PL-400^Q&As

Microsoft Power Platform Developer

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QUESTION 1

HOTSPOT

A company has a canvas app that has a screen with a gallery of contacts.

Users must be able to search the gallery by last name, email address, and country/region. They must also be able to sort by last name, followed by country/region.

You need to define the expression that meets the requirements.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

[▼] (

- Sort
- Filter
- StartsWith
- SortByColumns

[▼] (

- Search
- Filter
- LookUp
- SortByColumns

```
        Contacts,
        TextSearchBox1.Text,
        "lastname",
        "emailaddress1",
        "address1_country"
    ),
    "lastname",
    Ascending,
    "address1_country",
    Ascending
    )
```

Correct Answer:

Box 1: SortByColums

The SortByColumns function can be used to sort a table based on one or more columns.

The parameter list for SortByColumns provides the names of the columns to sort by and the sort direction per column. Sorting is performed in the order of the parameters (sorted first by the first column, then the second, and so on).

Box 2: Filter

The Filter function finds records in a table that satisfy a formula. Use Filter to find a set of records that match one or more criteria and to discard those that don\\'t.

QUESTION 2

You are creating an integration between Microsoft Dataverse and an external system.

Messages from Dataverse must be sent to Microsoft Azure Service Bus. An Azure Function will process the messages. Events must be published directly to the ServiceEndpoint for Azure Service Bus.

You need to create code for the messages.

Which class should you use?

A. RemoteExecutionContext

B. IWorkflowContext

C. IPluginExecutionContext

D. IExecutionContext

Correct Answer: A

Microsoft Azure solution For the Dataverse and Azure connection to work, there must be at least one solution in an Azure Service Bus solution account, where the solution contains one or more service endpoints. For a relay endpoint contract, a listener application that is “Dataverse-aware” must be actively listening on the endpoint for the Dataverse request on the Service Bus. For a queue endpoint contract, a listener doesn\\'t have to be actively listening. A listener is made Dataverse-aware by linking it to the Microsoft.Xrm.Sdk assembly so that type RemoteExecutionContext is defined

Note Data Context The data context contains the business data that is being processed as part of the current Dataverse operation. This processing was initiated when a request to perform a certain operation was made by a user, workflow, or application, to the Dynamics 365 platform. The data context is passed to any plug-ins or custom workflow activities that are registered with the event pipeline to execute on the specific request and table combination that is currently being processed. The data context is of type IPluginExecutionContext when it is being passed along the event execution pipeline and RemoteExecutionContext when it is posted to the Service Bus.

Reference: https://learn.microsoft.com/en-us/power-apps/developer/data-platform/azure-integration

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QUESTION 3

DRAG DROP

You are creating a model-driven app for a company. Sales team members will use the app to manage leads. The app will interact with the Microsoft Dataverse Leads table.

You must configure the app to meet the following requirements:

If the estimated value for a lead is greater than $10,000 the app must:

-Send an email to a manager.

-

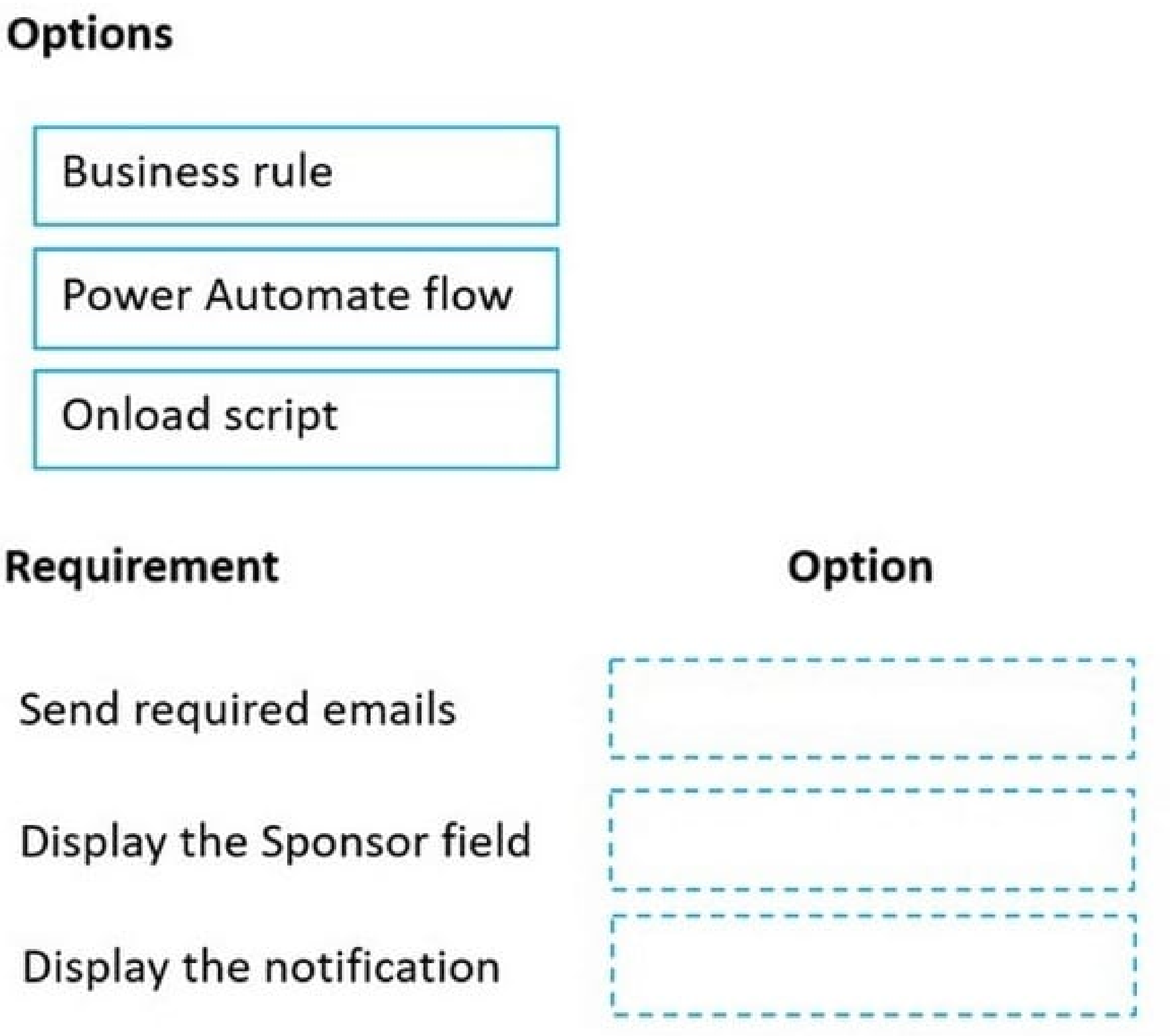
Display a field named Sponsor on the lead form. If the estimated value for a lead is greater than $100,000 the app must:

-Send an email to the company\\'s vice president.

-

Display the following message as a notification while the lead record is open: High value customer, handle with care. You need to configure the app. The solution must minimize the use of code. Which options should you use? To answer, drag the appropriate options to the correct requirements. Each option may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:

Options

Requirement	Option
Send required emails	Power Automate flow
Display the Sponsor field	Business rule
Display the notification	Onload script

Box 1: Power Automate flow

Here are the top how-to scenarios for email in Microsoft Power Automate, with examples of how to achieve them.

1.

Send a beautifully formatted email.

2.

Add an image to your email.

3.

Send email to a distribution list.

4.

Send automatic replies from a shared mailbox.

5.

Change the date and time format of an email.

Box 2: Business rule

Business Rules in PowerApps

Set values of a field.

Clear values of a field.

Set field requirement levels.

Show or hide fields.

Enable or disable fields.

Validate data and show error messages.

Create business recommendations based on business intelligence.

Box 3: Onload script

Display the following message as a notification while the lead record is open: High value customer, handle with care.

Reference:

https://docs.microsoft.com/en-us/power-automate/email-customization

https://imperiumdynamics.com/blog/business-rules-in-powerapps.html

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QUESTION 4

DRAG DROP

You are creating a Power Apps Component Framework (PCF) control.

You test the control by using a local test harness.

You need to complete testing.

Which commands should you use? To answer, drag the appropriate commands to the correct functions. Each command may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Commands

- start npm start
- npm start
- npm start watch
- npm update

Answer Area

Function	Command
Launch a second npm start window while tests run in the first window.	Command
Detect changes in index.ts, ControlManifest.Input.xml, and other bundled .ts files during testing without having to restart the test harness.	Command

Correct Answer:

Commands

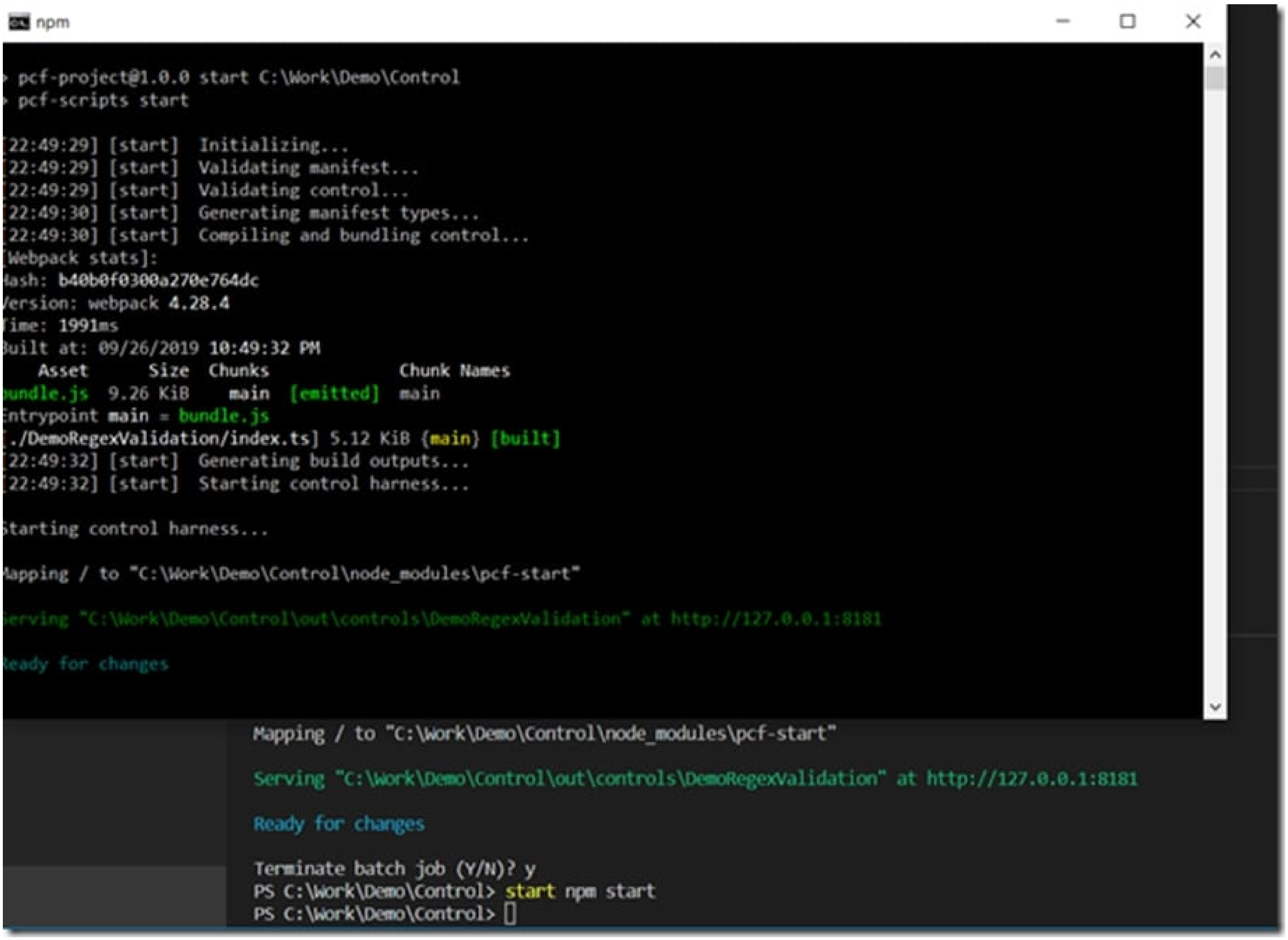
- npm start
- npm update

Answer Area

Function	Command
Launch a second npm start window while tests run in the first window.	start npm start
Detect changes in index.ts, ControlManifest.Input.xml, and other bundled .ts files during testing without having to restart the test harness.	npm start watch

Box 1: start npm start

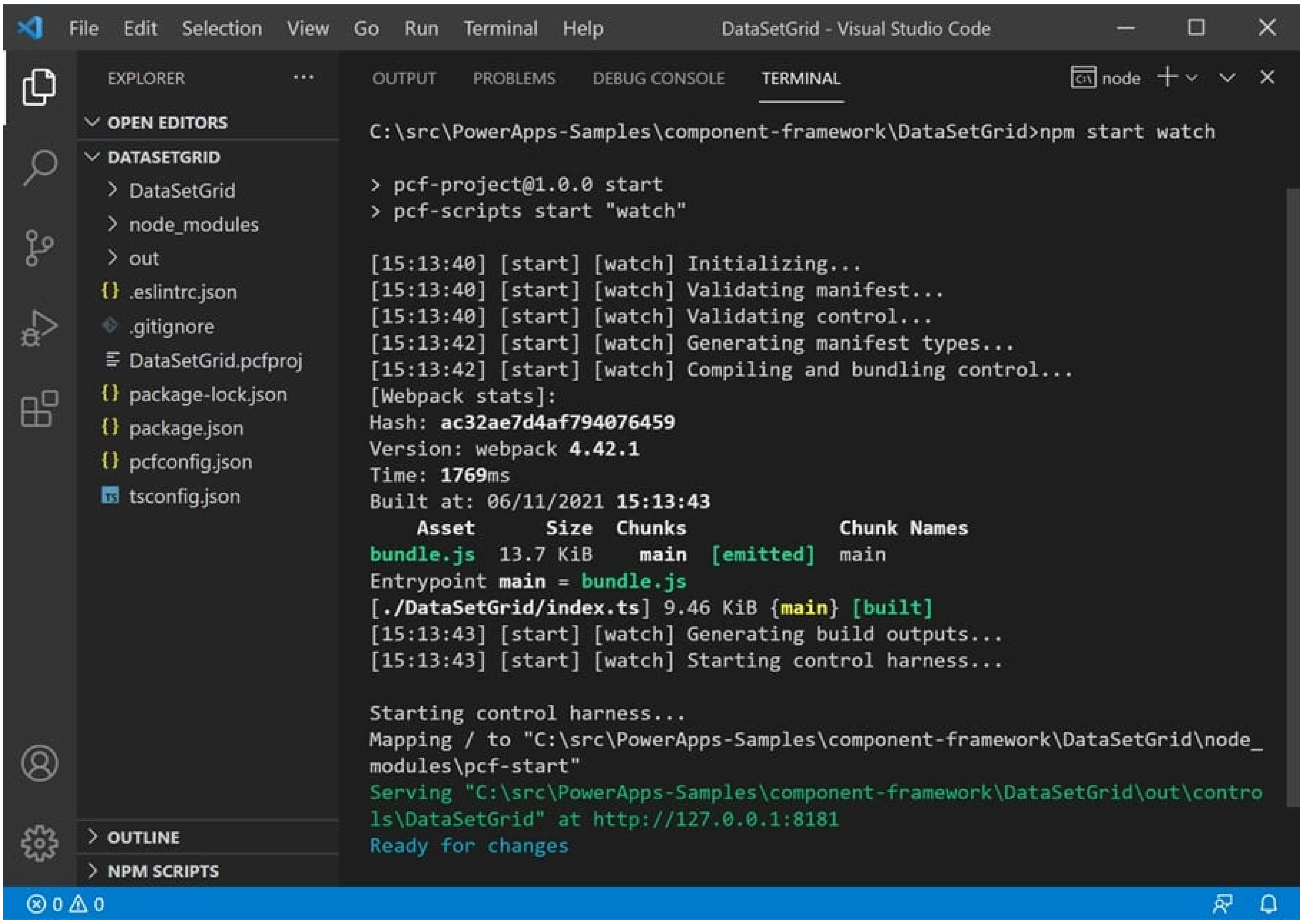
Those two “start”-s surrounding the “npm” have completely different meaning. When done this way, a new command prompt window will show up and “npm start” will run in that additional window:



It'll be the same result – you will have the harness started, but, also, your original terminal session will continue to work, and you won\\'t need to open another one.

Box 2: Npm start watch

The following image shows what Visual Studio Code will look like when you use the npm start watch for the DataSetGrid sample:



Launching the test harness in watch mode enables you to quickly see the changes in action. Changes made to any of the following component assets are automatically reflected in the test harness without having to restart it:

index.ts file.

Imported modules in index.ts (excluding node_modules).

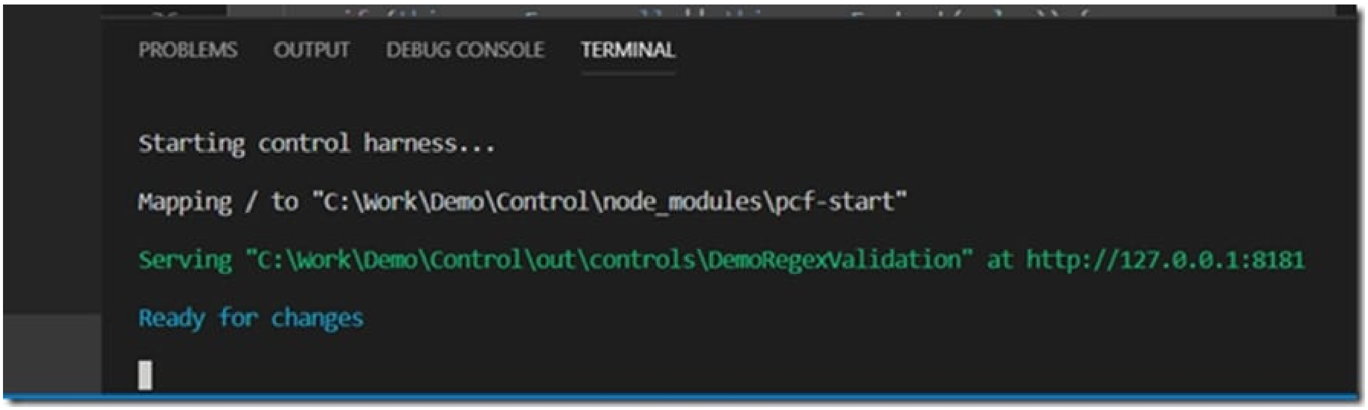
All of the resources listed in the ControlManifest.Input.xml file, for example, css/DataSetGrid.css or strings/DataSetGrid.1033.resx

Incorrect:

* To start the test harness, you would use the following command:

npm start

This is fast and convenient, but this command will lock your terminal session. For example, if you are doing PCF development in Visual Studio Code, here is what you will see in the terminal window:



Reference:

QUESTION 5

You need to improve the efficiency of counting warehouse inventory. What should you create?

A. a model-driven app that allows the user to key in inventory counts

B. a Power BI dashboard that shows the inventory counting variances

C. a flow that updates the warehouse counts as the worker performs the count

D. a canvas app that scans barcodes to allow a warehouse worker to select inventory counts

Correct Answer: D

Scenario: Warehouse counting is performed manually by using a counting journal. All warehouse boxes and items are barcoded. Barcode scanner control for canvas apps: Scans barcodes, QR codes, and data-matrix codes on an Android or iOS device. Description

The control opens a native scanner on an Android or iOS device. The scanner automatically detects a barcode, a QR code, or a data-matrix code when in view.

Reference:

https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/controls/control-new-barcode-scanner

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QUESTION 6

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You are designing a one-way integration from the Microsoft Dataverse to another system.

You must use an Azure Function to update the other system. The integration must send only newly created records to the other system. The solution must support scenarios where a component of the integration is unavailable for more than a

few seconds to avoid data loss.

You need to design the integration solution.

Solution: Register a service endpoint in the Dataverse instance that connects to an Azure Service Bus queue.

Register a step at the endpoint which runs asynchronously on the record\\'s Create message and in the post-operation stage.

Configure the Azure Function to process records as they are added to the queue.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

Need a plug-in or a custom workflow.

Note: Plug-ins are one of two methods used to initiate posting the message containing the data context to the Azure Service Bus, the other method being a custom workflow activity.

Reference:

https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/azure-integration

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QUESTION 7

You need to identify the execution mode that is being used for the ISV solution reported by User5. Which type of execution mode is in use?

A. asynchronous

B. atomicity

C. transfer

D. synchronous

Correct Answer: D

User5 receives the error message: `Endpoint unavailable\\' during a test of the technician dispatch ISV solution.

When you choose to use a synchronous execution mode any failure will be reported back to the user of the application with an Endpoint unavailable error dialog informing the user that the webhook service endpoint may be configured incorrectly or is not available.

Reference: https://docs.microsoft.com/en-us/powerapps/developer/common-data-service/use-webhooks

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QUESTION 8

HOTSPOT

You are examining code written by another developer that is not functioning correctly. There are no other JavaScript or business rules in use on the form.

This code is properly registered to the OnChange event of the telephone1 field on an account entity form. The main operation is to update the primary contact\\'s phone number when the account phone number changes. The primary contact field is a lookup. (Line numbers are included for reference only.)

```
01 function UpdatePrimaryContact(executionContext) {
02  var formContext = executionContext.getFormContext();
03  var formType = formContext.ui.getFormType();
04  if (formType !== 2) {
05   return;
06  }
07  var data =
08  {
09   "telephone1": formContext.getAttribute("telephone1").getValue()
10  }
11  var primaryContact = formContext.getAttribute("primarycontactid").getValue();
12  Xrm.WebApi.updateRecord("contact", primaryContact[0].id, data).then(
13   function success() {
14    ...
15    Xrm.Navigation.openAlertDialog({ text: "Updated" });
16   },
17   function fail() {
18    Xrm.Navigation.openErrorDialog({ message: "Error" });
19   }
20  );
21  Xrm.Navigation.openAlertDialog({ text: "Done" });
22 }
```

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:

Statements	Yes	No
Updating the primary contact record will only happen when the form is in update mode.	○	○
If the primary contact field on the account does not have a value, the error dialog on line 18 is displayed.	○	○
The alert dialog on line 21 will always be shown after the update completes and the alert dialog on line 15 is shown.	○	○

Correct Answer:

Statements	Yes	No
Updating the primary contact record will only happen when the form is in update mode.	○	○
If the primary contact field on the account does not have a value, the error dialog on line 18 is displayed.	○	○
The alert dialog on line 21 will always be shown after the update completes and the alert dialog on line 15 is shown.	○	○

Box 1: Yes

getFormTyp gets the form type for the record.

Form type 2 is Update.

Note: Syntax: formContext.ui.getFormType();

Return Value

Type: Number

Description: Form type. Returns one of the following values

RETURN VALUE

Value Form type

0 Undefined

1 Create

2 Update

3 Read Only

4 Disabled

6 Bulk Edit

Box 2: Yes

Xrm.WebApi.updateRecord Return Value: On success, returns a promise object containing the values specified earlier in the description of the successCallback parameter.

Note:

Syntax: Xrm.WebApi.updateRecord(entityLogicalName, id, data).then(successCallback, errorCallback);

Where errorCallback: A function to call when the operation fails. An object with the following properties will be passed:

errorCode: Number. The error code.

message: String. An error message describing the issue.

Box 3: No

It will displayed even if the update fails.

QUESTION 9

You create a Power Automate flow that retrieves data from a proprietary database.

You need to ensure that the flow works for other users.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Share a view with users.

B. Share the custom connector with users.

C. Share the flow with users.

D. Share the environment by giving permissions to the users.

Correct Answer: BC

Share the flow and the custom connector with users.

B: Share a custom connector in your organization.

If you have a custom connector, you might want to enable other people to use it. People within your organization can use the custom connector just like they use other Microsoft-managed connectors.

C: Also share the flow.

Reference:

https://docs.microsoft.com/en-us/connectors/custom-connectors/share

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QUESTION 10

DRAG DROP

A company has Common Data Service (CDS) environments for development, test, and production.

You have a model-driven app that consists of two solutions. The solutions include settings and reference data. You plan to move the solutions, app settings, and reference data from a development environment to a production environment.

You export each solution from the development environment as a zip file.

You run the Configuration Manager to export the settings and reference data as zip files.

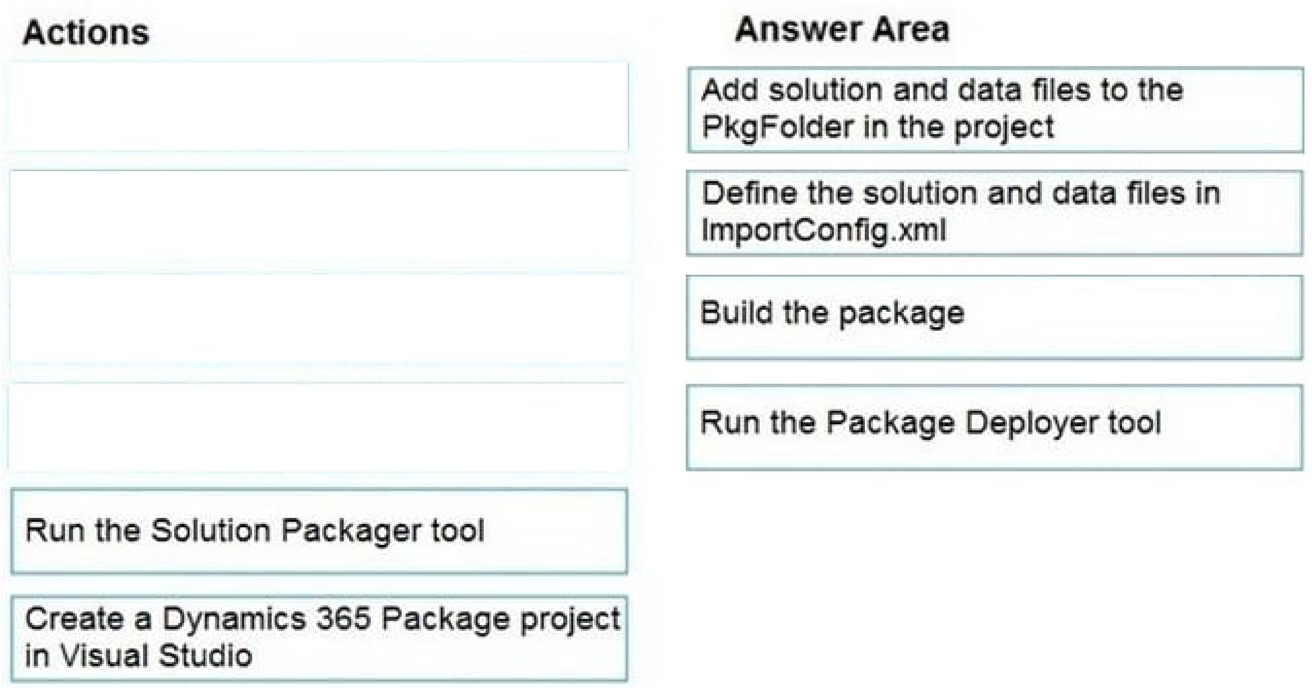
You need to prepare the app and its settings for deployment.

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

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

Correct Answer:



Step 1: Add your files to the project In the Solutions Explorer pane, add your solutions and files under the PkgFolder folder. For each file that you add under the PkgFolder folder, in the Properties pane, set the Copy to Output Directory

value to Copy Always. This ensures that your file is available in the generated package.

Step 2: Define the solution and data files in ImportConfig.xml Define the package configuration by adding information about your package in the ImportConfig.xml file available in the PkgFolder.

Step 3: Build the package Step: Run the Package Deployer tool After you create a package, you can deploy it on the Dataverse instance by using either the Package Deployer tool or Windows PowerShell.

QUESTION 11

DRAG DROP

You need to set up security to meet the requirements.

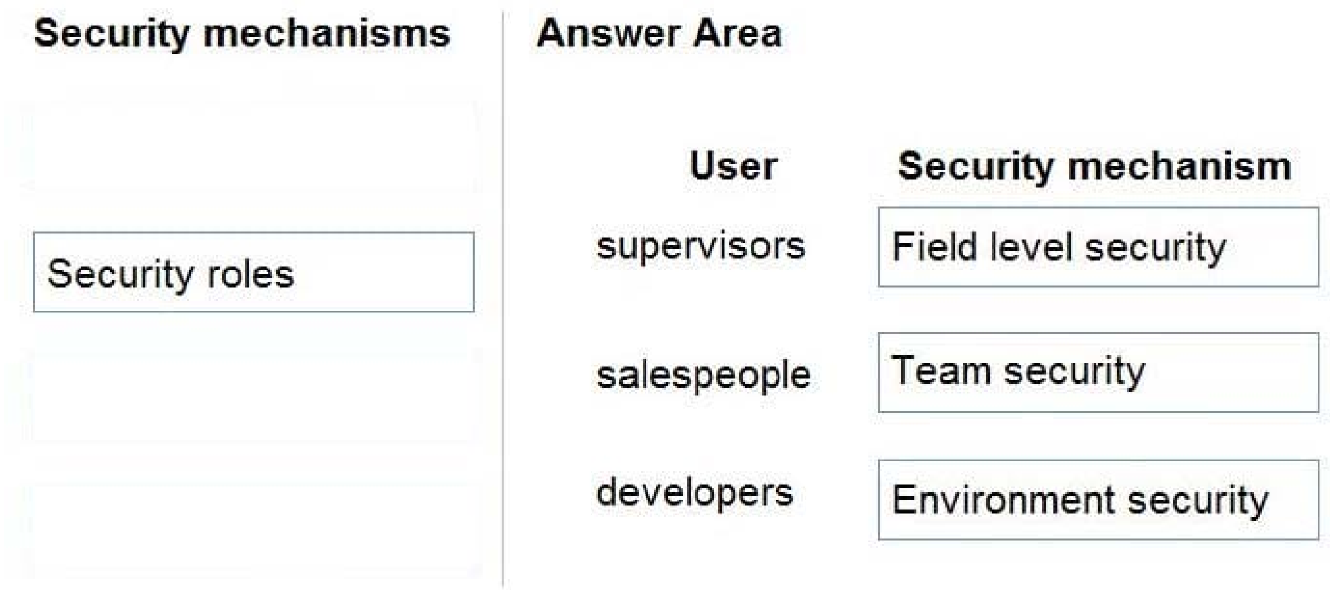
How should you configure security? To answer, drag the appropriate security mechanisms to the correct users. Each security mechanism may be used once, more than once, or not at all. You may need to drag the split bar between panes or

scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:



Box 1: Field level security

Only supervisors must be able to view phone numbers in the Accounts form.

You use field security tables to apply field-level security, which restricts field access to specified users and teams. The scope of field-level security is global, which means that it applies to all records within the organization, regardless of the

business unit hierarchical level to which the record or the user belongs. Field security works in all Microsoft Dataverse clients, including the Web client, Dynamics 365 for Outlook, and Dynamics. It applies to all components, such as the

Dataverse web services, reports, search, offline, filtered views, auditing, and duplicate detection.

Box 2: Team Security

Sales users must only have access to their own records.

Owner team: An owner team owns records and has security roles assigned to the team. A user\\'s privileges can come from their individual security roles, those of the teams that they\\'re part of or the ones they inherit. A team has full access

rights on the records that the team owns. Team members are added manually to the owner team.

Box 3: Environment security

Developers must be able to create new apps for all users.

Environment maker: Can create new resources associated with an environment, including apps, connections, custom APIs, gateways, and flows using Microsoft Power Automate.

However, this role doesn\\'t have any privileges to access data within an environment.

QUESTION 12

HOTSPOT

A company uses SharePoint for its intranet and other functions. The company has also implemented model-driven apps.

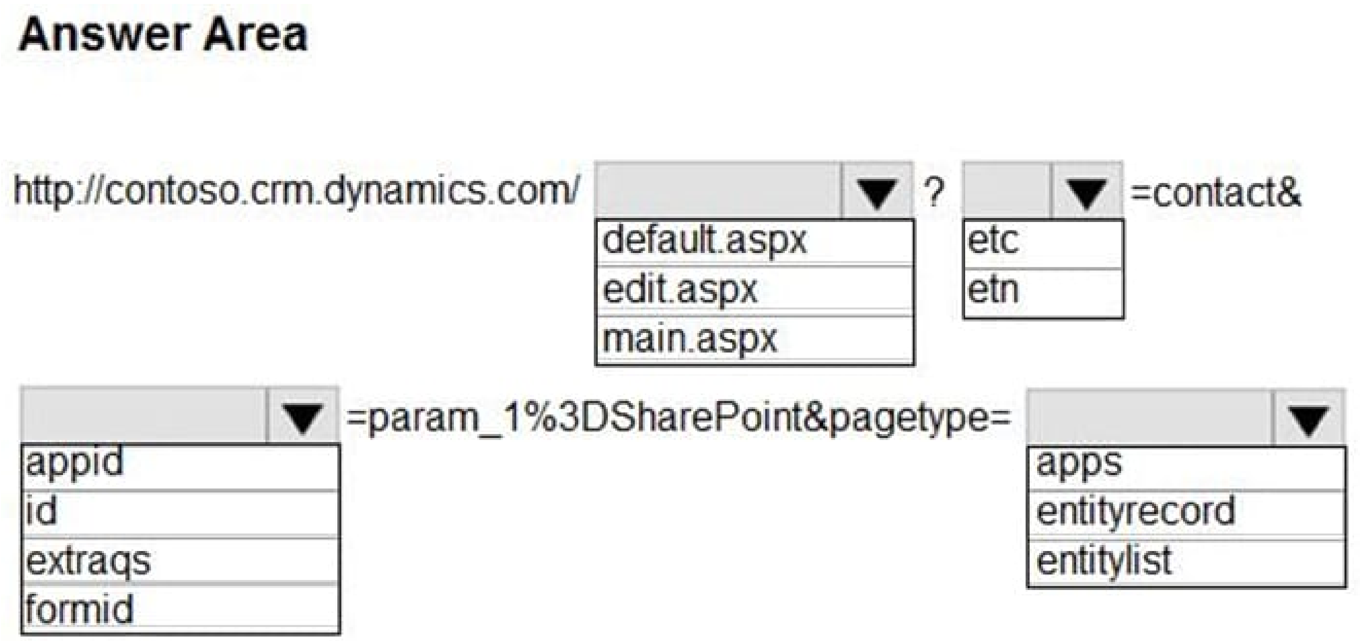
SharePoint users must be able to create contact records in the Common Data Service (CDS), without having to navigate to the model-driven apps.

You need to create a link in SharePoint to open the CDS contact from displaying data from SharePoint.

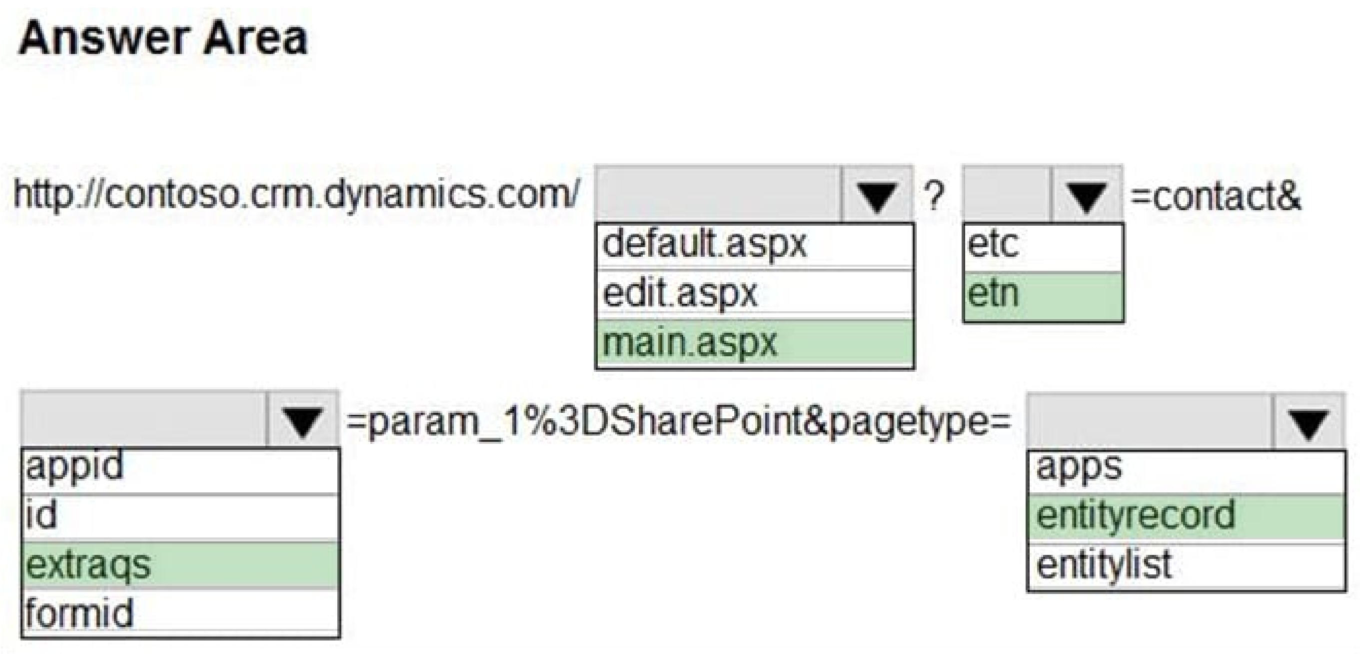
How should you complete the URL? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



Box 1: main.aspx

Example, to open the Active Contacts view.

https://myorg.crm.dynamics.com/main.aspx?etn=contactandpagetype=entitylistandviewid={00000000-0000-0000-00AA-000010001004}

Box 2: etn

Etn: The logical name of the entity. Important: Do not use the etc (entity type code) parameter that contains an integer code for the entity. This integer code varies for custom entities in different organizations.

Box 3: Extraqs

Extraqs: Optional for forms. This parameter contains encoded parameters within this parameter.

When you open a new form by using the URL address, you can include arguments in the extraqs parameter to set field values

Note: You must encode the parameters passed in the extraqs parameter. To encode the parameters, use encodeURIComponent. To use special characters like "=" or "and" in the parameter values, you must double encode (e.g. to set name to

A=BandC, it would be extraqs=name%3DA%253DB%2526C).

Box 4: entitylist

Pagetype: The type of page. There are two possible values:

-entityrecord

Displays an entity record form.

-entitylist

Displays an entity view.

Reference: https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/open-forms-views-dialogs-reports-url https://docs.microsoft.com/en-us/powerapps/developer/model-driven-apps/set-field-values-using-parameters-passed-form

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QUESTION 13

HOTSPOT

A company has a model-driven app that captures applications from prospective students.

You are asked to create a new re-usable custom component using the Power Apps component framework (PCF).

The custom component must allow entry of a date of birth and validate that the applicant is not a minor.

You create the class AuditDatePicker in the TypeScript file Index.ts and the style sheet DatePicker.css.

You need to define the component to be available only for relevant fields and its properties when used in a form.

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

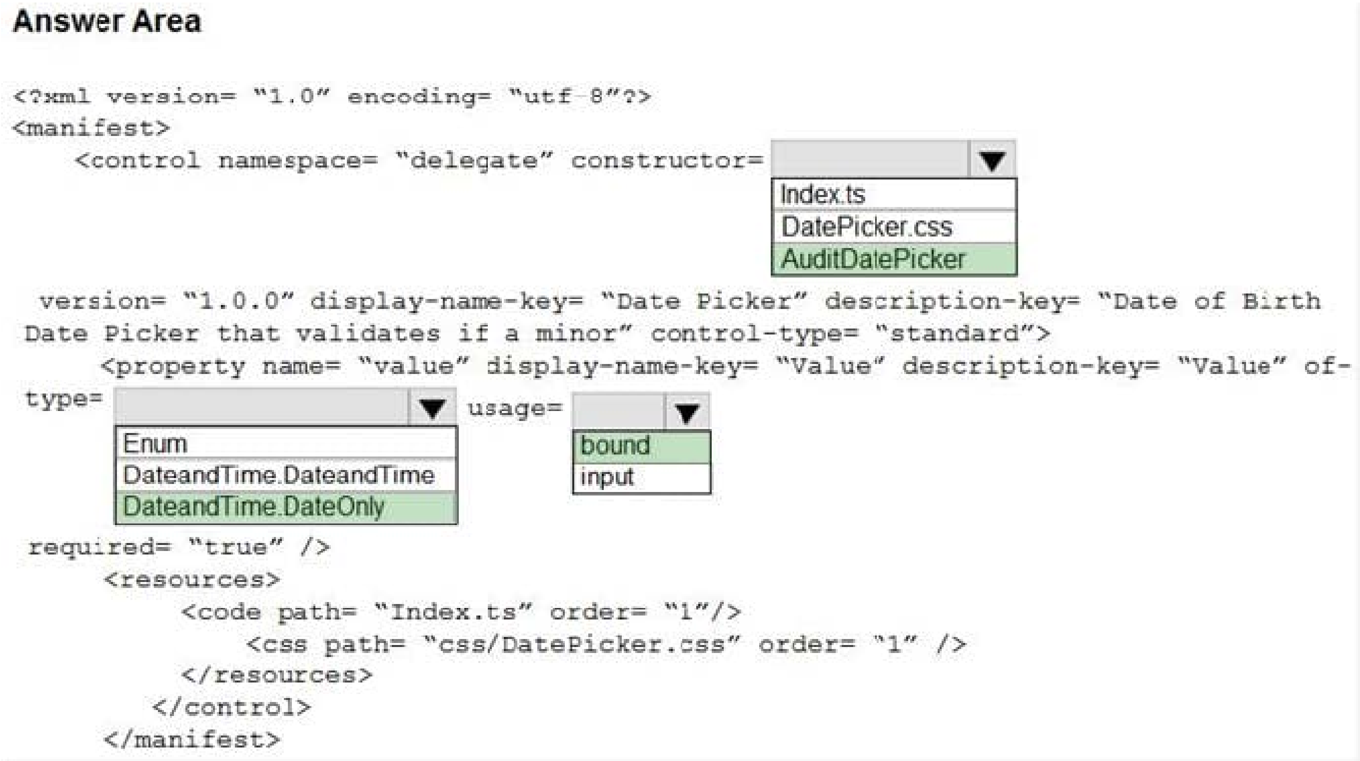
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
<?xml version= "1.0" encoding= "utf-8"?>
<manifest>
    <control namespace= "delegate" constructor=
                                                Index.ts
                                                DatePicker.css
                                                AuditDatePicker
 version= "1.0.0" display-name-key= "Date Picker" description-key= "Date of Birth
 Date Picker that validates if a minor" control-type= "standard">
     <property name= "value" display-name-key= "Value" description-key= "Value" of-
 type= [ ▼ ]                        usage= [ ▼ ]
       Enum                                bound
       DateandTime.DateandTime             input
       DateandTime.DateOnly
 required= "true" />
      <resources>
           <code path= "Index.ts" order= "1"/>
               <css path= "css/DatePicker.css" order= "1" />
         </resources>
       </control>
      </manifest>
```

Correct Answer:



Box 1: AuditDatePicker

Constructor: Constructor of the code component.

Box 2:DateandTime.DateOnly Box 3: bound usage: Has two properties, bound and input. Bound properties are bound only to the value of the field. Input properties are either bound to a field or allow a static value.

Reference: https://docs.microsoft.com/en-us/powerapps/developer/component-framework/manifest-schema-reference/manifest https://docs.microsoft.com/en-us/powerapps/developer/component-framework/implementing-controls-using-typescript

QUESTION 14

HOTSPOT

You need to complete a PowerApps component framework (PCF) control.

How should you define the order in the manifest? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

```
<resources>
      <code path="scripts/HelloWorldControlWave.js" order="1"/>
      <code path="scripts/HelloWorldControlRandom.js" order="2"/>
      <css path="style/HelloWorldControl.css" order="[ ▼ ]"/>
                                                   1
                                                   2
                                                   3

      <html path="HelloWorldControlWaveRandom.htm" order="[ ▼ ]"/>
</resources>                                           1
                                                       2
                                                       3
```

Correct Answer:

```
<resources>
      <code path="scripts/HelloWorldControlWave.js" order="1"/>
      <code path="scripts/HelloWorldControlRandom.js" order="2"/>
      <css path="style/HelloWorldControl.css" order="[ ▼ ]"/>
                                                   1  (selected)
                                                   2
                                                   3

      <html path="HelloWorldControlWaveRandom.htm" order="[ ▼ ]"/>
</resources>                                           1
                                                       2  (selected)
                                                       3
```

The order property specifies the order of a flexible item relative to the rest of the flexible items inside the same container.

QUESTION 15

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.