

Extending Microsoft Dynamics CRM 2011 @ Prometric

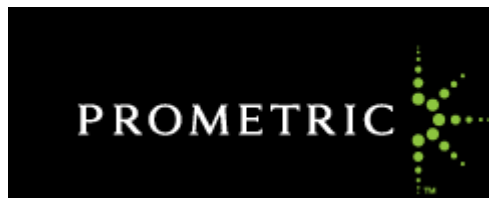
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Extending Microsoft Dynamics CRM 2011

MB2-876



Exam A

QUESTION 1

Which of the following file types does Microsoft Dynamics CRM 2011 support as style sheet web resources? (Each correct answer presents a complete solution. Choose two.)

- A. .xsv files
- B. .xsl files
- C. .dssl files
- D. .xslt files

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

CRM supports CSS, XSL and XSLT files as web resources.

QUESTION 2

You plan to develop webpages for Microsoft Dynamics CRM 2011. You need to execute code in webpages that are uploaded as web resources.

What should you use.?

- A. client-side JScript code in ASPX files
- B. client-side JScript code in HTML files
- C. server-side C# code in ASPX files
- D. server-side C# code in HTML files

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Web resources cannot fire ANY server-side code, there is no equivalent of an ASP.NET web resource. The only option then is to use client side code and if we rule out ASPX (there is no web resource for this type) then that leaves the HTML.

QUESTION 3

You create a Microsoft Silverlight web resource that will access Microsoft Dynamics CRM 2011 data by using the REST endpoint.

Which of the following operations are supported by the web resource? (Each correct answer presents a complete solution. Choose three.)

- A. Create entity records
- B. Late binding
- C. Assign entity records
- D. Retrieve entity records
- E. Execute messages
- F. Early binding

Correct Answer: ADF

Section: (none)

Explanation

Explanation/Reference:

The REST endpoint for CRM only permits CRUD operations (create, read, update, delete) and so the

recommendation (<http://msdn.microsoft.com/en-us/library/gg334279.aspx>) is to use early-binding for a Silverlight web resource (in fact you can't use late binding).

QUESTION 4

You create three image web resources that contain PNG images of the colors red, green, and yellow. You plan to use these images on the Account form as visual indicators of the Account's credit rating. How should you use the web resources on the Account form?

- A. Use JScript in the credit rating's OnChange event to dynamically load the required web resource.
- B. Create an iFrame containing an HTML page that executes JScript to dynamically load the required web resource.
- C. Insert the web resources into the Account form and then use JScript to show or hide the appropriate web resources.
- D. Use JScript in the Account form's OnLoad event to dynamically load the required web resource.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

The simplest solution would be to ensure that all images are on the form and that Javascript is fired onLoad of the form and onChange of the field to display/hide as appropriate.

QUESTION 5

You need to configure Windows Internet Explorer to enable debugging of client-side JScript code. Which of the following settings should you configure? (Each correct answer presents part of the solution. Choose three.)

- A. Add the Microsoft Dynamics CRM 2011 website to the "Local Intranet" security zone.
- B. Set script debugging to on.
- C. Set enable third-party browser extensions to on.
- D. Set load page content to Every Time.
- E. Set friendly errors to off.

Correct Answer: BDE

Section: (none)

Explanation

Explanation/Reference:

Microsoft recommends that to debug client side JScript, IE is configured with 1) Load Page Content ="Every time", 2) Friendly errors = off and 3) Script debugging = on. They also recommend that DevErrors is set to "on" in the web.config of an on-premises CRM.

QUESTION 6

Which of the following statements about late-bound entity classes is true?



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- A. Developers can access late-bound entity class attributes and be type-safe.
- B. Developers can work with custom entities and custom attributes that are not available at compile time.

- C. Late-bound entity classes perform data access functions more efficiently than early-bound entity classes.
- D. Custom code written for late-bound entity classes uses less Microsoft Dynamics CRM 2011 resources than custom code written for early-bound entity classes.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

The key advantage of late bound entity classes is that custom entities and attributes not available at compile time can still be referenced through the generic Entity("") class. These custom objects are checked at run-time only.

QUESTION 7

You develop a Microsoft Silverlight 4.0 application that uses the Microsoft Dynamics CRM 2011 REST endpoint. The application resides in a web resource in a custom solution that is installed in the Microsoft Dynamics CRM 2011 organization. You have a new requirement for out-of-browser execution of the Silverlight application.

Which of the following statements about the Silverlight application is true?

- A. The out-of-browser version of the application will provide the same functionality as the web resource version.
- B. All data access must be converted to use the SOAP endpoint instead of the REST endpoint.
- C. The application must be rewritten to make use of late-bound entity classes.
- D. All data access must be converted to use JScript code instead of the Microsoft .NET Framework.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

The authenticate against the REST endpoint the Silverlight resource must be hosted within Microsoft CRM (<http://msdn.microsoft.com/en-us/library/gg309342.aspx>). If the Silverlight is now to run stand-alone then the SOAP endpoint is the only option.

QUESTION 8

In Microsoft Dynamics CRM 2011, you create several web resources containing PNG and ICO images. Which of the following statements about using image web resources is true?

- A. Image web resources can be used only for ribbon button controls.
- B. Image web resources cannot be used for ribbon button controls or site map subareas.
- C. Image web resources can be used only for site map subareas.
- D. Image web resources can be used for ribbon button controls and site map subareas.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Image web resources can be used for:

1. Custom entity icons
2. Icons for custom Ribbon controls and SiteMap subareas
3. Decorative graphics for entity forms and Web page Web resources.
4. Background images that are used by CSS Web resources

REF: <http://msdn.microsoft.com/en-us/library/gg334549.aspx>

QUESTION 9

Which of the following file types does Microsoft Dynamics CRM 2011 support as data web resources?

- A. .mdb files
- B. .mdf files
- C. .xml files
- D. .csv files

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

XML is the only data file type supported for web resources. Although CSV can be imported in to CRM 2011 using the import manager, they are not a web resource type.

QUESTION 10

Which of the following statements about passing parameters to a Microsoft Dynamics CRM 2011 HTML web resource is true?

- A. The webpage accepts only existing system attributes as query string parameters.
- B. The webpage accepts a maximum of eight custom query string parameters.
- C. The webpage accepts only one custom query string parameter.
- D. The webpage accepts unlimited custom query string parameters.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

HTML pages and Silverlight web resources can only accept one custom query string parameter – called data. Within data however you can concatenate your own multiple values but you will have to parse these out yourself in your code.

QUESTION 11

You need to reference a cascading style sheet (CSS file) in a Microsoft Dynamics CRM 2011 HTML web resource.

How should you deploy the CSS file?

- A. Upload the CSS file to the CSS folder on the web server.
- B. Pack the CSS file and the HTML file in an archive file and upload the archive file as a web resource.
- C. Upload the CSS file to the ISV folder on the web server.
- D. Upload the CSS file as a web resource.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Uploading the CSS as a resource file will allow you to reference it from your HTML web resource with a non-changing relative path.

QUESTION 12

Which of the following statements about workflows in Microsoft Dynamics CRM 2011 are true? (Each correct answer presents a complete solution. Choose two.)

- A. Workflows can be run in sandbox mode.
- B. Custom XAML workflows in Microsoft Dynamics CRM Online 2011 are permitted.
- C. Custom XAML workflows in Microsoft Dynamics CRM 2011 on-premises are permitted.
- D. Custom workflow activities in Microsoft Dynamics CRM 2011 on-premises are permitted.
- E. Custom workflow activities in Microsoft Dynamics CRM Online 2011 are permitted.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Building a whole XAML custom workflow or designing a custom workflow activity step are both only supported for on-premises and not online. Although this may be relaxed in future versions of CRM 2011.

QUESTION 13

What is the minimum version of the Microsoft .NET Framework that Microsoft Dynamics CRM 2011 uses for workflows?

- A. .NET Framework 4
- B. .NET Framework 1.1
- C. .NET Framework 2.0
- D. .NET Framework 3.5

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

To develop Windows Workflow Foundation 4.0 custom activities, developers must use Microsoft Visual Studio 2010. This requires Microsoft .NET Framework 4.0.

QUESTION 14

From which .NET class do all Microsoft Dynamics CRM 2011 custom workflow activities inherit?

- A. CodeActivity
- B. CrmWorkflow
- C. CrmWorkflow Activity
- D. SequenceActivity

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

To create a custom workflow activity, create a class that inherits from the CodeActivity workflow base class.

QUESTION 15

Which of the following statements about custom XAML workflows in Microsoft Dynamics CRM 2011 are true?

- A. A custom XAML workflow will run synchronously after the event that triggered the workflow occurs.
- B. You can use a custom XAML workflow without compiling it.
- C. You must use Windows PowerShell scripts to enable a custom XAML workflow.
- D. Custom XAML workflows created outside of the Microsoft Dynamics CRM 2011 environment can be modified in the Microsoft Dynamics CRM Process Designer.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Custom XAML can be used without being compiled (<http://msdn.microsoft.com/en-us/library/gg309458.aspx>).

QUESTION 16

Which of the following Microsoft Dynamics CRM 2011 data access tasks are REST endpoints? (Each correct answer presents a complete solution. Choose two.)

- A. Retrieve Metadata
- B. Associate and Disassociate Records
- C. Create, Retrieve, Update, and Delete Records
- D. Assign Records
- E. Execute Messages

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

For the REST service only Create, Retrieve, Update and Delete actions can be performed on entity records. Messages that require the Execute method cannot be performed. Associate and disassociate actions can be performed by using navigation properties. See <http://msdn.microsoft.com/en-us/library/gg334279.aspx>

QUESTION 17

What does the Microsoft Dynamics CRM 2011 Report Wizard use to define the query on which a custom report is based?

- A. Microsoft Dynamics CRM SQL Views
- B. QueryExpression
- C. FetchXML
- D. JScript

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Fetch is a proprietary query language that is used in Microsoft Dynamics CRM.

QUESTION 18

You need to ensure that a Microsoft Dynamics CRM 2011 application can pass run-time message data to a Windows Azure solution. What should you use? (Each correct answer presents a complete solution. Choose two.)

- A. SQL Azure Data Sync
- B. Windows Azure Traffic Manager
- C. Windows Azure Worker Role
- D. Access Control Services
- E. AppFabric Service Bus

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

The Access Control Services (ACS) manages claims based authentication security and AppFabric Service Bus is where messages are posted to enable communication.

QUESTION 19

You plan to integrate an interactive webpage with Microsoft Dynamics CRM 2011. Which of the following integration options are supported?

- A. Copy an ASPX file into the <crmwebroot>\ISV folder on the Microsoft Dynamics CRM 2011 web server.
- B. Copy an XAP file into the <crmwebroot>\ISV folder on the Microsoft Dynamics CRM 2011 web server.
- C. Upload an ASPX file as a web resource.
- D. Upload an HTML file as a web resource.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

ASPX pages are not supported as CRM web resources. A Silverlight XAP is supported but would be deployed as a web resource. HTML pages are supported as web resources.

QUESTION 20

You create a group of user-owned records. You need to ensure that another user can access the records. Which privileges should you set on the record entity? (Each correct answer presents a complete solution. Choose two.)

- A. Share
- B. Assign
- C. Reparent
- D. Append To
- E. Create

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

The two possible ways in which a record could be shared are either to use the CRM SHARE privilege or to completely reASSIGN it to a new user. Ref: http://technet.microsoft.com/en-us/library/gg334673.aspx#BKMK_SharingInstances

QUESTION 21

What is the purpose of adding a field or fields to the non-event dependency list?

- A. To set the requirement level of the field to system required.
- B. To prevent users from unintentionally removing fields required by custom code.
- C. To ensure that calculated fields will always work.
- D. To lock a form field.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

This is set for information only so it is clear what fields custom code relies upon.

QUESTION 22

Which of the following are considered best practices when writing client-side JScript code for Microsoft Dynamics CRM 2011? (Each correct answer presents part of the solution. Choose three.)

- A. Use the Xrm.Page Script Library template to provide JScript IntelliSense.
- B. Assign the development of entities to specific developers.
- C. Use a version control system.
- D. Develop code in a code editor.
- E. Use block comments: /* */.

Correct Answer: ADE

Section: (none)

Explanation

Explanation/Reference:

Microsoft suggests that the use of a codeeditor with the library template included and commenting code are best practice.

QUESTION 23

Which communication technology does Microsoft Dynamics CRM 2011 utilize for data access?

- A. WCF
- B. SOAP
- C. HTTP
- D. REST

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Windows Communication Foundation is the fundamental communication technology for which there are SOAP and REST end points.

QUESTION 24

Which query string parameter should you use to pass additional parameters to the Contact form in Microsoft Dynamics CRM 2011?

- A. additionalParms
- B. extraqs
- C. isv_querystring
- D. custom

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

extraqs is an optional parameter for forms. This parameter can contain additional encoded parameters.

QUESTION 25

In which of the following formats does the REST endpoint in Microsoft Dynamics CRM 2011 return data? (Each correct answer presents a complete solution. Choose two.)

- A. JSON
- B. ATOM
- C. CSV
- D. HTML
- E. XML

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

The REST end point (an oData end point) can return data as JSON or ATOM.

QUESTION 26

Which of the following application events are supported within Microsoft Dynamics CRM 2011? (Each correct answer presents a complete solution. Choose three.)

- A. onBlur
- B. OnChange
- C. attachEvent
- D. onclick
- E. TabStateChange
- F. OnSave

Correct Answer: BEF

Section: (none)

Explanation

Explanation/Reference:

OnLoad and OnSave events are available for Forms and onChange for fields. TabStateChange is available for tabs and OnReadyStateComplete for IFRAMES.

QUESTION 27

You are developing a Microsoft Dynamics CRM 2011 application that includes custom plug-ins. You need to monitor the execution of the custom plug-ins for performance testing. Which type of entity records should you reference?

- A. PluginTypeStatistic
- B. Workflowing
- C. Audit
- D. ProcessSession

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

The Microsoft Dynamics CRM platform collects run-time information on plugins that execute in the sandbox. This information is stored in the database using PluginTypeStatistic entity records.

QUESTION 28

You are developing a synchronous plug-in in Microsoft Dynamics CRM 2011. You need to display a custom error message in a web application dialog when an exception occurs. What should you do?

- A. Use the Show () method of the MessageBox class.
- B. Throw an ArgumentException exception in an asynchronous plug-in.
- C. Write the message into an AsyncOperation record related to the plug-in.
- D. Throw an InvalidPluginExecutionException exception.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

For synchronous plug-ins, the Microsoft Dynamics CRM platform handles exceptions passed back to the platform by displaying an error message in a dialog of the web application user interface. The plug-in can display a custom error message in the web application by throwing an InvalidPluginExecutionException exception

QUESTION 29

You need to implement a non-interactive synchronous business process in Microsoft Dynamics CRM 2011. Which of the following should you use?

- A. dialog
- B. plug-in
- C. workflow
- D. trigger

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Dialogs are interactive, workflows run asynchronously and triggers are database-level and not relevant for CRM. Plug-Ins can be registered to run synchronously and are non-interactive.

QUESTION 30

You are developing a Microsoft Dynamics CRM 2011 application that has early-bound entity classes. Which of the following statements about early-bound entity classes is true?

- A. You can use the CrmSvcUtil.exe tool to create an early-bound entity class.
- B. Early-bound entity classes are available only after the application is compiled.
- C. You must access the ReturnDynamicEntities property to get information about an early-bound entity class.
- D. You can add new attributes to an early-bound entity class.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

CrmSvcUtil.exe is the correct way to create early bound entities.

QUESTION 31

In Microsoft Dynamics CRM 2011, which stage of the event pipeline can have a custom plug-in registered to perform actions during the event execution? (Each correct answer presents a complete solution. Choose three.)

- A. Post-operation
- B. Pre-validation

- C. MainOperation
- D. Pre-operation
- E. Initialization

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

There is no initialization stage and it is not permitted to register plugs in for the MainOperation stage.

QUESTION 32

Which Microsoft Dynamics CRM 2011 element contains the XML that defines the main data entry form for the Account entity?

- A. the FormXml file
- B. the Account entity
- C. the OrganizationalUI entity
- D. the SystemForm entity

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

The form definition is stored in the FormXml structure which is contained within the SystemForm entity in CRM. FormXML is not a file but it can be downloaded as part of the Customizations.xml file. Ref: <http://msdn.microsoft.com/en-us/library/gg334527.aspx>

QUESTION 33

You need to edit the site map to include two custom entities. What should you do? (Each correct answer presents part of the solution. Choose three.)

- A. Export an unmanaged solution containing the site map.
- B. Edit the site map directly in Microsoft Dynamics CRM 2011.
- C. Add new <Title> elements to the site map XML for each entity.
- D. Add new <SiteMap> elements to the site map XML for each entity.
- E. Import the solution containing the site map.
- F. Add new <Area> elements to the site map XML for each entity.

Correct Answer: ACE

Section: (none)

Explanation

Explanation/Reference:

The site map can be edited by exporting it as part of a solution or reimporting it. Codeplex also contains a site map editor now too which makes life a lot easier! When working with the exported solution however, the element to add will be a SubArea Title. the Area element is used for the top level sections in the site map (Marketing, Settings etc.)

QUESTION 34

You embed an iFrame on the Microsoft Dynamics CRM 2011 Account form to display a Microsoft Bing Map. You need to ensure that the map renders fully within the iFrame before attempting to access the map's properties.

Which client-side JScript event should you use?

- A. OnReadyStateComplete
- B. loadComplete
- C. readyState
- D. iFrameReady

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

The OnReadyStateComplete event indicates the content of the IFRAME has loaded and can be accessed in code.

QUESTION 35

Describe how changes made to the Microsoft Dynamics CRM 2011 site map affect the Microsoft Dynamics CRM 2011 for Microsoft Office Outlook folder tree.

- A. Site map customizations of the web client do not alter the folder tree in Microsoft Dynamics CRM for Outlook.
- B. The site map is automatically converted to an alphabetized folder tree in Microsoft Dynamics CRM for Outlook.
- C. The site map is automatically downloaded to Microsoft Dynamics CRM for Outlook. The user must decide how and where to display the folder tree.
- D. The site map is displayed in Microsoft Dynamics CRM for Outlook in a folder tree that exactly matches the web client.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Microsoft Outlook presents each navigation area in alphabetical order in a tree view instead of using the order specified in the Site Map.

QUESTION 36

You create a customization for Microsoft Dynamics CRM Online 2011 that uses the `Xrm.Page.context.getServerUrl()` method to retrieve the URL for the currently displayed view. Which of the following statements is true?

- A. The URL will be valid outside of Microsoft Dynamics CRM 2011.
- B. The displayed view will include the Microsoft Dynamics CRM 2011 ribbon.
- C. The query string of the retrieved URL cannot include arguments.
- D. The URL will not be valid from within Microsoft Dynamics CRM 2011.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

The `Xrm.Page.context.getServerUrl` method includes a trailing forward slash character in Microsoft Dynamics CRM Online. If this trailing forward slash is not removed, the Ribbon will not display.

QUESTION 37

You are developing a Microsoft Dynamics CRM 2011 application that includes late-bound entity classes. Which of the following statements about late-bound entity classes is true?



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- A. You must access the ReturnDynamicEntities property to get information about a late-bound entity class.
- B. You can add new attributes to a late-bound entity class.
- C. All late-bound entity classes are type-safe.
- D. You must use the CrmSvcUtil.exe tool to create a late-bound entity class.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

ReturnDynamicEntities is deprecated between CRM 4.0 and 2011, late-bound entities are not type safe as late-bindings means we have no knowledge of the types in advance, CrmSvcUtil.exe is used for early-binding.

QUESTION 38

You plan to save a view from a query created against the Opportunity entity class in a Microsoft Dynamics CRM 2011 application.

Which of the following statements are true? (Each correct answer presents a complete solution. Choose three.)

- A. Users can grant the Read privilege to other users or to their teams.
- B. Users can grant the Assign privilege to other users or to their teams.
- C. Saved views have Read privileges by default for the user's team.
- D. Saved views cannot be shared with other users or teams.
- E. Users can grant the Append privilege to other users or to their teams.

Correct Answer: ABE

Section: (none)

Explanation

Explanation/Reference:

A query that is saved as a view in this fashion will be saved as a Personal View. Users can then share these with other users or teams but members of the user's current team will NOT have read privilege by default on the view.

QUESTION 39

You are creating a plug-in for Microsoft Dynamics CRM 2011. You have code that creates a Request object and a Response object. You need to assign an account to another user. What should you do? (Each correct answer presents a complete solution. Choose two.)

- A. Pass a SecurityPrincipal object that references the logged-in user to the Request object.
- B. Pass a WindowsPrincipal object that references the logged-in user to the Request object.
- C. Pass the identifier for the account to the Target property of the Request object.
- D. Pass the Request and Response objects to the Execute () method.
- E. Return the results of the Execute () method to the Response object.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Because reassigning can apply to multiple entity types, the request must specify in the Target attribute the GUID of the record to be reassigned. Execute is called on the Request object and the results passed to the Response object. A SecurityPrincipal object must be passed but this references the user we wish to assign to, not the logged-in user.

QUESTION 40

You are developing a Microsoft Dynamics CRM 2011 application. You plan to use a LINQ statement to query data.

Which of the following LINQ operators are supported by Microsoft Dynamics CRM 2011? (Each correct answer presents a complete solution. Choose three.)

- A. Inner Joins
- B. orderBy
- C. from
- D. Outer Joins
- E. groupBy

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

A list of the supported and not supported LINQ operations is here: <http://msdn.microsoft.com/en-us/library/gg328328.aspx>

QUESTION 41

You plan to develop a Windows application for Microsoft Dynamics CRM 2011 by using Microsoft Visual Studio 2010. You need to ensure that you can use the IOrganizationService interface of the Organization Service web service.

Which assembly reference should you add to the project?

- A. Microsoft.Xrm.Sdk.dll
- B. Microsoft.Crm.SdkTypeProxy.dll
- C. Microsoft.Crm.Callout.Base.dll
- D. Microsoft.Crm.Sdk.dll

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

To use the **Organization Service** web service, add a reference to Microsoft.Xrm.Sdk.dll assembly to the Microsoft Visual Studio project. To access the non-core xRM messages, also add a reference to the Microsoft.Crm.Sdk.Proxy.dll assembly to your project.

QUESTION 42

You are developing a Microsoft Dynamics CRM 2011 application that uses requests and responses. Which type of data message can include a Target property for use when the message is applied to a different entity type?

- A. CreateRequest
- B. QueryExpressionToFetchXml
- C. SendEmailRequest
- D. WhoAmI

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Creates a record of any type that supports the **Create** message. This includes custom entities. Since it can work on many different entities, a Target is required.

QUESTION 43

Which function in the GlobalContext class returns the base language for the user's organization?

- A. getCurrentTheme
- B. getServerUrl
- C. getOrgLcid
- D. getAuthenticationHeader

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

getOrgLcid has information about the organisation-wide settings.

QUESTION 44

You are developing a JScript-based script for Microsoft Dynamics CRM 2011. You need to ascertain the security roles with which the current user is associated.

Which method should you use?

- A. Xrm.Page.context.getUserRoles()
- B. Xrm.Page.ui.getUserRoles()
- C. Xrm.Page.data.getUserRoles()
- D. Xrm.Page.data.entity.getUserRoles()

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

getUserRoles returns an array of strings that represent the GUID values of each security role that the user is associated with. It is called in the context of Xrm.Page.context.

QUESTION 45

You are adding custom JScript code to a Microsoft Dynamics CRM 2011 form. Why should you use the Xrm.Page.getFormType() method to check the form type before performing operations on form fields?

- A. To determine whether field-level security has modified the form layout.
- B. To ensure that the JScript code will work as expected for the form on which the script is running.
- C. To verify the user's current security roles.
- D. To ensure that a specified form field is enabled.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

The mode in which the form loads will specify whether it is read only, disabled etc. Javascript code should always check this to ensure that the operation to be executed is valid for the current form state.

QUESTION 46

You are developing a JScript-based script for Microsoft Dynamics CRM 2011. You need to close the current form.

Which method should you use?

- A. `document.close();`
- B. `Xrm.Page.ui.close();`
- C. `Xrm.Page.ui.formSelector.items.get()[0].navigate();`
- D. `window.close();`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Ref: <http://msdn.microsoft.com/en-us/library/gg327828.aspx>

QUESTION 47

You are developing a JScript-based script for Microsoft Dynamics CRM 2011. You need to save and close the current form.

Which method should you use?

- A. `Xrm.Page.data.entity.save("saveandclose");`
- B. `Xrm.Page.data.entity.save(true);`
- C. `Xrm.Page.data.entity.removeOnSave("saveandclose");`
- D. `Xrm.Page.data.entity.addOnSave("saveandclose");`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Ref: <http://msdn.microsoft.com/en-us/library/gg334720.aspx>

QUESTION 48

What is the purpose of the `Xrm.Page.context.getUserRoles()` method?

- A. To return an `EntityCollection` containing the security roles assigned to the current user.
- B. To return an array of strings that represent the names of the security roles assigned to the current user.
- C. To return an array of GUIDs that represent the IDs of the security roles assigned to the current user.
- D. To return an object array containing the IDs and names of the security roles assigned to the current user.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

`getUserRoles` returns an array of strings that represent the GUID values of each security role that the user is associated with.

QUESTION 49

You are developing a Microsoft Dynamics CRM 2011 application. Which of the following operations must be performed by using an `Execute()` method call?

- A. Retrieve
- B. Assign
- C. Update
- D. Create
- E. Delete

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

CRUD operations can be performed directly. An assignment must be implemented with the message-based EXECUTE approach.

QUESTION 50

You plan to develop a Windows application for Microsoft Dynamics CRM 2011 by using Microsoft Visual Studio 2010.

Which class of the Organization Service web service should you use to retrieve an account record?

- A. Object
- B. DynamicEntity
- C. Customer
- D. Entity

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Ref: <http://msdn.microsoft.com/en-us/library/microsoft.xrm.sdk.entity.aspx>

QUESTION 51

What do entity-specific requests use instead of a Target property?

- A. Entity Name
- B. Request Response Name
- C. user ID
- D. Entity-Identifying ID

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Entity-specific requests do not have a **Target** property, instead they take entity-identifying information such as an ID.

QUESTION 52

Which value is returned by the Xrm.Page.ui.getFormType() method when a user creates a new record in Microsoft Dynamics CRM 2011?

- A. 3
- B. 4
- C. 2

D. 1

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Ref: http://msdn.microsoft.com/en-us/library/gg327828.aspx#BKMK_getFormType

QUESTION 53

You are developing a JScript-based script for Microsoft Dynamics CRM 2011. You need to identify the form type of the current form.

Which method should you use?

- A. `crmForm.FormType();`
- B. `Xrm.Page.getControl("formtype");`
- C. `crmForm.all.formtype();`
- D. `Xrm.Page.ui.getFormType();`

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

ref: http://msdn.microsoft.com/en-us/library/gg327828.aspx#BKMK_getFormType

QUESTION 54

Within what type of web resources does the `GetGlobalContext` function give access to context information? (Each correct answer presents a complete solution. Choose two.)

- A. JScript web resources
- B. Microsoft Silverlight web resources
- C. ASP.NET web resources
- D. GIF web resources
- E. HTML web resources

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

`GetGlobalContext` is useful for web resource types that are hosted within CRM so Silverlight and HTML. Ref: <http://msdn.microsoft.com/en-us/library/gg328541.aspx>

QUESTION 55

You are developing a Microsoft Dynamics CRM 2011 application that will query data by using aggregations. Which query style should you use?

- A. `QueryExpression`
- B. `OData`
- C. `LINQ`
- D. `FetchXML`

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

FetchXML is the only approach that supports all the features of **QueryExpression** plus aggregates and grouping. Queries are built as XML statements. oData is not a query style, it is the querying endpoint.

QUESTION 56

You are adding custom JScript code to the Account entity. The custom code will retrieve data from an associated Contact by using the SOAP protocol.

Which method returns the SOAP header that will properly pass the user's credentials as part of the SOAP call?

- A. Xrm.Page.context.getAuthenticationHeader()
- B. Xrm.Page.context.getUserId()
- C. GenerateAuthenticationHeader()
- D. Xrm.Page.context.getUserLcid()

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

This question seems wrong, getAuthenticationHeader does return the SOAP header but it is deprecated for CRM 2011. Ref: <http://msdn.microsoft.com/en-us/library/gg328399.aspx>

QUESTION 57

You are creating a custom workflow activity in Microsoft Dynamics CRM 2011. Which assemblies should you reference? (Each correct answer presents part of the solution. Choose two.)

- A. Microsoft.Crm.Sdk.Proxy.dll
- B. Microsoft.Xml.Sdk.Deployment.dll
- C. Microsoft.Xrm.Sdk.Workflow.dll
- D. Microsoft.Xrm.Sdk.dll

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

ref: <http://msdn.microsoft.com/en-us/library/gg328515.aspx>

QUESTION 58

You plan to implement a dialog in Microsoft Dynamics CRM 2011. Which response types are available in the context of a page? (Each correct answer presents a complete solution. Choose three.)

- A. Single Line
- B. Floating Point Number
- C. Multiple Lines
- D. Whole Number
- E. Option Set

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

Ref: <http://blogs.msdn.com/b/crm/archive/2011/02/15/dialogs-using-variables-and-input-arguments.aspx>

QUESTION 59

You plan to debug Microsoft Dynamics CRM 2011 custom workflow activities in Microsoft Visual Studio 2010. To which process should you attach?

- A. CrmAsyncService.exe
- B. w3wp.exe
- C. Microsoft.Crm.Application.Host.exe
- D. Microsoft.Crm.Sandbox.WorkerProcess.exe

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Ref: <http://msdn.microsoft.com/en-us/library/gg327856.aspx>

QUESTION 60

Which of the following authentication methods are supported by Microsoft Dynamics CRM 2011? (Each correct answer presents a complete solution. Choose two.)

- A. Forms-Based Authentication
- B. OAuth2
- C. Basic Claims Authentication
- D. Active Directory Authentication

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Ref: <http://technet.microsoft.com/en-us/library/gg188597.aspx>

QUESTION 61

What does the Microsoft Dynamics CRM 2011 Application layer use to communicate with the underlying framework layers?

- A. Web sockets
- B. Web services
- C. Microsoft ADO.NET
- D. Open Database Connectivity (ODBC)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

This is shown in the high level CRM architecture diagrams.

QUESTION 62

You are creating a Microsoft Dynamics CRM 2011 plug-in. Which plug-in deployment options are supported? (Each correct answer presents a complete solution. Choose two.)

- A. cloud
- B. client

- C. web
- D. server

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Plus-in can either be deployed to the CRM database or to the local disk (for on-premises deployment).

QUESTION 63

You create a plug-in for Microsoft Dynamics CRM 2011. The plug-in code must run within the context of a database transaction and execute before new entity records are created. You need to register the plug-in so that it executes during the correct stage of the event pipeline.

Which stage should you choose?

- A. Pre-validation
- B. Pre-operation
- C. MainOperation
- D. Post-operation

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Pre-Operation (20) ensures that the plug-in executes before the main operation and inside any database transaction.

QUESTION 64

You are developing a Microsoft Dynamics CRM 2011 solution that includes ribbon customizations. You need to add a command to the ribbon XML to create a navigation link to a website.

What should you do?

- A. Add a <Url> element to the <DisplayRules> element of a command definition.
- B. Add a URL attribute to a <CommandDefinition> element.
- C. Add a <Url> element to the <Action> element of a command definition.
- D. Add an Action attribute to a <CommandDefinition> element.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

This is the correct node structure for opening a URL for a ribbon button.

QUESTION 65

For which of the following entities does Microsoft Dynamics CRM 2011 enable document management by default? (Each correct answer presents a complete solution. Choose two.)

- A. Lead
- B. Contact
- C. Service
- D. Account
- E. Order

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Ref: <http://msdn.microsoft.com/en-us/library/gg334633.aspx>

QUESTION 66

You are modifying a Microsoft Dynamics CRM 2011 application. You plan to add an Area named Corporate to the site map XML. You need to ensure that the Area name is shown in the Microsoft Dynamics CRM 2011 navigation pane.

Which attribute should you set to "Corporate" in the site map XML?

- A. DescriptionResourceId
- B. Title
- C. ResourceId
- D. Id
- E. Name

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

The Title element provides a localized text to display in the navigation.

QUESTION 67

You are developing a Windows application for Microsoft Dynamics CRM 2011 by using Microsoft Visual Studio 2010.

What should you use to create, update, and retrieve records?

- A. CrmSvcUtil
- B. Microsoft.Crm.Sdk.Proxy
- C. IDiscoveryService
- D. IOrganizationService

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

IOrganizationService is for entity interaction.

QUESTION 68

You need to quickly ascertain the Microsoft Dynamics CRM 2011 Server organizations to which a user has access.

What should you do?

- A. Create an OrganizationServiceProxy object.
- B. Call the IDiscoveryService service.
- C. Call the IOrganizationService service.
- D. Query the Microsoft Dynamics CRM 2011 organization database.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

A single Microsoft Dynamics CRM installation can host multiple organizations on multiple servers therefore it is important to specify which organizations need to be accessed. The Discovery Web service returns a list of the organization the specified user belongs to and the URL endpoint address for each organization.

QUESTION 69

Which of the following data types is available to developers when interacting with the Microsoft Dynamics CRM 2011 platform?

- A. DynamicEntity[]
- B. Lookup
- C. OptionSetValue
- D. UniqueIdentifier

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

OptionSetValue is valid for CRM 2011 - all other types are deprecated from CRM v4.0. Ref: <http://msdn.microsoft.com/en-us/library/gg328507.aspx>

QUESTION 70

You need to display a list of the customer accounts to which a specific user has access. What should you do?

- A. Call the Retrieve() method.
- B. Call the RetrieveAllEntitiesRequest() method.
- C. Call the RetrieveAll() method.
- D. Call the RetrieveMultipleRequest() method.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Retrieve returns a single record, RetrieveAllEntities gets metadata and RetrieveAll does not exist. Ref: <http://msdn.microsoft.com/en-us/library/microsoft.xrm.sdk.messages.retrievemultiplerequest.aspx>

QUESTION 71

You are developing a Windows application by using Microsoft Visual Studio 2010 and the Microsoft Dynamics CRM 2011 Organization Service web service. You need to ensure that you can access non-core xRM messages.

Which assembly reference should you add to the project?

- A. Microsoft.Crm.Sdk.dll
- B. Microsoft.Crm.SdkTypeProxy.dll
- C. Microsoft.Crm.Sdk.Proxy.dll
- D. Microsoft.Xrm.Sdk.dll

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Microsoft.Crm.Sdk.Proxy.dll is for non-core xRM.

QUESTION 72

You need to set the value of the parent account ID on the Account entity to Null. What should you do?

- A. Set the value of the Id property to an empty string.
- B. Set the value of the Id property to Guid.Empty.
- C. Set the value of the Name property to an empty string.
- D. Set the value of the LogicalName property to an empty string.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Guid.Empty is the correct approach.

QUESTION 73

Which of the following statements about early-bound entity classes is true?

- A. All type references are checked at compile time.
- B. Early-bound entity classes perform data access functions more efficiently.
- C. All type references are checked at run time.
- D. A developer can work with entities and attributes that are not part of the generated classes.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Early-binding provides the information needed for intellisense and for the compiler to check the code at compile time.

QUESTION 74

You need to allow access to the Microsoft Dynamics CRM 2011 faults produced by Windows Communication Foundation (WCF).

Which namespace should you include in the code header?

- A. System.ServiceProcess
- B. System.ServiceModel
- C. System.Security
- D. System.Runtime

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

To catch exceptions from a call to the organisation service you should include a reference to System.ServiceModel in your code.

QUESTION 75

You create a customization for a Microsoft Dynamics CRM 2011 installation. The customization instantiates an account by passing an instance of the Entity class to the Create() method of the Organization Service class. A user who has only Create privileges for accounts, but no other privileges, uses the customization.

Which of the following statements describes the result?

- A. The Create () method returns an instance of the new account.
- B. The account is created by using an early-bound entity class.
- C. The Create () method returns the GUID of the new account.
- D. The account is shared with the user.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

The Create method returns the GUID - Ref: <http://msdn.microsoft.com/en-us/library/microsoft.xrm.sdk.iorganizationservice.create.aspx>

QUESTION 76

You plan to use a JScript library web resource on a form in Microsoft Dynamics CRM 2011. What should you do first?

- A. Create a solution to contain the JScript web resource.
- B. Publish all customizations.
- C. Create an external JScript file.
- D. Attach the JScript web resource library to the form.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Best practice would be to create an external JScript file, create a solution to upload this into, attach the JScript to the Form and then publish the customisations.

QUESTION 77

You are adding JScript code to the Account entity in Microsoft Dynamics CRM 2011. You configure the OnChange event on the Name field to pass the execution context as the first parameter to a custom JScript function. From within the custom JScript function, which of the following methods will return a reference to the object on which the event occurred?

- A. getDepth()
- B. getEventSource()
- C. getContext()
- D. getSharedVariable()

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Ref: http://msdn.microsoft.com/en-us/library/gg328130.aspx#BKMK_getEventSource

QUESTION 78

For which of the following purposes can a plug-in be used in Microsoft Dynamics CRM 2011? (Each correct answer presents a complete solution. Choose three.)

- A. To perform complex platform-level data validation for phone numbers.
- B. To perform automatic number generation for custom entities.

- C. To enable interactive business processes for Microsoft Dynamics CRM 2011 for Microsoft Office Outlook in online mode.
- D. To provide integration with Microsoft Dynamics AX 2009.
- E. To enable interactive business processes for Microsoft Dynamics CRM 2011 for Microsoft Office Outlook in offline mode.

Correct Answer: ABD

Section: (none)

Explanation

Explanation/Reference:

Plug-ins have many uses. This includes the following:

- Performing complex platform level data validation
- Performing auto-number generation
- Providing integration with other applications
- Executing complex business logic

QUESTION 79

You are developing a Microsoft Dynamics CRM 2011 application that uses custom plug-ins. If an error occurs during the execution of a plug-in, the plug-in must roll back all database transactions. Which property of the `RernoteExecutionContext` class should you check to determine whether a plug-in meets this requirement?

- A. `IsOfflinePlayback`
- B. `Stage`
- C. `IsInTransaction`
- D. `IsExecutingOffline`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Ref: <http://msdn.microsoft.com/en-us/library/microsoft.xrm.sdk.iexecutioncontext.isintransaction.aspx>

QUESTION 80

You plan to develop a plug-in for the create message of the Account entity in Microsoft Dynamics CRM 2011. What should you use to access the account record in the plug-in?

- A. the Entity element of the `OutputParameters` collection
- B. the Entity element of the `InputParameters` collection
- C. the Target element of the `InputParameters` collection
- D. the Target element of the `OutputParameters` collection

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

The `InputParameters` property contains the data that is in the request message currently being processed by the event execution pipeline. For example, if the `CreateRequest` method is used, one property of that request is named `Target`, which is of type `Entity`.

QUESTION 81

You are integrating a Microsoft Dynamics CRM 2011 application with Windows Azure. You need to ensure that users can authenticate to Windows Azure solutions by using their Microsoft Dynamics CRM 2011 user accounts.

What type of authentication component should you use to authenticate the Microsoft Dynamics CRM 2011 users to Windows Azure solutions? (Each correct answer presents a complete solution. Choose two.)

- A. Access Control Services
- B. Active Directory Federation Services 2.0
- C. Windows Authorization Manager
- D. Active Directory Lightweight Directory Services

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

The AppFabric Access Control Services (ACS) manages claims based authentication security. Enterprise clients can take advantage of Active Directory Federation Services (ADFS) 2.0 so that users can authenticate using their Active Directory logon credentials, while simple clients can establish a shared secret with Access Control Services to authenticate directly.



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