly does not have a strong name.
- D. In callout.config.xml, the subscription element for the callout has the attribute onerror="ignore".

Answer: B Question: 18

You are writing a PostUpdate callout that needs to identify when the value of an attribute is changed. How should you do this?

- A. Ensure there is a prevalue and a postvalue element for the attribute in callout.config.xml. Deserialize the preImageEntityXml and postImageEntityXml parameters passed to the callout, and compare the values for the attribute.
- B. Ensure there is a prevalue and a postvalue element for the attribute in callout.config.xml. Compare the string values of the preImageEntityXml and postImageEntityXml parameters.
- C. Ensure there is a postvalue element for the attribute in callout.config.xml. Use the Retrieve method of the CrmService web service to read the current value of the attribute. Deserialize the postImageEntityXml parameters passed to the callout and compare the value of the attribute to that returned by the Retrieve method.
- D. Ensure there is a postvalue element for the attribute in callout.config.xml. Use the Retrieve method of the CrmService web service to read the current value of the attribute. Compare this value to the postImageEntityXml parameter.

Answer: A

Question: 19

You have two callouts (CalloutA and CalloutB) that both fire on the PostUpdate event of the Task entity. How can you ensure that CalloutA always runs before CalloutB, with the minimum of code changes?

- A. Add a CalloutOrder attribute to the subscription element for each callout in the callout.config.xml file. Set the value of the CalloutOrder attribute for CalloutA to be a lower integer than the value for CalloutB.
- B. Remove the definition for CalloutB from callout.config.xml. Call CalloutB directly at the end of the code for CalloutA.
- C. In callout.config.xml, change the event attribute for CalloutA to PreCallout.

D. In callout.config.xml, ensure the subscription element for CalloutA appears earlier in the file than that for CalloutB.

Answer: D

Question: 20

You are writing a Post-Callout that should identify when the CloseProbability attribute of the Opportunity entity is changed, and by how much, based on the parameters passed into the callout. Which of the following partial callout configurations could you use for this callout? Select two. Each correct answer forms a complete solution Choose the 2 that apply.

- A. <subscription ?> <prevalue>closeprobability</prevalue>
 </subscription>
- B. <subscription ?> <postvalue>closeprobability</postvalue>
 </subscription>
- C. <subscription ?> <prevalue>closeprobability</prevalue>
 <postvalue>closeprobability</postvalue> </subscription>
- D. <subscription ?> <prevalue>closeprobability</prevalue>
 <postvalue>@all</postvalue>
 </subscription>

Answer: C, D

Question: 21

You have created and deployed a web application that accesses Microsoft CRM contact data via the CrmService web service. The application uses a web reference for the CrmService web service which was created within Visual Studio .NET. The application uses strongly typed Microsoft CRM Classes. Two new attributes have subsequently been added to the contact entity, which you now need to use in your application. What should you do to make these new attributes available to your application?

- A. Nothing extra needs to be done.
- B. Within the Visual Studio .Net project, update the web reference to the CrmService web service.
- C. Publish the contact entity within the CRM user interface.
- D. In Visual Studio .Net, find the proxy code generated for the web service. Add the new attributes as properties of the contact class.

Answer: B

Question: 22

Which of the following can be done through the Metadata web service? Select all that apply. Choose the 3 that apply.

- A. Create new entities.
- B. Identify the primary key of an entity.
- C. Retrieve picklist values of a custom entity.
- D. Retrieve the datatype of an attribute.

Answer: B, C, D

Question: 23

Within the CrmService web service the account entity has a parentaccountid attribute which is used to identify which account entity is the parent of a given account. What Microsoft CRM attribute type is the parentaccountid attribute?

- A. Key

- B. Owner
- C. Picklist
- D. Lookup

Answer: D

Question: 24

You want to retrieve data from Microsoft CRM which lists the estimated value of all opportunities along with the country of the opportunity's customer. It is important that the data returned is only those records that the user has permission to view. For performance reasons you want to minimize the number of requests that are submitted to the CRM server. How should you do this?

- A. Use classes in the System.Data namespace to submit a SQL query against the FilteredAccount and FilteredOpportunity views in the Microsoft CRM database.
- B. Use classes in the System.Data namespace to submit a SQL query against the AccountBase and OpportunityBase tables in the Microsoft CRM database.
- C. Use the RetrieveMultiple method of the CrmService.
- D. Use the Microsoft CRM user interface to define a view that displays the information you require. Use the ExecuteByIdSavedQueryRequest method of the CrmService.

Answer: A

Question: 25

You are writing an application that uses the CrmService web service to find an account based on its name attribute. Which method should you use?

- A. Retrieve method of the CrmService class.
- B. RetrieveMultiple method of the CrmService class.
- C. Retrieve method of the account class.
- D. RetrieveMultiple method of the account class.

Answer: B

Question: 26

The CrmService web service includes a mechanism for finding all privileges held by a given user, RetrieveUserPrivileges. This returns an array of type RolePrivilege. This mechanism is implemented the same way as all other entity-specific actions within the CrmService web service. Given the GUID of a user, how would you find their privileges?

- A. 1. Create an instance of the systemuser class.
1 Call the RetrieveUserPrivileges method of the systemuser class, passing the user's Guid as a parameter.
2 Access the return value of the method.
- B. 1. Create an instance of the CrmService class.
1 Create an instance of the RetrieveUserPrivilegesRequest class.
2 Call the Execute method of the CrmService class, passing the RetrieveUserPrivilegesRequest class and user's Guid as parameters.
3 Access the return value of the Execute method.
- C. 1. Create an instance of the CrmService class.
1 Create an instance of the RetrieveUserPrivilegesRequest class.
2 Set the UserId field of the systemuser class to the user's Guid.
3 Call the Execute method of the CrmService class, passing the RetrieveUserPrivilegesRequest class as a parameter.

4 Cast the return value of the Execute method to the type RetrieveUserPrivilegesResponse.

D. 1. Create an instance of the RetrieveUserPrivilegesRequest class.

1 Set the UserId field of the RetrieveUserPrivilegesRequest class to the user's Guid.

2 Call the Execute method of the RetrieveUserPrivilegesRequest class

3 Cast the return value of the Execute method to the type RetrieveUserPrivilegesResponse.

Answer: C

Question: 27

You have written a block of .Net code that calls methods of the CrmService web service to delete Microsoft CRM data, and also performs some mathematical calculations. You want to record any errors that occur, with meaningful error messages. What Catch block or blocks of code should you write?

A. One catch block to catch all exceptions of type Exception.

B. One catch block to catch all exceptions of type SoapException.

C. One catch block to catch all exceptions of type SoapException. One catch block to catch all exceptions of type Exception.

D. One catch block to catch all exceptions of type XmlException.
One catch block to catch all exceptions of type Exception.

Answer: C

Question: 28

When using the CrmService web service, which method would you use to create a new lead in the Microsoft CRM database?

A. Create method of the lead class.

B. Constructor of the lead class.

C. Constructor of the CrmService class.

D. Create method of the CrmService class.

Answer: D

Question: 29

You are writing a web application which will access Microsoft CRM data via the CrmService web service. You have created a web reference to the web service. Which property of an instance of the CrmService class must you set in code prior to using any of the CrmService methods?

A. Credentials

B. CallerIdValue

C. Url

D. UserName

Answer: A

Question: 30

You have been asked to write a custom .NET application that uses the CrmService web service to retrieve Microsoft CRM data, which is then displayed to the user. This data includes numeric and currency values, and it is important that the data is formatted within the custom application in the same way that it is displayed within Microsoft CRM. What is the easiest way to do this?

- A. Use the formattedvalue field of the numeric and currency attributes.
- B. Use the MetadataService web service to retrieve the formatting information for each attribute, and use .NET methods to format the raw data for display.
- C. Retrieve the formatting information from the organization class of the CrmService web service. Use .NET methods to format the raw data for display.
- D. Rewrite the application to retrieve the data via FilteredViews, as the data returned by FilteredViews is already formatted correctly.

Answer: A

Question: 31

You have written a custom .NET application that uses the CrmService web service to create accounts and custom entities within Microsoft CRM. When testing the code using an account with the System Administrator security role it all works correctly. However, when using a different user account the accounts are created, but the code for creating the custom entity fails with an error indicating the user does not hold the necessary privileges. You check the user account used, and add it to a security role that has the CREATE access right for the custom entity. You test the code again, and get the same error. What is the most likely cause of the problem?

- A. The code has not set the CallerIdValue field of the CrmService object to that of the correct user.
- B. Security changes to custom entities only apply after the entity is published. Publish the custom entity and try again.
- C. The user account requires more than just the CREATE access right. Ensure the role it belongs to also has the READ access right for the custom entity.
- D. Security role membership is only checked when a user account logs on. Log off, and log on again with the user account before testing again.

Answer: C

Question: 32

Which of the following can you do by editing the Microsoft CRM SiteMap? Select two answers. Choose the 2 that apply.

- A. Remove the Sales Application Area from the Microsoft CRM application
- B. Add a new menu to the Microsoft CRM Application Menu Bar.
- C. Add new links within the Microsoft CRM application to custom web pages.
- D. Add new links within an entity form to custom web pages.

Answer: A, C

Question: 33

Which of the following extensions to the Microsoft CRM Client for Outlook are permitted? Select all that apply. Choose the 3 that apply.

- A. Adding a menu item to Lead entity form.
- B. Adding a new area to the main navigation pane.
- C. Adding a button to the toolbar of the Contact entity form.
- D. Adding a button to the CRM toolbar of the Outlook client.

Answer: A, B, C

Question: 34

You have extended the Microsoft CRM user interface by adding a SubArea to the main navigation pane which links to a web page on the company Intranet. This appears to work correctly, except for users of the CRM Laptop Client for Outlook who get errors when

trying to use the link when offline. You want to make supported customizations that make the web page available to users in as many circumstances as possible, and to minimize the likelihood of errors within the client. What should you do?

- A. Make a copy of the web page and add it to the installation directory for the CRM Laptop Client for Outlook. Ask all users of the CRM Laptop Client for Outlook to reinstall the CRM Laptop Client for Outlook.
- B. Make a copy of the web page and add it to the root directory of the Microsoft CRM web application on the Microsoft CRM server. Ask all users of the CRM Laptop Client for Outlook to resynchronize the client.
Add the attribute Client = "Web" to the existing definition of the SubArea. Add a new SubArea element with the attribute Client = "Outlook" which points to the local copy of the web page.
- C. Add the attribute AvailableOffline = "false" to the definition of the SubArea.
- D. Add the attribute Client = "OutlookWorkstationClient, Web" to the definition of the SubArea.

Answer: C

Question: 35

You have been asked to add a hyperlink or button onto the Microsoft CRM account form. When a user clicks on this link or button a custom .aspx page opens in a new browser window. The URL for this custom page is <http://Server1/Custom.aspx>. This page receives information on the query string that identifies the Microsoft CRM account entity displayed in the account form. What should you add to the account element in ISV.Config to achieve this ?

- A. `<ToolBar ValidForCreate="0" ValidForUpdate="1"> <Button Title="Custom" Url=" http://Server1/Custom.aspx" PassParams="1" WinMode="0"/> </ToolBar>`
- B. `<NavBar ValidForCreate="0" ValidForUpdate="1"> <NavBarItem Title="Custom" Url=" http://Server1/Custom.aspx" PassParams="1" WinMode="0"/> </ToolBar>`
- C. `<ToolBar ValidForCreate="0" ValidForUpdate="1"> <Button Title="Custom" Url=" http://Server1/Custom.aspx" WinMode="0"/> </ToolBar>`
- D. `<NavBar ValidForCreate="0" ValidForUpdate="1"> <NavBarItem Title="Custom" Url=" http://Server1/Custom.aspx" WinMode="0"/> </ToolBar>`

Answer: A

Question: 36

Within client-side script in a Microsoft CRM account form, what is the simplest supported way to determine whether the form is being used to create a new account, or to edit an existing account?

- A. Check the FormType property of the crmForm object.
- B. Ensure the accountid field has been added to the form. Check whether the accountid field contains data; if it does the form is being used to edit an existing account, otherwise the form is being used to create an account.
- C. Check whether the name field contains data; if it does the form is being used to edit an existing account, otherwise the form is being used to create an account.
- D. Check whether the crmFormSubmitId field in the crmFormSubmit form contains data; if it does the form is being used to edit an existing account, otherwise the form is being used to create an account.

Answer: A

Question: 37

You have been asked to customize the Microsoft CRM account form by placing an IFrame on the form which will display the web site of the account if the websiteurl field is set, otherwise it will display a blank page. What is the easiest way to achieve this in a supported manner?

- A. In OnLoad event of the form, and the OnChange event of the websiteurl field, check if the websiteurl is set. If so, dynamically create a Dynamic HTML IFrame element on the form that displays the account's web site, otherwise remove any IFrames.

- B. In ISV.config, create a NavBarItem for the account entity form, and set the URL attribute to "=crmForm.websiteurl.DataValue".
- C. Add an IFrame to the account form using the form customization tool. Set the URL to "_root/blank.aspx".
In OnLoad event of the form, and the OnChange event of the websiteurl field, check if the websiteurl is set. If so, change the src attribute to that of the account's web site.
- D. Add an IFrame to the account form using the form customization tool. Set the URL to
""=crmForm.websiteurl.DataValue".

Answer: C

Question: 38

You want to change the customerid field of an opportunity within client side script. The following variables contain the details of the new customer:

id /* The Guid of the customer */
otc /* The numeric object type code of the customer */
entityName /* The schema name of the object type of the customer */
name /* The name attribute of the customer */

How do you change the customerid field?

- A. `crmForm.all.customerid.DataValue = id;`
- B. `var cust = new Object(); cust.id = id; cust.type = otc; cust.typename = entityName; cust.name = name; crmForm.all.customerid.DataValue = cust;`
- C. `var cust = new Object(); cust.id = id; cust.type = otc; cust.typename = entityName; cust.name = name; var a = new Array(); a[0] = cust; crmForm.all.customerid.DataValue = a;`
- D. `var cust = new Object(); cust.id = id; cust.name = name; crmForm.all.customerid.DataValue = cust;`

Answer: C

Question: 39

You have been asked to make it possible for Microsoft CRM users to disqualify several leads directly from the Lead grid within Microsoft CRM. You have a custom .aspx page that closes a lead when the lead's GUID is passed to the page. This page is named Disqualify.aspx. You have created a Button element in ISV.Config that the user should click on to close the selected leads in the grid. What else should you do (it is important that all changes are fully supported)?

- A. Set the URL attribute of the Button element to open CloseLead.aspx. Set the WinParams attribute of the Button element to "1".
- B. Write custom JavaScript code that will identify the selected items in the grid, and use an XML Request to pass the GUID of each lead to Disqualify.aspx. Write the custom JavaScript code to the JavaScript attribute of the Button element.
- C. Set the URL attribute of the Button element to open Disqualify.aspx. Set the PassParams attribute of the Button element to "1".
- D. Set the URL and WinMode attributes of the Button element to launch a custom web page as a modal dialog. Within the custom web page, use the window.dialogArguments property to identify the selected leads. Iterate through the selected leads, and use an XML Request to pass the GUID of each lead to Disqualify.aspx

Answer: D

Question: 40

You have been asked to add custom code to perform advanced client-side validation on the opportunity form, and prevent a user from saving invalid data. Whether the data is valid or not is determined by the values of the estimatedclosedate and closeprobability fields. How should you write the code?

- A. Write the validation code in the OnChange event of the estimatedclosedate and closeprobability fields. If the data is invalid, set the IsDirty property of both fields to false, otherwise set it to true.
- B. Write the validation code in the OnSave event of the form. If the data is invalid, set the return value of the function to false.
- C. Write the validation code in the OnSave event of the form. If the data is invalid, set the IsDirty property of the form to false.
- D. Write the validation code in the OnChange event of the estimatedclosedate and closeprobability fields. If the data is invalid, set the ForceSubmit property of both fields to false, otherwise set it to true.

Answer: B

Question: 41

You are creating a custom .aspx page to display Microsoft CRM data, and allow updates to the Microsoft CRM data. The updates will be done through the Microsoft CRM web service. Not all users will have rights to modify the Microsoft CRM data. You want the page to behave in a similar way to the Microsoft CRM application as regards enforcing data security. How should you do this?

- A. Allow all users to make changes to data in the user interface. If a user does not have the rights to modify the data, display the error message returned by the Microsoft CRM web service when trying to update the data.
- B. Allow all users to make changes to data in the user interface. When the user tries to save data, use the Microsoft CRM web service to check whether they have permission to make changes. If they do not have permission, display a custom error message.
- C. On the server, when the page loads, use the Microsoft CRM web service to check whether the user has permission to make changes. Only enable user interface options to update data if user has permission.
- D. Write a Pre-Callout to determine whether the user can modify the Microsoft CRM data; if they don, redirect the web page to the Microsoft CRM error page.

Answer: C

Question: 42

Which of the following method definitions are valid for a method that will be called from a workflow rule? Select two answers. Each correct answer presents a complete solution. Choose the 2 that apply.

- A. A private, static method.
- B. A public, static method.
- C. A private, instance method.
- D. A public, instance method.

Answer: B, D

Question: 43

You are writing a Workflow .NET assembly which will update Microsoft CRM data via the CrmService web service. How can you ensure that the updates are made using the context of the user whose changes caused the workflow rule to execute?

- A. Nothing special needs to be done, as the assembly will run in the context of the correct user.
- B. Use the CrmService web service to read the value of the ModifiedBy field of the entity on which the rule fires. Pass this value into the CallerIdValue of the CrmService object.
- C. Read the user information from UserId property of the userContext parameter. Pass this value into the CallerIdValue of the CrmService object.
- D. Create a parameter of datatype caller. Read the data in the userid XML element of the data passed to this parameter, and assign it to the CallerIdValue of the CrmService object.

Answer: D

Question: 44

You are writing a PreUpdate Callout to perform advanced validation on the Case entity. If the validation fails, you want to pass a message to the user explaining why it has failed, and cancel all further processing. How can you achieve this?

- A. Specify the attribute `onerror="abort"` within the subscription element for your callout in `callout.config.xml`. If the validation fails, throw an exception and assign the message to the user as the `Message` property of the exception class.
- B. If the validation fails, set the return value of the callout method to `PreCalloutReturnValue.Stop`, and assign the message to the user to the `errorMessage` parameter.
- C. If the validation fails, set the return value of the callout method to a string containing the message to send to the user.
- D. If the validation fails, set the return value of the callout method to `PreCalloutReturnValue.Abort`, and assign the message to the user to the `errorMessage` parameter.

Answer: D

Question: 45

Within a PostUpdate callout for the Lead entity, you need to read the previous value of the picklist property `prioritycode`. The `callout.config.xml` has been correctly configured such that the value of this property is passed into the `preImageEntityXml` parameter. How can you read the value of the picklist property?

- A. Cast the `preImageEntityXml` parameter value to an instance of the lead class. Read the value of the lead's `prioritycode` property.
- B. Cast the `preImageEntityXml` parameter value to an instance of the `DynamicEntity` class. Cast the `DynamicEntity` to an instance of the lead class. Read the value of the lead's `prioritycode` property.
- C. Deserialize the `preImageEntityXml` data to an instance of the `DynamicEntity` class. Iterate through the `Properties` array of the `DynamicEntity` to find the `prioritycode` property.
Cast the `prioritycode` property to an instance of the `PicklistProperty` class, and read the value.
- D. Deserialize the `preImageEntityXml` data to an instance of the `DynamicEntity` class. Cast the `DynamicEntity` to an instance of the lead class. Read the value of the `DynamicEntity`'s `prioritycode` property.

Answer: C

Question: 46

When handling exceptions from the `CrmService` web service, which property contains the Microsoft CRM error code and description?

- A. The `Message` property of the `Exception` class.
- B. The `Message` property of the `SoapException` class.
- C. The `Detail` property of the `Exception` class.
- D. The `Detail` property of the `SoapException` class.

Answer: D

Question: 47

You are testing code that uses the `CrmService` web service to create an opportunity for an account. The code works correctly when run using an account in the System Administrator role, but fails when run under a user account with lesser privileges. What access rights does the user account require? Select two answers. Choose the 2 that apply.

- A. CREATE on the opportunity entity.
- B. WRITE on the opportunity entity.
- C. APPENDTO on the account entity.
- D. WRITE on the account entity.

Answer: A, C

Question: 48

You are writing an application that displays data from Microsoft CRM in data grids. Several attributes have been renamed from the original Microsoft CRM deployment, and you want to display the current attribute names within your application. How should you do this?

- A. Use the RetrieveMultiple method of the CrmService web service to retrieve the data to display in the grid. For each field that you want to display, find the current name from its DisplayName field.
- B. Use classes in the System.Data namespace to query the attribute table in the Microsoft CRM metabase database to find the current names.
- C. Use the RetrieveAttributeMetadata method of the MetadataService web service to find the current names.
- D. Use the RetrieveMultiple method of the CrmService web service with a QueryExpression parameter to return all attribute names for each entity.

Answer: C

Question: 49

You have been asked to add a menu item to the Microsoft CRM appointment form. This menu item will run some client-side script that displays a dialog box showing the number of attendees for the appointment. What is the simplest way to do this?

- A. Write the client-side code in VB Script. Add this code to the Script attribute of the MenuItem element.
- B. Write the client-side code in JScript. Add this code to the JavaScript attribute of the MenuItem element.
- C. Create a custom HTML page that contains the client-script code, which will run on the window onload event. Add the URL for this web page to the URL attribute of the MenuItem element.
- D. Use the Microsoft CRM customization tools to modify the OnLoad event of the appointment form. Within this event, write code that will replace the onclick event of the MenuItem with the client-side code to display the number of attendees.

Answer: B

Question: 50

You have been asked to write some client-side code that checks whether a lead is rated as hot. The rating of lead is stored in the picklist field leadqualitycode, which has the following values:

1 Hot 2 Warm 3 Cold

You are aware that, in the future, your company may want to change the text associated with the three possible values, and you would like this to have as little an impact on your code as possible. How should you test for a lead rated as hot?

- A. Use the following line of code: `if (crmForm.all.leadqualitycode.DataValue == "1")`
- B. Use the following line of code: `if (crmForm.all.leadqualitycode.DataValue == "Hot")` If the text is changed, update the code to reflect the new text.
- C. Use the following line of code: `if (crmForm.all.leadqualitycode.DataValue == 1)`
- D. Use the following line of code: `if (crmForm.all.leadqualitycode.SelectedText == "Hot")` If the text is changed, update the code to reflect the new text.

Answer: A

Question: 51

You have created a custom web page that should be displayed within an IFrame in the Microsoft CRM contact form. The custom

page appears to display correctly. You have written code in the onchange event of the city field in the contact form that tries to access Dynamic HTML content within the page hosted by the IFrame, however the code always fails. Identical code works correctly when hosting the same page within the account form. What is the most likely cause of the problem?

- A. The web page in the IFrame has not yet fully loaded.
- B. The web page in the IFrame is in a different domain from the contact form, and Internet Explorer security settings prevent the code from working.
- C. The "Restrict cross-frame scripting" property is set to true on the Iframe.
- D. The "Pass record object-type code and unique identifier as parameters" is set to false on the Iframe.

Answer: C

Question: 52

You have been asked to add a new Application Area called Internal Applications to the Microsoft CRM application. How should you do this?

- A. Edit the SiteMap.xml file in the _Resources folder in the CRM web site.
- B. Use the Export Customizations page to export SiteMap to a local file. Edit the local file. Use the Import Customizations page to import the SiteMap from the local file.
- C. Edit the isv.config.xml file in the _Resources folder in the CRM web site.
- D. Use the Export Customizations page to export the ISV.Config to a local file. Edit the local file. Use the Import Customizations page to import the SiteMap from the local file.

Answer: B

Question: 53

You have been asked to add custom validation code that determines whether the Estimated Close Date field of an Opportunity is required, based on the values of other fields of the Opportunity. You want to give the user as much feedback as possible, as soon as possible, about when the Estimated Close Date is required. How should you do this?

- A. Use a workflow rule and workflow assembly to do the validation, and email the user if they need to specify the Estimated Close Date.
- B. Use client-side Java Script in the form's OnSave event for the validation code, which can notify the user and prevent changes from being saved.
- C. Use a Pre-Callout to do the validation, and return a message to the user if they need to specify the Estimated Close Date.
- D. Use a Post-Callout to do the validation, and use the MetadataService to change the requirement level of the Estimated Close Date field.

Answer: B

Question: 54

You have written a PostUpdate callout that updates an external application whenever a Microsoft CRM account record is changed. The process of updating the external application can be slow, and users are complaining that it can take a long time to save an account record through the Microsoft CRM user interface, and they occasionally get timeout errors. What should you do to improve the response time for users, and reduce the risk of timeout errors?

- A. In callout.config.xml, add the following attribute to the subscription element for the callout: timeout="2"
- B. In callout.config.xml, add the following attribute to the subscription element for the callout: timeout="120"
- C. Rewrite the callout as a PreUpdate callout.
- D. Rewrite the callout code to make the updates to the external application asynchronously.

Answer: D

Question: 55

You are about to create a callout assembly. What steps must you take to create and build an assembly that can be deployed on a Microsoft CRM Server? Select two answers. Each correct answer forms part of the complete solution Choose the 2 that apply.

- A. Assign a strong name to the callout assembly.
- B. Create a reference to the assembly microsoft.crm.platform.callout.base.dll.
- C. Create a reference to the web service CrmService.
- D. Compile the assembly against .Net Framework 1.1.

Answer: B, D

Question: 56

You are using the CrmService web service to create a new task, and associate it with an account. To do this you need to set the value of the task object's regardingobjectid field. What do you need to set on the regardingobjectid field?

- A. Set the type property to EntityName.account.ToString(). Set the value property to the ID of the account.
- B. Set the name property to the name of the account.
- C. Set the type property to EntityName.account.ToString(). Set the name property to the name of the account.
- D. Set the value property to the ID of the account. Set the name property to the name of the account.

Answer: A

Question: 57

One of your company's developers has extended the Microsoft CRM user interface by adding buttons to the toolbar on the account entity form. The buttons display correctly within the Microsoft CRM web client, but do not display within either the CRM Desktop Client for Outlook or the CRM Laptop Client for Outlook. Which of the following configurations could give this behavior?

- A. In ISV.Config, the definitions for the Button elements have the attribute AvailableOffline = "false".
- B. In ISV.Config, the definition for the ToolBar element that contains the button elements has the attribute AvailableOffline = "false".
- C. In web.config, the add element with the key attribute "ISVIntegration" has the value attribute "Web".
- D. In SiteMap, the definitions for the Button elements have the attribute AvailableOffline = "false".

Answer: C