



MB-400^{Q&As}

Microsoft Power Apps + Dynamics 365 Developer

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QUESTION 1

A client requires that the system sends an email from a button on their customer contact form.

You need to call the action from JavaScript.

Which two functions achieve this result? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. `Xrm.WebApi.online.createRecord()`
- B. `Xrm.WebApi.online.updateRecord()`
- C. `Xrm.WebApi.online.execute()`
- D. `Xrm.WebApi.online.executeMultiple()`

Correct Answer: C

You can execute action using `Xrm.WebApi.online.execute` in Dynamics 365 CRM V9.0.

Reference: <https://cardesouza.com/calling-a-dynamics-365-action-from-javascript-using-xrm-webapi-online-execute/>

QUESTION 2

You need to reduce response time for the information email on the website. What should you create?

- A. a PowerApps app that displays the number of emails received in a dashboard
- B. a flow that creates a SharePoint item for each email response
- C. a logic app that moves all emails received to Azure Blob storage
- D. a flow that creates a notification in Microsoft Teams

Correct Answer: D

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.

QUESTION 3



You need to configure the trigger for account records. Which expression should you use?

- A. ADDWEEKS(1, CreatedOn)
- B. ADDDAYS(10, CreateOn)
- C. SUBTRACTDAYS(10, Now())
- D. DIFFINDAYS(CreatedOn, now())
- E. DIFFINWEEKS(now, 1)

Correct Answer: D

Scenario: A trigger must be created that changes the Priority field to 1 in the Account record 10 days after an Account record is created.

DIFFINDAYS (date and time, date and time): Returns the difference in days between two Date and Time fields. If both dates and times fall on the same day, the difference is zero.

Note: Whenever we talk about history, the bone of contention are the below four fields:

1.
CreatedOn
2.
ModifiedOn
3.
CreatedBy
4.
ModifiedBy

Reference: <https://docs.microsoft.com/en-us/dynamics365/customerengagement/on-premises/customize/define-calculated-fields>

QUESTION 4

HOTSPOT

A manufacturing company takes online orders.

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

1.
If validation is successful, the order is submitted.
- 2.



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	<ul style="list-style-type: none">PreValidationPreOperationPostOperation
Execution mode	<ul style="list-style-type: none">AsynchronousSynchronous
Image	<ul style="list-style-type: none">Pre imagePost image
Error message	<pre>throw new InvalidPluginExecutionException("Your error message", ex); tracingService.Trace("Your error message: {0}", ex.ToString());</pre>

Correct Answer:



Answer Area

Settings	Options
Execution stage	<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f0f0f0; padding: 2px;">PreValidation</div> <div style="background-color: #e0e0e0; padding: 2px;">PreOperation</div> <div style="background-color: #d0d0d0; padding: 2px;">PostOperation</div> </div>
Execution mode	<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f0f0f0; padding: 2px;">Asynchronous</div> <div style="background-color: #e0e0e0; padding: 2px;">Synchronous</div> </div>
Image	<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #f0f0f0; padding: 2px;">Pre image</div> <div style="background-color: #e0e0e0; padding: 2px;">Post image</div> </div>
Error message	<div style="border: 1px solid black; padding: 5px;"> <pre>throw new InvalidPluginExecutionException("Your error message", ex); tracingService.Trace("Your error message: {0}", ex.ToString());</pre> </div>

Box 1: PreValidation

PreValidation

Pre-event/Pre-Validation

This stage executes before anything else, even before basic validation if the triggering action is even allowed based on security. Therefore, it would be possible to trigger the plug-in code even without actually having permission to do so and

great consideration must be used when writing a pre-validation plug-in. Also, execution in this stage might not be part of the database transaction.

Examples:- security checks being performed to verify the calling or logged on user has the correct permissions to perform the intended operation.

Note: Ideally, you should only cancel operations using synchronous plug-ins registered in the PreValidation stage. This stage usually occurs outside the main database transaction. Cancelling an operation before it reaches the transaction is

highly desirable because the cancelled operation has to be rolled back.

Box 2: Synchronous



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

Box 3: Pre Image

When are the different images available in the event execution pipeline?

Message	Stage	Pre-Image	Post-Image
Create	PRE	No	No
Create	POST	No	Yes
Update	PRE	Yes	No
Update	POST	Yes	Yes
Delete	PRE	Yes	No
Delete	POST	Yes	No

Box 4: Throw new InvalidPluginExecutionException("Your error message", ex);

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/handle-exceptions>

<https://community.dynamics.com/crm/b/thinkdynamicdodynamic/posts/pre-image-and-post-image-in-dynamics-crm>

QUESTION 5

DRAG DROP

A developer must register a step using the Plug-in registration tool.

You need to associate the correct Event Pipeline Stage of Execution with its purpose.

Which stage should you associate with each description? To answer, drag the appropriate stages to the correct descriptions. Each stage 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:

Stages

-
-
-
-

Answer Area

Description	Stage
Cancel the operation before the database transaction.	<input type="text" value="Stage"/>
Change any values for an entity within the database transaction.	<input type="text" value="Stage"/>
Modify any properties of the message before it returns to the caller.	<input type="text" value="Stage"/>

Correct Answer:

Stages

-
-
-
-

Answer Area

Description	Stage
Cancel the operation before the database transaction.	<input type="text" value="PreValidation"/>
Change any values for an entity within the database transaction.	<input type="text" value="PreOperation"/>
Modify any properties of the message before it returns to the caller.	<input type="text" value="PostOperation"/>

The event pipeline allows you to configure when in the event the plug-in code will execute. The event pipeline is divided into the following events and stages:

Box 1: PreValidation

Pre-event/Pre-Validation

This stage executes before anything else, even before basic validation if the triggering action is even allowed based on security. Therefore, it would be possible to trigger the plug-in code even without actually having permission to do so and

great consideration must be used when writing a pre-validation plug-in. Also, execution in this stage might not be part of the database transaction.



Examples:- security checks being performed to verify the calling or logged on user has the correct permissions to perform the intended operation.

Box 2: PreOperation

Pre-event/Pre-Operation

This stage executes after validation, but before the changes has been committed to database. This is one of the most commonly used stages.

Example uses:

If and “update” plug-in should update the same record, it is best practice to use the pre-operation stage and modify the properties. That way the plug-in update is done within same DB transaction without needing additional web service update

call.

Box 3: PostOperation

Plug-ins which are to execute after the main operation. Plug-ins registered in this stage are executed within the database transaction.

This stage executed after changes have been committed to database. This is one of the most used stages.

Example uses:

Most of the “Create” plugins are post-event. This allows access to the created GUID and creation of relationships to newly created record.

Incorrect Answers:

MainOperation:- main operation of the system, such as create, update, delete, and so on. No custom plug-ins can be registered in this stage.

Reference:

<https://community.dynamics.com/crm/f/microsoft-dynamics-crm-forum/216569/ms-crm-plugin-execution-pipeline>

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