PL-400[Q&As]

Microsoft Power Platform Developer

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QUESTION 1

You are creating a plug-in for an app that helps government employees get a proof of vaccination card. You must add the following information to a vaccination record before a proof of vaccination card is created:

1.

Vaccination type

2.

Date of vaccination

3.

Name of person administering the vaccine

You need to register the plug-in.

In which stage should you register the plug-in?

A. PreValidation

B. PostOperation

C. MainOperation

D. PreOperation

Correct Answer: D

1.

Pre-Validation: is before the record even reaching the stage of pre-operation, so means not yet saved, it is the first layer, usually used for validation, but not many people use this, usually will just use pre-operation.

2.

Pre-Operation: is also before the record created, not yet database transaction committed.

This is usually used to modify attribute value by system (logic code), validation as well.

Any changes of attribute in the pre-validation would be dismissed if you modify the attribute from this stage.

Since mentioned before, this is not yet created, so, there is no ID created at this point.

3.

Post-Operation: is after the record created, database transaction committed, and you would get the GUID.

Reference: https://community.dynamics.com/crm/f/microsoft-dynamics-crm-forum/216706/pre-validation-pre--operation-post-operation-stages

QUESTION 2

You need to reduce response time for the information email on the website.

What should you create?

A. a flow that creates a SharePoint item for each email response

B. a flow that creates a notification in Microsoft Teams

C. a Power Apps app that displays the number of email received in a dashboard

D. a logic app that moves all emails received to Azure Blob storage

Correct Answer: B

Scenario:

1.

Customers report that the response time from the information email listed on the Adventure Works Cycles website is greater than five days.

2.

Microsoft Teams is used for all collaboration.

Microsoft teams support email notifications.

Reference:

https://support.microsoft.com/en-us/office/manage-notifications-in-teams-1cc31834-5fe5-412b-8edb- 43fecc78413d

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QUESTION 3

You are developing a Power Apps app to manage records in the Account table in Microsoft Dataverse.

You must configure a Web API request to retrieve changes from the table.

You need to configure the preference header for the API request.

What should you include in the request header?

A. odata.context

B. odata.deltaLink

C. odata.track-changes

D. odata.nextLink

Correct Answer: B

The @odata.deltaLink Uri returned from the below example can be used to fetch changes in tables. In this example a new account was created and an existing account deleted. The delta link returned from the previous request fetches these changes, as shown in the example below.

{

"@odata.context":"[Organization URI]/api/data/v9.0/$metadata#accounts(name,accountnumber,telephone1,fax)", "@odata.deltaLink": "[Organization URI]/api/data/v9.0/accounts?$select=name,accountnumber,telephone1,faxand$deltatoken=919042%2108%2f22%2f2017%2008%3a10%3a44", "value":[

{

"@odata.etag":"W/\"915244\"",

"name":"Monte Orton",

"accountnumber":null,

"telephone1":"555000",

"fax":"10101",

"accountid":"60c4e274-0d87-e711-80e5-00155db19e6d"

}] }

Reference: https://docs.microsoft.com/en-us/power-apps/developer/data-platform/use-change-tracking-synchronize-data-external-systems

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QUESTION 4

A company implementsDynamics 365 Customer Service. The company deploys synchronous plug-ins for the PreOperation and PostOperation stages on create and for the PostOperation stage on update for processing different case type.

Users experience errors when updating cases. The plug-in trace log files show that the PostOperation plug-in update of case times out after two minutes.

You perform basic testing and discover that this plug-in is triggered on every update of a case. You examine the code and discover that the plug-in retrieves all columns for the updated case record performing its work.

You need to reduce the number of errors. You need to achieve this goal with the test amount of changes.

Solution: In the Plug-in Registration tool, set filtering attributes on the plug-in to only Case Type filed.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 5

HOTSPOT

You create a Power Platform solution to track purchasing requirements for bills of material (BOMs) and their subcomponents.

The solution must meet the following requirements:

1.

Ensure that the BOMs are enabled to include the necessary subcomponents.

2.

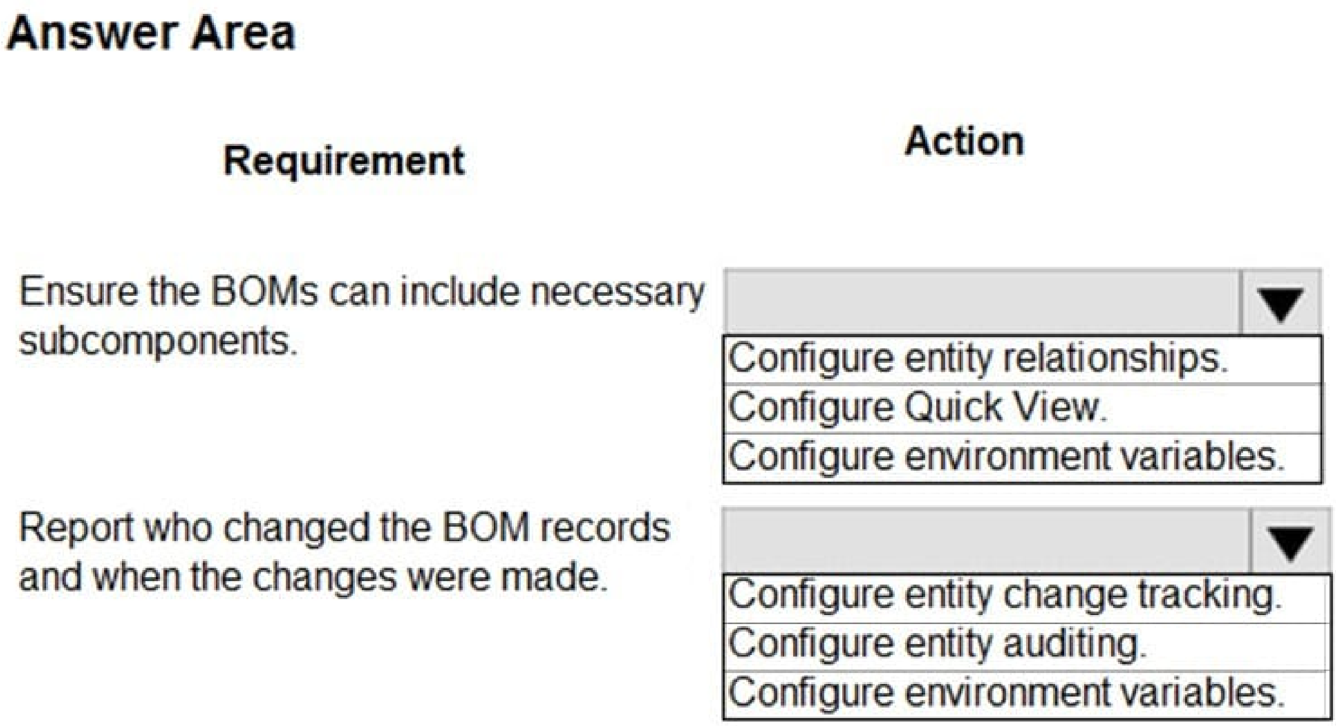
Report changes to the BOMs or their sub-components that are made by engineers.

You need to configure the solution.

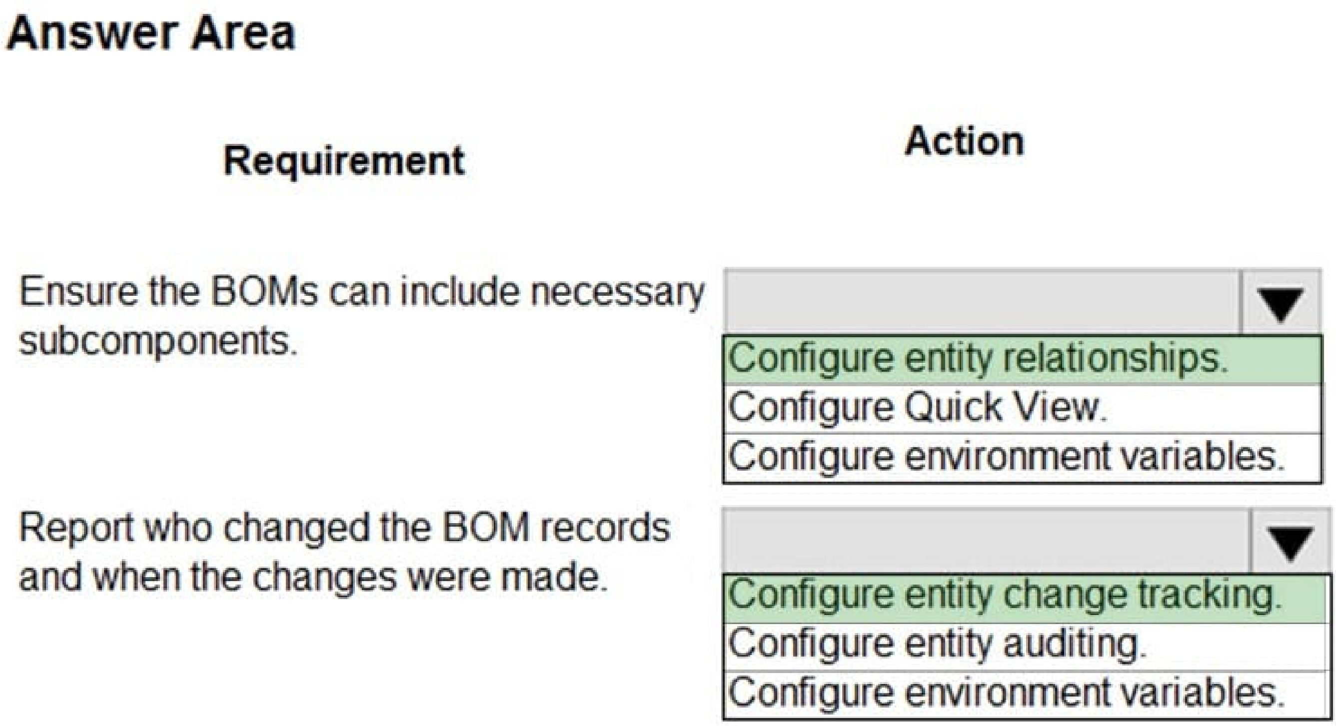
What should you do to meet each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Box 1: Configure entity relationship

Box 2: Configure entity change tracking The change tracking feature in Microsoft Dataverse provides a way to keep the data synchronized in an efficient manner by detecting what data has changed since the data was initially extracted or last synchronized. Previously, without this new feature, it was difficult to build a reliable and efficient mechanism to determine what records had changed in Dataverse.

Reference: https://docs.microsoft.com/en-us/powerapps/developer/data-platform/use-change-tracking-synchronize-data-external-systems

QUESTION 6

HOTSPOT

You are developing a Power Platform solution that uses a plug-in. The plug-in includes the following code (line numbers are included for reference):

```
public class updateACCOLmt:IPlugin
{
  public void Execute(IServiceprovider serViceprovider) {
    var context = (IPluginExecutionContext)serviceProvider.GetService(typeof(IPluginExecutionContext)):
    if (context.Stage !=20)
      return;
    var account = (Entity)context.InputParameters["Target"];
    if (!account.TryGetAttributeValue("name", out string _))
      throw new InvalidPluginExcecustionException("Account name is missing");
    account["accountnumber"] = GenerateAccountNumber();
  }
  public string GenerateAccountNumber() {
    . . .
  return accountNumber;
  }
}
```

The plug-in includes a step that is registered in the execution pipeline within the PreOperation stage for the Create message.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
The GenerateAccountNumber method runs if the plug-in step registration is changed to the PostOperation stage.	○	○
Creating an account in a model-driven app while excluding a name generates the error message "Account name is missing".	○	○
The Organization service's Update method must run to update the database after setting the accountnumber value.	○	○

Correct Answer:

Answer Area

Statements	Yes	No
The GenerateAccountNumber method runs if the plug-in step registration is changed to the PostOperation stage.		
Creating an account in a model-driven app while excluding a name generates the error message "Account name is missing".		
The Organization service's Update method must run to update the database after setting the accountnumber value.		

Box 1: No

The code will only run with stage is 20 (pre-operation), not with in Post-operation, which is 40.

Note: Stages: Valid values are 10 (pre-validation), 20 (pre-operation), 40 (post-operation), and 50 (post-operation, deprecated).

Box 2: Yes

Box 3: No

No, the Update method can be offline when updating the Account table.

Note: The IOrganizationService.Update(Entity) method updates an existing record.

Reference:

https://docs.microsoft.com/en-us/dotnet/api/microsoft.xrm.sdk.ipluginexecutioncontext.stage

https://docs.microsoft.com/en-us/dotnet/api/microsoft.xrm.sdk.iorganizationservice.update

QUESTION 7

HOTSPOT

A manufacturing company takes online orders.

The company requires automatic validation of order changes. Requirements are as follows:

If validation is successful, the order is submitted.

If exceptions are encountered, a message must be shown to the customer.

You need to set up and deploy a plug-in that encapsulates the rules.

Which options should you use? To answer, select the appropriate options in the answer area.

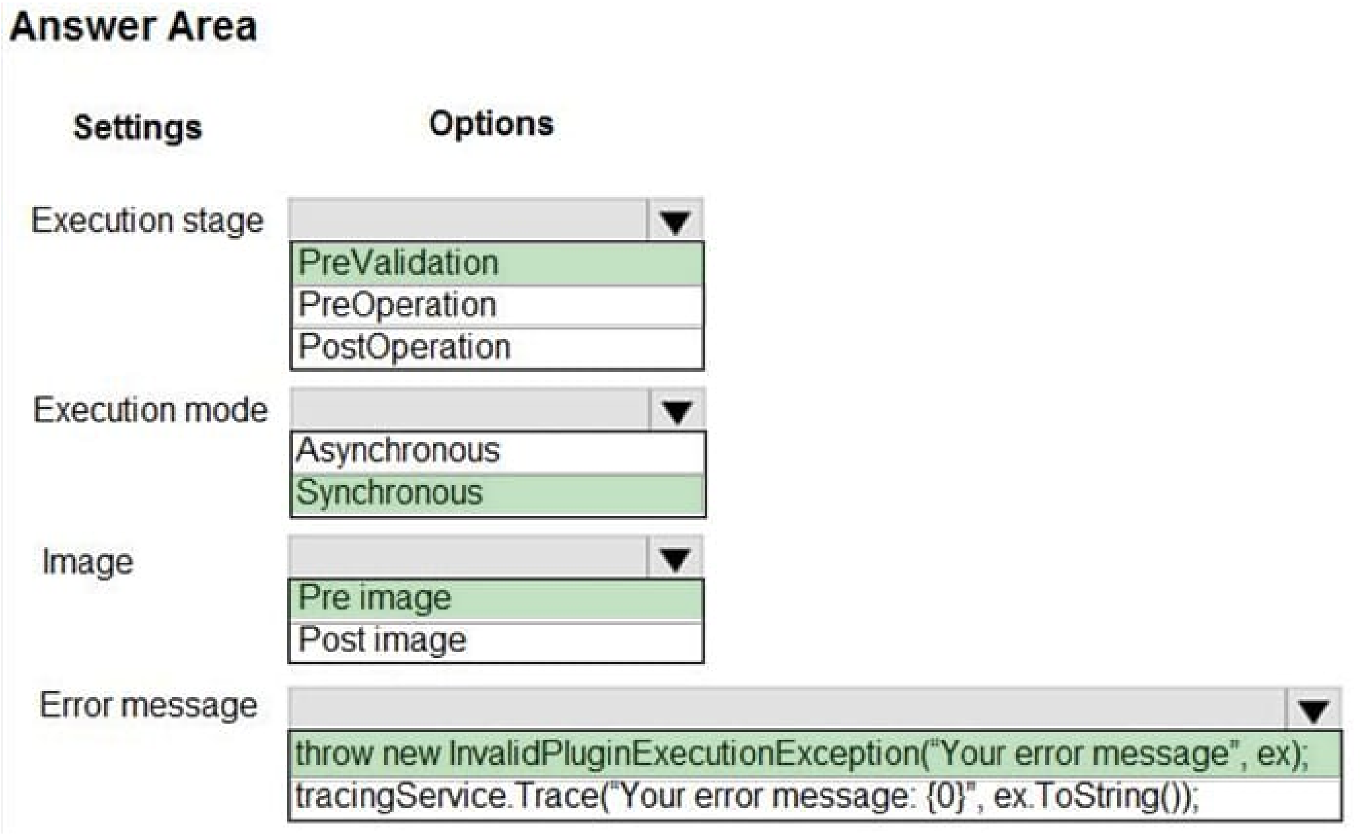
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Settings	Options
Execution stage	PreValidation PreOperation PostOperation
Execution mode	Asynchronous Synchronous
Image	Pre image Post image
Error message	throw new InvalidPluginExecutionException("Your error message", ex); tracingService.Trace("Your error message: {0}", ex.ToString());

Correct Answer:



Box 1: PreValidation

PreValidation: For the initial operation, this stage will occur before the main system operation.

This provides an opportunity to include logic to cancel the operation before the database transaction.

Box 2: Synchronous

Ideally, you should only cancel operations using synchronous plug-ins registered in the PreValidation stage.

Box 3: Pre Image

Box 4: throw ..

When you throw an InvalidPluginExecutionException exception within a synchronous plug-in an error dialog with your message will be displayed to the user.

Reference:

https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/event-framework

https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/handle-exceptions

QUESTION 8

DRAG DROP

You create solutions in a development environment and export the solution for testing by various departments in your organization. Power users in each department control the testing environments.

You must display department-specific wording at the beginning of any custom notifications that are displayed in testing environments.

You need to package solutions to ensure that the power users can customize the notification content.

Which three actions should you perform in sequence inside a solution? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

- Create an empty environment variable named **Custom Text Placeholder.**
- Create a configuration page in the classic solution by using a text field named **Custom Text Placeholder** that uses the HTML file format.
- Set the default value of the text field Custom Text Placeholder to **Enter custom text**.
- Create a function to retrieve the value from the custom text placeholder and display the notification.
- Export the solution.
- Create a solution component configuration named **Custom Text Placeholder** that uses the JSON file format.

Answer area

Correct Answer:

Actions

- Create a configuration page in the classic solution by using a text field named **Custom Text Placeholder** that uses the HTML file format.
- Set the default value of the text field Custom Text Placeholder to **Enter custom text**.
- Create a solution component configuration named **Custom Text Placeholder** that uses the JSON file format.

Answer area

- Create an empty environment variable named **Custom Text Placeholder.**
- Create a function to retrieve the value from the custom text placeholder and display the notification.
- Export the solution.

Explanation:

Step 1: Create an empty environment variable named Custom Text Placeholder.

Applications often require different configuration settings or input parameters when deployed to different environments. Environment variables store the parameter keys and values, which then serve as input to various other application

objects. Separating the parameters from the consuming objects allows you to change the values within the same environment or when you migrate solutions to other environments.

Step 2: Create a function to retrieve the value from the custom text placeholder and display the notification.

Step 3: Export the solution

You can manually export solutions. Microsoft recommends that you create an unmanaged solution to use for exporting your customizations, and then export your customizations periodically so that you have a backup in case anything

happens.

Reference:

https://docs.microsoft.com/en-us/powerapps/maker/data-platform/environmentvariables

https://docs.microsoft.com/en-us/powerapps/maker/data-platform/export-solutions

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QUESTION 9

HOTSPOT

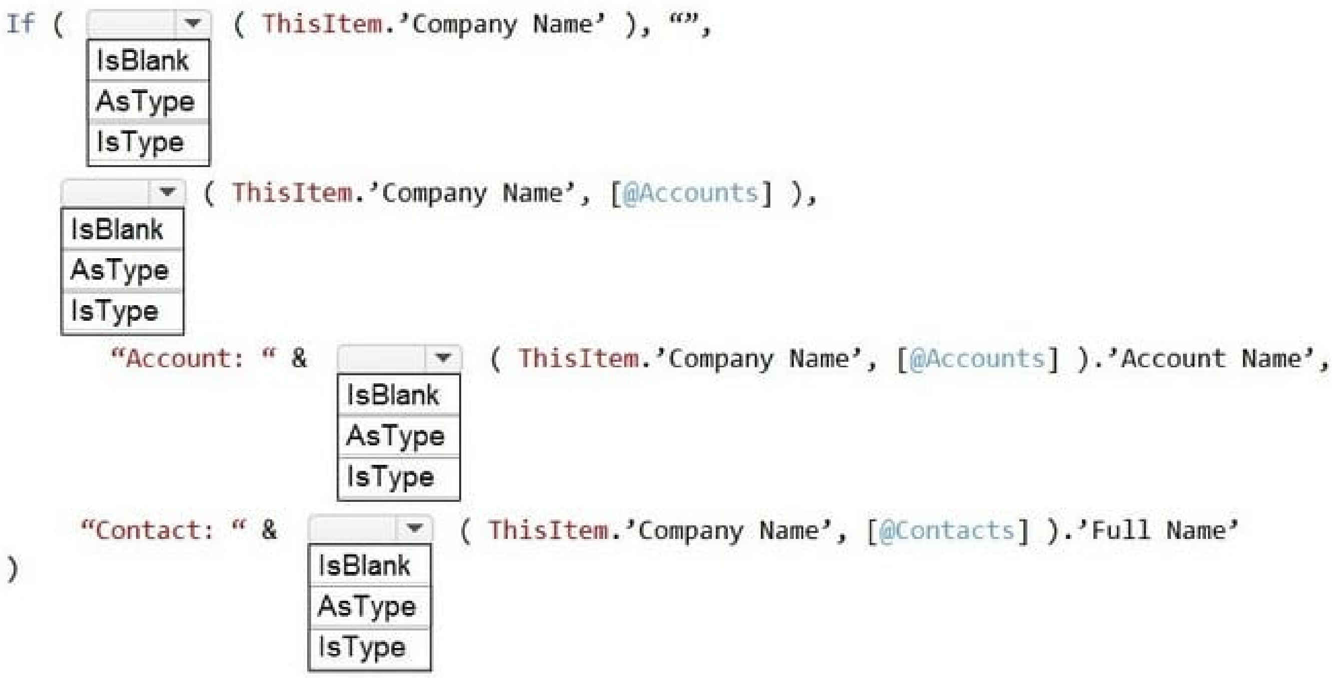
A company uses Dynamics 365 Sales.

You need to configure the customer lookup search for email activity in the canvas app.

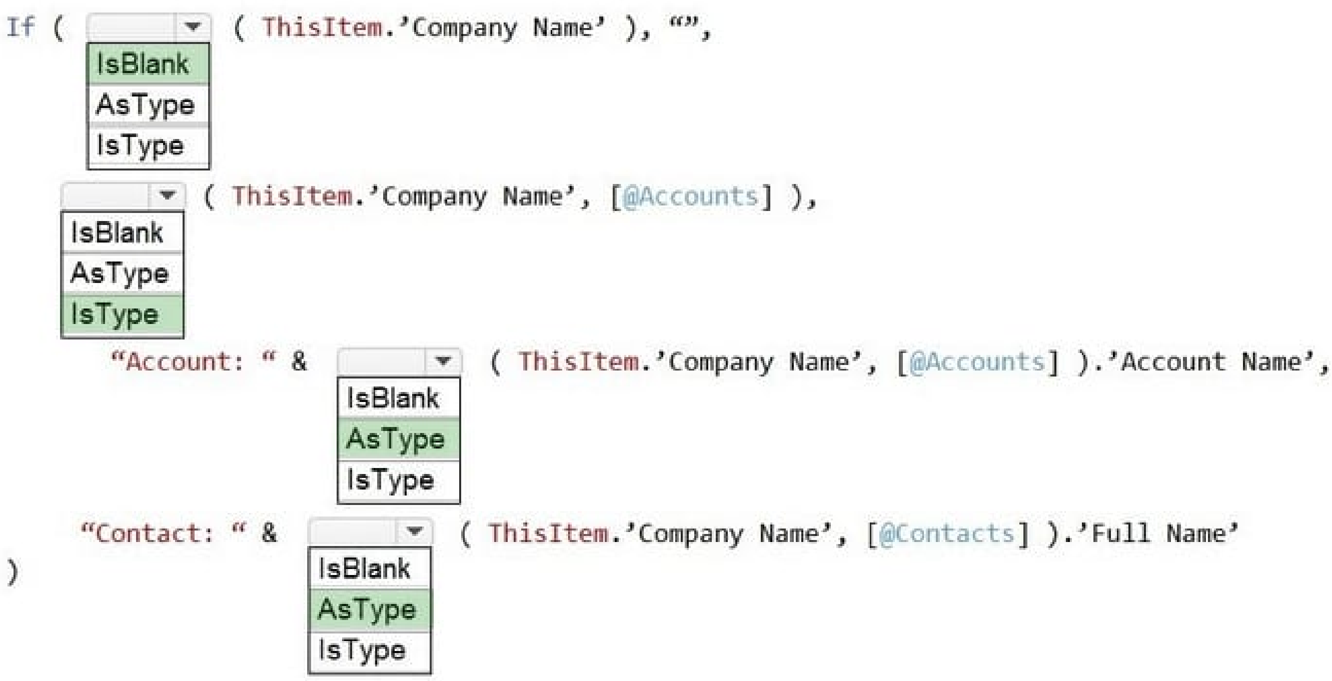
How should you complete the expression? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Box 1: IsBlank

The IsBlank function tests for a blank value or an empty string. The test includes empty strings to ease app creation since some data sources and controls use an empty string when there is no value present.

Box 2: IsType

The IsType function tests whether a record reference refers to a specific table type.

Box 3: AsType

The AsType function treats a record reference as a specific table type, sometimes referred to as casting. You can use the result as if it were a record of the table and again use the Record.Field notation to access all of the fields of that record.

An error occurs if the reference isn\\'t of the specific type.

Box 4: AsType

QUESTION 10

You are developing a Power Platform solution for a medical practice. You create a custom table named Doctors to record details about the doctors who work at the medical practice.

You must be able to attach a PDF copy of a doctor\\'s medical license to the row for each doctor.

You need to configure the table.

What should you do?

A. Create a Power Automate flow to add attachments.

B. Navigate to Table options and enable attachments.

C. Navigate to Column options and enable attachments.

D. Create relationships between the Doctor table and the Notes table.

Correct Answer: C

A file column is used for storing file data up to a specified maximum size. A custom or customizable table can have zero or more file columns plus a notes (annotation) collection with zero to one attachment in each note.

Reference: https://docs.microsoft.com/en-us/powerapps/developer/data-platform/file-attributes

QUESTION 11

You need to reduce response time for the information email on the website.

What should you create?

A. A flow that create a notification in Microsoft Teams

B. A power Apps app that displays the number of emails received in a dashboard

C. A flow that creates a SharePoint item for each email response

D. Logic app that moves all emails received to Azure Blob storage.

Correct Answer: A

Scenario:

Customers report that the response time from the information email listed on the Adventure Works Cycles website is greater than five days.

Microsoft Teams is used for all collaboration.

QUESTION 12

DRAG DROP

You are creating a model-driven app for users to submit and manage budgets for projects.

You must create a business process flow to ensure any lead with a budget over $10,000 requires approval by a manager. You must add a custom control that allows users to select the estimated budget cost for a project.

You need to add the control to the business process flow.

in which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Paste control description FormXML into the correct stage of the business process flow in the exported solution.
Export the business process flow and the Lead form as two separate solutions.
Copy all control description FormXML from the Lead form of the exported solution.
Add a control to the Lead form by using the form designer.
Import the solution into the system and publish.

Answer area

Correct Answer:

Actions

Answer area

Export the business process flow and the Lead form as two separate solutions.

Copy all control description FormXML from the Lead form of the exported solution.

Add a control to the Lead form by using the form designer.

Import the solution into the system and publish.

Paste control description FormXML into the correct stage of the business process flow in the exported solution.

QUESTION 13

A financial services company uses the Common Data Service (CDS) to develop solutions. The company uses development and production instances.

You need to move solutions from the development instance to the production instance.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. In the development instance, make changes to the solutions that are deployed in the production instance, export the solutions as managed solutions, and import the managed solutions into the production instance.

B. In the development instance, highlight the solution you want to make changes to, select Clone a Patch, make changes, export the solution, and import the solution into the production instance.

C. Export all managed solutions from the development instance and import the solutions into the production instance.

D. In the production instance, import solutions with the same version number or higher when updating solutions.

Correct Answer: AB

A: When you import a managed solution, all component changes will be brought into the environment in a published state.

B: You can apply patches to either managed or unmanaged solutions and include only changes to entities and related entity assets. Patches do not contain any non-customized system components or relationships that it dependents upon because these components already exist in the deployed-to organization. At some point in your development cycle, you can roll up all the patches into a new solution version to replace the original solution that the patches were created from.

Reference: https://docs.microsoft.com/en-us/powerapps/maker/common-data-service/import-update-export-solutions
https://docs.microsoft.com/en-us/power-platform/alm/create-patches-simplify-solution-updates

QUESTION 14

HOTSPOT

You need to configure a connector for the driving record verification API.

How should you configure the system? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configuration option

Configure authentication.

Implementation

Basic
OAuth 2.0
API Key

Configuration option

Provide credentials to the API.

Implementation

Authentication section in the connector configuration.
Prompt when the connector is used for the 1st time.
Pass Credentials as parameters to the action being invoked in the flow or app.

Correct Answer:

Answer Area

Configuration option

Configure authentication.

Implementation

Basic
OAuth 2.0
API Key

Configuration option

Provide credentials to the API.

Implementation

Authentication section in the connector configuration.
Prompt when the connector is used for the 1st time.
Pass Credentials as parameters to the action being invoked in the flow or app.

Box 1: OAuth 2.0 Use API keys if you expect developers to build internal applications that don\\'t need to access more than a single user\\'s data. Use OAuth access tokens if you want users to easily provide authorization to applications without needing to share private data or dig through developer documentation.

Requirements. Driving record verification

1.

Driving record verification must only be performed once for each candidate.

2.

Information required for driving record verification must be sent to the driving record verification service automatically after the candidate\\'s address is verified.

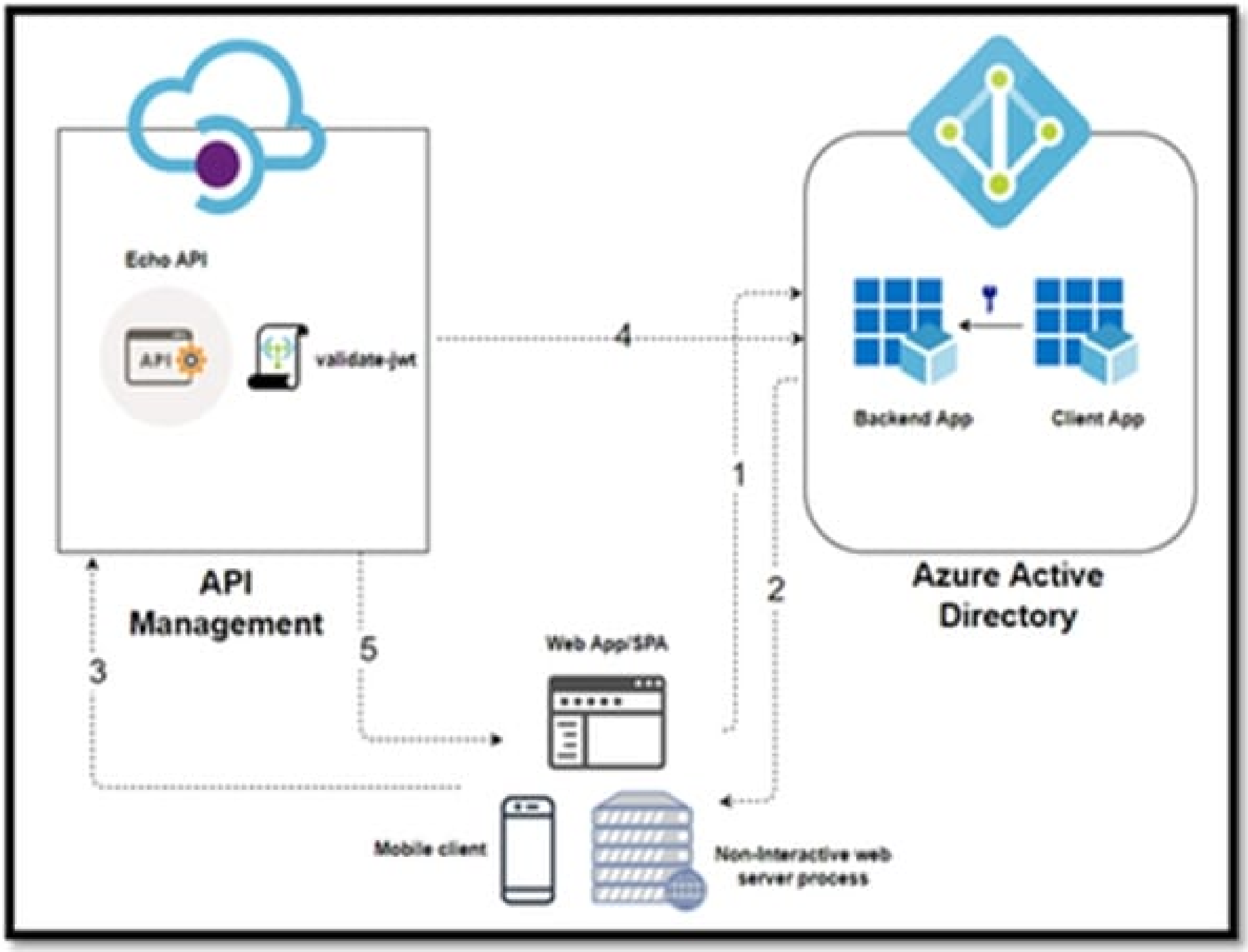
3.

The API must return a value of either Approved or Rejected to indicate whether the candidate has met the company\\'s requirements.

Box 2: Pass Credentials as parameters

User makes an API call with the authorization header and the token gets validated by using validate-jwt policy in APIM by Azure AD.

Note, see step 4 below.



In this Diagram we can see the OAUTH flow with API Management in which:

1.

The Developer Portal requests a token from Azure AD using app registration client id and client secret.

2.

In the second step, the user is challenged to prove their identity by supplying User Credentials.

3.

After successful validation, Azure AD issues the access/refresh token.

4.

User makes an API call with the authorization header and the token gets validated by using validate-jwt policy in APIM by Azure AD.

5.

Based on the validation result, the user will receive the response in the developer portal.

Reference:

https://zapier.com/engineering/apikey-oauth-jwt/

https://techcommunity.microsoft.com/t5/azure-paas-blog/protect-api-s-using-oauth-2-0-in-apim/ba-p/2309538

QUESTION 15

You are developing a Power Platform solution. The solution connects to a third-party accounting system by using a Web API through a Power Apps app that automatically exchanges contacts with the sales data. You have the following code: (Line numbers are included for reference only.)

```
01 GET https://contoso.crm.dynamics.com/api/data/v9.1/accounts
                ?$select=name,accountnumber,telephone1 &$top=5 HTTP/1.1
02
03 Cache-Control: no-cache
04 OData-Version: 4.0
05 Content-Type: application/json
```

You need to ensure that the code only synchronizes data that was not previously synchronized.

Which code segment should you insert at line 02?

A. Prefer: odata.track-changes

B. Prefer: odata.allow-entityreferences

C. Prefer: odata.include-annotations

Correct Answer: A

Use change tracking to synchronize data with external systems

The change tracking feature in Microsoft Dataverse provides a way to keep the data synchronized in an efficient manner by detecting what data has changed since the data was initially extracted or last synchronized. This article discusses

how to enable and retrieve changes for a table.

Retrieve changes for a table using the Web API

Changes made in tables can be tracked using Web API requests by adding the Prefer: odata.track-changes header. This header requests that a delta link be returned which can subsequently be used to retrieve table changes.

Delta links are opaque, service-generated links that the client uses to retrieve subsequent changes to a result. They are based on a defining query that describes the set of results for which changes are being tracked. For example, the

request that generated the results containing the delta link. The delta link encodes the collection of tables for which changes are being tracked, along with a starting point from which to track changes.

Reference:

https://docs.microsoft.com/en-us/power-apps/developer/data-platform/use-change-tracking-synchronize-data-external-systems

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