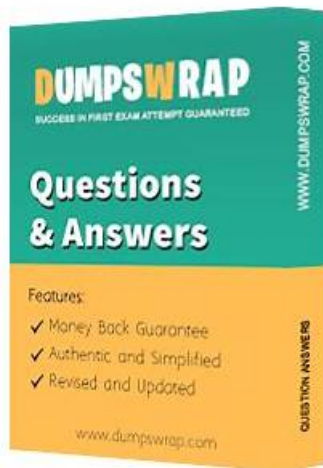


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Microsoft MB-820 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none"> Install, develop, and deploy for Business Central: It delves into the installation and configuration of a Business Central development environment. Moreover, it discusses creating, debugging, and deploying an extension in Business Central.
Topic 3	<ul style="list-style-type: none"> Describe Business Central: Describing the components and capabilities of Business Central, and describing the core solution and extensions approach for Business Central are focal points of this topic. It also explains the difference between Business Central Online and Business Central on-premises features.
Topic 4	<ul style="list-style-type: none"> Develop by using AL: How to Customize the UI experience and Use AL for business central extension is discussed here. It also delves into explaining the essential development standards.

Microsoft Dynamics 365 Business Central Developer Sample Questions (Q17-Q22):

NEW QUESTION # 17

A company plans to customize its per tenant extension reports. The company has the following requirements for the customization:

* Child data items must not be displayed on the request page for some master detail reports.

* Selecting key filter fields takes users too much time. The customization must decrease the amount of time to select the fields.

You need to optimize the report request page.

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

NOTE: Each correct selection is worth one point.

Report request page

Observation

Child data items of some master detail reports must not be displayed on the request page.

Decrease the amount of time to select filter fields.

Action

Set the PrintOnlyIfDetail property to true.
Set the UseRequestPage property to true.
Set the DataItemTableView sorting property.
Set the DataItemLinkReference property to the parent data item.

Set the SaveValues Property to true.
Specify the request page options.
Specify the RequestFilterFields property.
Specify the RequestFilterHeading property.

Answer:

Explanation:

Report request page

Observation
Child data items of some master detail reports must not be displayed on the request page.

Decrease the amount of time to select filter fields.

Action
Set the PrintOnlyIfDetail property to true.
Set the UseRequestPage property to true.
Set the DataItemLinkReference property to the parent data item.
Set the SaveValues Property to true.
Specify the request page options.
Specify the RequestFilterFields property.
Specify the RequestFilterHeading property.

Explanation:

For the given requirements, you should configure the following actions:

- * For child data items not to be displayed on the request page for some master-detail reports, set the `DataItemLinkReference` property to the parent data item.

- * To decrease the amount of time to select key filter fields, specify the `RequestFilterHeading` property.

In Dynamics 365 Business Central, when customizing report request pages, certain properties can be set to control the behavior and display of the report options:

- * **Hiding Child Data Items:** The `DataItemLinkReference` property is used to link a child data item to a parent data item in the data model of a report. Setting this property correctly will ensure that the child data items are related to the correct parent data item and will be displayed or hidden accordingly on the request page. If the goal is to prevent child data items from being displayed, you need to make sure they are correctly linked and configured to not appear.

- * **Optimizing Filter Field Selection:** The `RequestFilterHeading` property is used to group filter fields on the request page. By specifying this property, you can create a more organized and user-friendly interface, which can significantly speed up the process of selecting filters. This property allows you to categorize filters into headings, making it quicker and easier for users to find and set the necessary filters for the report.

By adjusting these properties on the report request page as part of the per tenant extension customization, you will address the company's requirements to optimize the user experience when running reports.

NEW QUESTION # 18

Case Study 1 - Contoso, Ltd

Background

Contoso, Ltd. is a sales company in the manufacturing industry. It has subsidiaries in multiple countries/regions, each with its own localization. The subsidiaries must be data-independent from each other. Contoso, Ltd. uses an external business partner to manage the subcontracting of some manufacturing items. Contoso, Ltd. has different sectors with data security between sectors required.

Current environment

Contoso, Ltd. uses Business Central online as the main ERP for financials, sales, purchase, warehouse, and manufacturing processes. It has employees that use the Business Central web application and external applications. The company has a custom external mobile app under development.

The IT department and its partners installed custom extensions to satisfy the company's requirements where the functionality is not available natively.

Contoso, Ltd. interacts with external services provided by customers and partners. Different applications interact with SOAP and OData endpoints exposed from Business Central.

An external business partner of Contoso, Ltd. exposed a REST API for receiving details about new subcontracting orders and for sending the planned release date of each subcontracting order received.

Contoso, Ltd. has not activated the monitoring of the tenant and has no internal telemetry for its apps.

Custom reporting must be created to meet the requirements of the different departments.

Tenant management

Contoso, Ltd. has the following tenant management considerations:

IT department

The IT department requires the ability to monitor the tenant to prevent performance problems and detect possible anomalies.

The IT department plans to use Azure Application Insights and Log Analytics to inspect the ingested telemetry signals.

All tenant upgrades are automatically handled by Microsoft. The IT department does not check for update availability or for tenant-related notifications.

The IT department has not configured the receipt of tenant-related notifications from the Business Central admin center.

External business partner

The external business partner must add custom telemetry to an application created for Contoso, Ltd. to monitor a business process.

Custom telemetry signals for the application must be visible only on the partner's telemetry.

SOAP

Contoso, Ltd. plans to dismiss using the SOAP protocol for integrations.

Contoso, Ltd. must be able to detect if external applications are using its Business Central SOAP endpoints.

Issue

The Business Central tenant is upgraded by Microsoft to a new major version during the night.

Users report that one of the Contoso, Ltd. extensions disappeared from the tenant. The IT department confirms that the extension is still published.

Custom mobile application requirements

Contoso, Ltd. plans to create a custom mobile application that has the following requirements:

The app must be used by employees to check item details from the ERP in real time and to report issues that occur during the manufacturing process.

An AL extension must be created for handling archived issues.

Business Central development guidelines must be followed when implementing modules.

A module must be implemented for the reporting and tracking of issues information. You plan to call this module Issue Management. The module must expose a method named PostIssue. Code modifications will be required over time.

The Issue Management process must be split into two extensions:

ISSUE BASE: main extension

ISSUE EXT: second extension with dependency from ISSUE BASE

In the version 1.0.0.0 of the ISSUE BASE extension, you plan to create an Issue table that contains a global Decimal variable named IssueTotal.

In the version 1.0.0.0 of the ISSUE BASE extension, you plan to define a table named Issue Category with a Description field defined as follows:

```
field(2; Description; Text[50])
{
    DataClassification = CustomerContent;
}
```

The Issue table defined in ISSUE BASE extension contains a Clone procedure defined as follows:

```
procedure Clone()
begin
end;
```

In the ISSUE EXT extension, you create a tableextension object of the Issue table.

The tableextension object of the Issue table must access the IssueTotal: Decimal variable.

After weeks of usage, you discover that you must remove the Description field and the Clone procedure because they are no longer required.

In a new version of the ISSUE BASE extension, you create a new Issue Type table. You must move data row by row from a previously obsolete Issue Category table to the new Issue Type table. Because a large amount of data must be moved, you must write an Upgrade codeunit by using the DataTransfer object.

The IT department creates a custom API for exposing the custom Issue table. The API provides an action for copying an issue to a new table. The action is defined as follows:

```
[ServiceEnabled]
procedure Copy(var actionContext: WebServiceActionContext)
begin
end;
```

Contoso, Ltd. must create an API in Business Central to expose item details to the mobile application.

The API must have the lowest possible impact on the production environment when used during working hours.

The API must only support Get operations.

Debugging problems

A user of the ISSUE BASE extension in Business Central reports a problem.

To debug the problem, snapshot debugging with the following configuration was activated:

```
"configurations": [
{
    "name": "snapshotInitialize: Microsoft production cloud",
    "type": "Full",
    "request": "snapshotInitialize",
    "environmentType": "Production",
    "environmentName": "production",
    "breakOnNext": "WebClient",
    "executionContext": "DebugAndProfile",
    "userId": "YOURUSERNAME"
}
```

You discover that the debugging is not triggering.

Integration with business partner for subcontracting

Contoso, Ltd. must connect Business Central to the external API provided by the business partner. This will be used for the partner to send the details of new subcontracting orders to fulfill the sales demand, and for receiving the planned release date of each order sent. The integration requirements are as follows:

The business partner will provide a REST API secured with basic authentication. Credentials to access the API will be shared with Contoso, Ltd.

The API for sending subcontracting orders must be called by sending an authenticated POST request to the given endpoint.

The API for retrieving the order no. and planned release date of each subcontracting order responds with the following JSON:

```
{
  "status": "OK",
  "num_results": 110,
  "results": [
    {
      "order_no": "SB0230034",
      "customer_name": "Contoso Ltd.",
      "planned_release_date": "2023-12-13",
      "updated_date": "2023-10-20"
    }
  ]
}
```

Each order no. must be retrieved.

Hotspot Question

You need to write the code to call the subcontractor's REST API.

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.

REST services

```
procedure CallSubcontractorAPI(Url: Text[2048]; Username: Text[100]; Password:
Text[100]; Body: Text)
var
    httpClient: HttpClient;
    ResponseMessage: HttpResponseMessage;
    RequestHeaders, ContentHeaders: HttpHeaders;
    httpContent: HttpContent;
    Base64Convert: Codeunit "Base64 Convert";
    Response: Text;
begin
    RequestHeaders := httpClient.DefaultRequestHeaders();
    RequestHeaders.Add(
        'Authentication', 'Basic ' +
        Base64Convert.FromBase64(Username + ':' + Password)
        Base64Convert.ToBase64(Username + ':' + Password)
        Base64Convert.ToBase64(Username) + Base64Convert.ToBase64>Password)
        Username + ':' + Password);

    httpContent.GetHeaders(ContentHeaders);
    ContentHeaders.Remove('Content-Type');
    ContentHeaders.Add('Content-Type', 'application/json');
    httpContent := Body
    httpContent.Clear()
    httpContent.WriteFrom(Body);

    if
        httpClient.Post(Url, httpContent)
        httpClient.Post(Url, httpContent, Response)
        httpClient.Post(Url, httpContent, ResponseMessage)
        httpClient.Send(Url, httpContent, ResponseMessage)
    then
        ResponseMessage.Content.ReadAs(Response);
end;
```

Answer:

Explanation:

REST services

```
procedure CallSubcontractorAPI(Url: Text[2048]; Username: Text[100]; Password:
Text[100]; Body: Text)
var
    httpClient: HttpClient;
    ResponseMessage: HttpResponseMessage;
    RequestHeaders, ContentHeaders: HttpHeaders;
    httpContent: HttpContent;
    Base64Convert: Codeunit "Base64 Convert";
    Response: Text;
begin
    RequestHeaders := httpClient.DefaultRequestHeaders();
    RequestHeaders.Add(
        'Authentication', 'Basic ' +
        Base64Convert.FromBase64(Username + ':' + Password)
        Base64Convert.ToBase64(Username + ':' + Password)
        Base64Convert.ToBase64(Username) + Base64Convert.ToBase64(Passwor
        Username + ':' + Password
    );

    httpContent.GetHeaders(ContentHeaders);
    ContentHeaders.Remove('Content-Type');
    ContentHeaders.Add('Content-Type', 'application/json');

    httpContent := Body
    httpContent.Clear()
    httpContent.WriteFrom(Body)

    if
        httpClient.Post(Url, httpContent)
        httpClient.Post(Url, httpContent, Response)
        httpClient.Post(Url, httpContent, ResponseMessage)
        httpClient.Send(Url, httpContent, ResponseMessage)
    then
        ResponseMessage.Content.ReadAs(Response);
end;
```



NEW QUESTION # 19

You plan to write unit test functions to test newly developed functionality in an app.

You must create a test codeunit to write the functions.

You need to select the property to use for the test codeunit.

Which property should you use to ensure that the requirements are fulfilled?

- A. SubType
- B. Access
- C. Description

Answer: A

Explanation:

When creating a test codeunit in Microsoft Dynamics 365 Business Central to write unit test functions, the SubType property (A) of the codeunit should be set to Test. This property is crucial for defining the codeunit's purpose and behavior within the application. By setting the SubType property to Test, you are indicating that the codeunit contains test functions intended to validate the functionality of other parts of the application, such as customizations or new developments.

This distinction ensures that the testing framework within Business Central recognizes the codeunit as a container for test functions, allowing it to execute these functions in a testing context, which can include setting up test data, running the tests, and cleaning up after the tests have completed.

NEW QUESTION # 20

A company has a Business Central online environment.

You are exporting a file from a client by using the DownloadFromStream method.

You need to create an InStream data type to send the data

Which solution should you use?

- A. Use OeateInStream method for BLOB field of "TempBlob" table.
- B. Use CreateInStream method for File type variable.
- C. Use OeateInStream method from codeunit "Temp Blob".

Answer: C

Explanation:

When exporting a file from a client using the DownloadFromStream method in a Business Central online environment, you need to create an InStream data type to send the data. The solution is to use the CreateInStream method from codeunit "Temp Blob" (A). The Temp Blob codeunit provides temporary storage of BLOBs (Binary Large Objects) and is commonly used for handling files and streams in Business Central. By using the CreateInStream method on a Temp Blob, you create an InStream that can then be used with the DownloadFromStream method to send the file data to the client. This approach is efficient for file handling and transfer in Business Central, especially in scenarios involving data export or file manipulation.

NEW QUESTION # 21

Hotspot Question

You develop a test application.

You must meet the following requirements:

- Roll back changes to a test method after run time.
- Run an approve action on a test page named TestPageA.

You need to implement the given requirements on the test codeunit.

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

NOTE: Each correct selection is worth one point.

Requirement	Action
Roll back changes to a test method after run time.	<div>Set the CommitBehavior attribute to Ignore.</div> <div>Set the ErrorBehavior attribute to Collect.</div> <div>Set the TestIsolation property to Function.</div> <div>Set the TransactionModel attribute to AutoRollBack.</div>
Run an approve action on TestPageA.	<div>Configure TestPageA.Approve.Enabled().</div> <div>Configure TestPageA.Approve.Invoke().</div> <div>Configure TestPageA.Approve.Visible().</div> <div>Configure TestPageA.Trap().</div>

Answer:

Explanation:

test applications

Requirement	Action
Roll back changes to a test method after run time.	<div>Set the CommitBehavior attribute to Ignore.</div> <div>Set the ErrorBehavior attribute to Collect.</div> <div>Set the TestIsolation property to Function.</div> <div>Set the TransactionModel attribute to AutoRollBack.</div>
Run an approve action on TestPageA.	<div>Configure TestPageA.Approve.Enabled().</div> <div>Configure TestPageA.Approve.Invoke().</div> <div>Configure TestPageA.Approve.Visible().</div> <div>Configure TestPageA.Trap().</div>

NEW QUESTION # 22

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