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Microsoft MB-820 Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <ul style="list-style-type: none">Develop by using AL objects: Building and extending tables and reports is discussed in this topic. It also explains Designing and creating an XMLport. Lastly, it discusses how to work with entitlement and permission set objects. |
| Topic 2 | <ul style="list-style-type: none">Work with development tools: Implementing semi-automated test processes and managing and assessing telemetry are its sub-topics. |
| Topic 3 | <ul style="list-style-type: none">Integrate Business Central with other applications: Accessing Representational State Transfer (REST) services is discussed in this topic. It also explains implementation of APIs. |

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Microsoft Dynamics 365 Business Central Developer Sample Questions (Q86-Q91):

NEW QUESTION # 86

You need to create the Fabrikam Vendor API for the accounting department.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

NEW QUESTION # 87

You need to implement the Issue Management module and expose the PostIssue method.

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

Answer:

Explanation:

Topic 2, Alpine Ski House

Overview

Alpine Ski House is a company that owns and operates hotels, restaurants, and stores. Currently, the company uses the following software and interface:

- * Property management software (PMS) to manage hotel rooms
- * On-premises accounting software to generate sales invoices and create purchase orders
- * An API that allows restaurants and stores to obtain necessary information. Restaurants and stores use standalone software for point of sale (POS) devices. Each day, the POS terminals generate a text file of sales data and save the files in a serval folder. An account assistant must manually import the files to the current software tables to be processed by the system.

The general manager receives several reports monthly from department managers. The reports take too much time to prepare.

The company is moving from a different system to Business Central online to manage the whole company.

The company plans to increase efficiency in every department by using APIs to obtain or share information between the different systems.

Each department involved in purchasing must be able to make purchase requests automatically and easily. The departments do not need access to the full ERP management system.

Alpine Ski House requires the development of several extensions for the planned improvements. Business Central design patterns must be used to develop all extensions.

Alpine Ski House must develop the following pages:

- * Pages that provide multiple configurations in a multistep dialog, like a wizard, to provide required information when the extensions are first installed

* Department-specific Role Center pages to show relevant information and pages with additional information. The IT department plans to use Power BI to analyze departmental information. The database must be configured to provide optimal performance.

The housekeeping department requires the following to increase efficiency and help avoid data entry errors:

- * A Housekeeping Role Center to minimize navigation to relevant areas In Business Central online and to show relevant information in it

* Pages to embed into a new Room page to show additional information about the Room entity

* A table named Room Incident for the housekeeping team to enter room issue information

* A Housekeeping canvas app that connects to an extension

The department requires the development of an extension with a new API page named RoomsAPI.

* The housekeeping team will use RoomsAPI to publish room details, update when work is complete, or provide repair notifications from the canvas app.

* This custom API page must expose a custom table named Rooms and have an ID 50000. The table must be able to update from the PMS. The PMS team must know the end to connect to the custom API.

* A developer provides the following details for the API page:

APIPublisher = 'alpine';

APIGroup - 'integration';

APIVersion - 'v2.6';

entityName - 'room';

EntitySetName = 'rooms';

* The extension must be published in Business Central online and include a list page named Room List that includes all hotel rooms.

* Installation or updates to this extension must meet the following requirements:

- o Some web services must be published automatically.
- o The version of the specified application's metadata must be obtained in AL language.
- o The code required to perform tasks cannot be accessible from other parts of the application.

The Room Incident table information must include the following fields:

* Incident entry: An incremental number

* Room No.: A room from the Room table

* Incident Date: The work date

o The table definition in the Room Incident table must autofill the Incident Date when the housekeeping team inserts a new record, o

The value for Incident Date must be the work date configured in the Business Central online client.

* Status: Includes the following options to identify the status of the incident:

o Open: When the Room Incident is created

o In Progress: When someone starts repair work

o Closed: When the incident is solved

* Incident Closing Date: Auto-updating field (when the status passes to Closed, the field will update with the work date)

* Incident Description: Text

* Image. Media data type

o The stored picture must be downloadable from a menu action.

o A Room Incident page must be developed to contain the download action.

To increase efficiency, the new system must manage the generated data from the restaurants and stores directly by using the API on the POS terminals.

* The company requires a code unit called from a job queue to read the information from the POS terminal APIs.

* The POS terminal information must be stored in a table named POS Information, have an ID 50100. and be editable on a page.

* The account manager requires an option on the menu of the page to run the process manually.

To analyze the information received from the POS terminals, the company requires:

* A custom API named ticketAPI to export the information to Power BI

* Use of the Read Scale-Out feature to improve database performance

The purchasing department requires a new entity in Business Central online to log non-conformities of goods received from vendors.

The entity must be set up as follows:

* The non-conformity entity must have two tables:

o a header with common information

o one or more lines with the detailed received items that are non-conforming

* The entity requires a page named Non-conformity and a subpage named Non-Conformity Lines to store the information.

When a purchase order with incorrect quantity or quality issues is received, the entity must create a non-conformity document in the system. The following information must be in the document:

* Non-conformity Number: must use the No. Series table from Business Central online to manage this field and use these features:

o Alphanumeric values

o Number format that includes "NO and the year as part of the number: for example, NC24-001

* Non-conformity Date: stores only the creation date

* Vendor No.: stores the number of the vendor that sent the items; only vendors from the company must be included

* Owner: code of an employee defined in the company

* Receipt No.: must meet the following conditions:

o Be an existing receipt No.

o Be received from the vendor indicated in the Vendor No. field

* Comments: can include comments with rich text and pictures to illustrate quality problems

* Status: includes nonconformity statuses, such as:

o Open

o Notified

o Closed

* Lines must contain the following details:

o Item No.: item received (for existing inventory items only)

o Description: item description

o Quantity: non-conforming quantity

o Non-conformity Type:

Quality

Quantity

Delivery date

The serial numbers of the non-conformities and the period in which they can be created must be in a configuration table and its corresponding page to allow them to be modified for the users.

NEW QUESTION # 88

A developer creates a profile for part-time shop supervisors and adds customizations.

You plan to add new requirements to the profile.

You need to analyze the code to understand the profile and make sure there are no errors.

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

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

NEW QUESTION # 89

You need to create the access modifier for IssueTotal.

Which variable declaration should you use?

- A. Internal var IssueTotal: Decimal
- B. Protected vat IssueTotal: Decimal
- C. Public var IssueTotal: Decimal
- D. Var IssueTotal; Decimal
- E. Local var IssueTotal: Decimal

Answer: A

Explanation:

In Business Central development using AL (the language for Business Central extensions), the use of access modifiers defines how variables and procedures are accessed within and outside of an object or codeunit.

Access Modifiers in AL:

Public: A public variable can be accessed from any object or codeunit within the same module or extension.

Protected: This restricts access to the current object and objects that inherit from the current object. However, in AL (at least in versions used for Business Central), the Protected access modifier is used with methods but not variables.

Internal: This modifier restricts the visibility to the current extension. This means that variables or methods declared as internal can only be accessed from within the same extension. This is appropriate when you want to provide functionality that is shared within the extension but not exposed externally.

Local: This restricts the variable or method to the current object or method where it is declared. It cannot be accessed from anywhere else, even within the same extension.

Scenario Justification:

In the scenario for Contoso, Ltd., IssueTotal is a global variable in the ISSUE BASE extension, and the ISSUE EXT extension needs to access it. Therefore, the variable cannot be declared as Local, because this would restrict access to just the current object (or method).

Using Public would expose the variable outside of the extension, which is unnecessary because you only want other parts of the extension (specifically the ISSUE EXT extension) to have access.

The best choice in this case is Internal because it restricts access to the variable to within the same extension, which includes the base extension and any dependent extensions like ISSUE EXT. It strikes the right balance between visibility and encapsulation.

Microsoft Dynamics 365 Business Central Developer Reference:

Access Modifiers in AL: Microsoft's documentation on AL provides the details on access modifiers, where it is specified that internal variables can be accessed within the extension, and the public variable is accessible across all extensions [\[source: Microsoft Learn on AL Programming\]](#).

Best Practices for AL Development: Business Central development best practices suggest keeping variables internal unless they need to be accessed outside of the current extension [\[source: Microsoft Learn on AL development guidelines\]](#).

NEW QUESTION # 90

You create an 'AddItemsToJson' procedure and publish it.

The procedure fails to run.

You need to fix the errors in the code.

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

Answer:

Explanation:

□ **Explanation:**

- * In line 13, replace the Add method with Insert. = NO
- * In line 15, replace the WriteTo method with ReadFrom. = NO
- * Change the ItemObject variable type from JsonObject to JsonToken. = NO
- * Move line 08 in the beginning of REPEAT .. UNTIL. = YES

The provided code is intended to serialize a list of items from the Item table into a JSON array format. Here is a breakdown of the code and the necessary corrections:

* In line 13, "ItemsArray.Add(ItemObject)": This line is correctly using the Add method to add the ItemObject to the ItemsArray. The Add method is the correct method to use for adding items to a JSONArray. Therefore, there is no need to replace Add with Insert.

* In line 15, "ItemsArray.WriteTo(RequestText)": The WriteTo method is used correctly to serialize the ItemsArray into a JSON formatted string and store it in the RequestText variable. The ReadFrom method is used for the opposite operation, i.e., to deserialize a JSON formatted string into a JsonArray, which is not the goal in this context. Hence, no change is needed here.

* Change the ItemObject variable type from JsonObject to JsonToken: The ItemObject variable is intended to hold JSON objects representing individual items, making JsonObject the appropriate type.

IsToken is not a type used in this context within AL for Business Central, and thus the variable type should remain as JsonObject, representing individual items, making JsonObject the appropriate type.

* Move line 08, "Clear(ItemObject)": This line should be moved inside the repeat loop to ensure that the ItemObject is cleared for each item in the loop. Placing it before the repeat would only clear it once before the loop starts, which could lead to incorrect serialization as the previous item's properties would not be cleared from the ItemObject.

The logic for serializing records into JSON is a common operation when interfacing with APIs or web services in Business Central, and the pattern shown in the code is typical for such operations.

NEW QUESTION # 91

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