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Microsoft AI-102 exam is designed for professionals who want to validate their skills and knowledge in designing and implementing AI solutions on the Microsoft Azure platform. Designing and Implementing a Microsoft Azure AI Solution certification is intended for individuals who have experience in programming languages such as Python, C#, and JavaScript, and are familiar with Azure services such as Azure Cognitive Services, Azure Machine Learning, and Azure Bot Service.

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>> **Test AI-102 Registration** <<

## Valid AI-102 Test Guide | AI-102 Latest Test Questions

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### Skills measured

- Implement knowledge mining solutions (15-20%)
- Plan and manage an Azure Cognitive Services solution (15-20%)
- Implement conversational AI solutions (15-20%)
- Implement natural language processing solutions (20-25%)
- Implement Computer Vision solutions (20-25%)

## Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q49-Q54):

### NEW QUESTION # 49

You are developing an app that will use the text-to-speech capability of the Azure AI Speech service. The app will be used in motor vehicles.

You need to optimize the quality of the synthesized voice output.  
Which Speech Synthesis Markup Language (SSML) attribute should you configure?

- A. the style attribute of the mstts:express-as element
- **B. the effect attribute of the voice element**
- C. the pitch attribute of the prosody element
- D. the level attribute of the emphasis element

**Answer: B**

Explanation:

Optimize the auditory experience when providing high-fidelity speech in cars, buses, and other enclosed automobiles.  
<https://learn.microsoft.com/en-us/azure/ai-services/speech-service/speech-synthesis-markup-voice>:

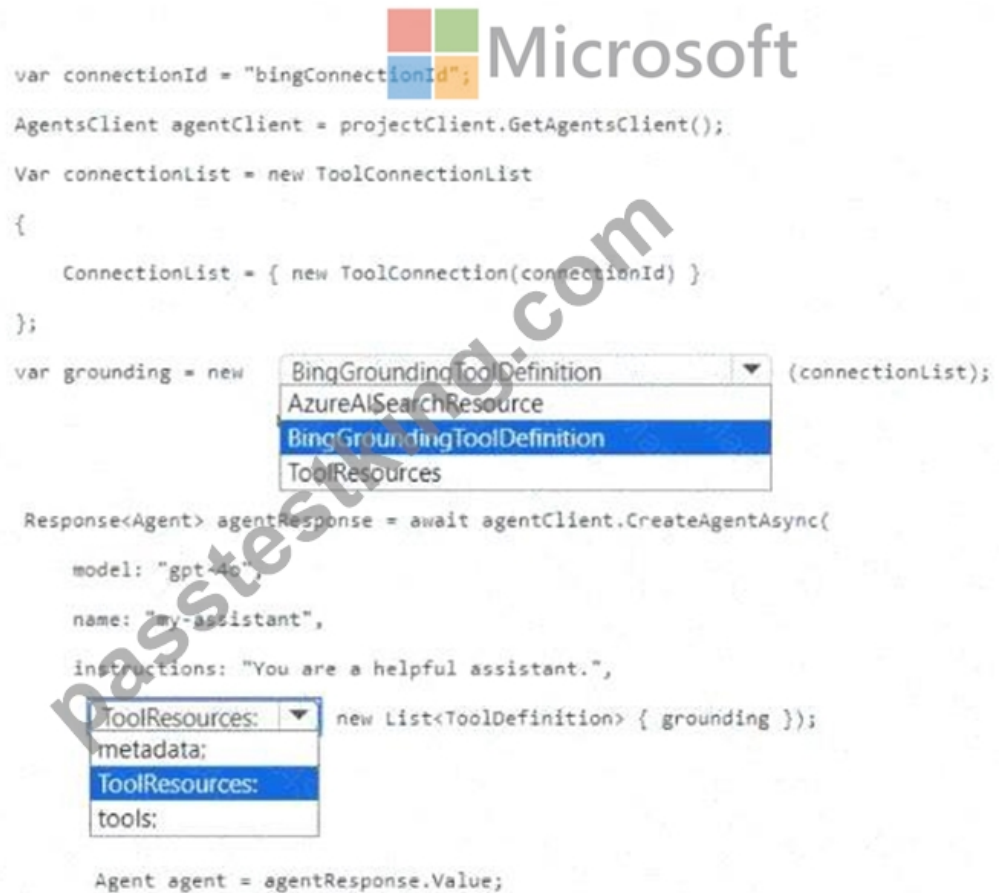
### NEW QUESTION # 50

You are building an agent by using the Azure AI Agent Service.

You need to ensure that the agent can access publicly accessible data that was released during the past 90 days.  
How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



```
var connectionId = "bingConnectionId";
AgentsClient agentClient = projectClient.GetAgentsClient();
Var connectionList = new ToolConnectionList
{
    ConnectionList = { new ToolConnection(connectionId) }
};
var grounding = new BingGroundingToolDefinition (connectionList);
Response<Agent> agentResponse = await agentClient.CreateAgentAsync(
    model: "gpt-4o",
    name: "my-assistant",
    instructions: "You are a helpful assistant.",
    ToolResources: new List<ToolDefinition> { grounding });
Agent agent = agentResponse.Value;
```

**Answer:**

Explanation:

Answer Area

```

var connectionId = "bingConnectionId";

AgentsClient agentClient = projectClient.GetAgentsClient();

Var connectionList = new ToolConnectionList
{
    ConnectionList = { new ToolConnection(connectionId) };
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    instructions: "You are a helpful assistant.",
    ToolResources: new List<ToolDefinition> { grounding });

Agent agent = agentResponse.Value;

```

Explanation:  
Answer Area

```

var connectionId = "bingConnectionId";

AgentsClient agentClient = projectClient.GetAgentsClient();

Var connectionList = new ToolConnectionList
{
    ConnectionList = { new ToolConnection(connectionId) };
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    model: "gpt-4o",
    name: "my-assistant",
    instructions: "You are a helpful assistant.",
    ToolResources: new List<ToolDefinition> { grounding });

Agent agent = agentResponse.Value;

```

To let an Azure AI Agent access publicly available, recent web content, you add the Bing grounding tool. In the SDK, you first define a ToolConnectionList with the Bing connection ID (here, "bingConnectionId"), then construct a BingGroundingToolDefinition(connectionList) so the agent can call Bing Search with recency filters (e.g., last 90 days) when answering questions.

When creating the agent, tool definitions are passed via the tools: parameter of CreateAgentAsync(...) as a List<ToolDefinition>. The toolResources parameter is used when you must also supply resource descriptors (for example, an Azure AI Search index configuration), which is not needed here because the Bing grounding tool already references the connection through the ToolConnectionList.

Therefore:

Use BingGroundingToolDefinition to ground the agent on current public web data.

Provide that tool in tools: new List<ToolDefinition> { grounding } when calling CreateAgentAsync(...).

Microsoft Azure AI References (titles only)

Azure AI Agent Service - Bing web grounding tool (tool definitions and connections) Azure AI Agent Service SDK - Agent creation ( CreateAgentAsync parameters: tools vs toolResources ) Azure AI Agent Service - Tool connections and ToolConnectionList

usage

### NEW QUESTION # 51

You are building a customer support chatbot.

You need to configure the bot to identify the following:

- \* Code names for internal product development
- \* Messages that include credit card numbers

The solution must minimize development effort.

Which Azure Cognitive Service for Language feature should you use for each requirement? To answer, drag the appropriate features to the correct requirements. Each feature 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.

Features

- Custom named entity recognition (NER)
- Key phrase extraction
- Language detection
- Named Entity Recognition (NER)
- Personally Identifiable Information (PII) detection
- Sentiment analysis

Answer Area

Identify code names for internal product development:

Identify messages that include credit card numbers:

**Answer:**

**Explanation:**

Features

- Custom named entity recognition (NER)
- Key phrase extraction
- Language detection
- Named Entity Recognition (NER)
- Personally Identifiable Information (PII) detection
- Sentiment analysis

Answer Area

Identify code names for internal product development:

Identify messages that include credit card numbers:

**Explanation**

D:\mudassar\Untitled.jpg

Features

- Custom named entity recognition (NER)
- Key phrase extraction
- Language detection
- Named Entity Recognition (NER)
- Personally Identifiable Information (PII) detection
- Sentiment analysis

Answer Area

Identify code names for internal product development:

Identify messages that include credit card numbers:

### NEW QUESTION # 52

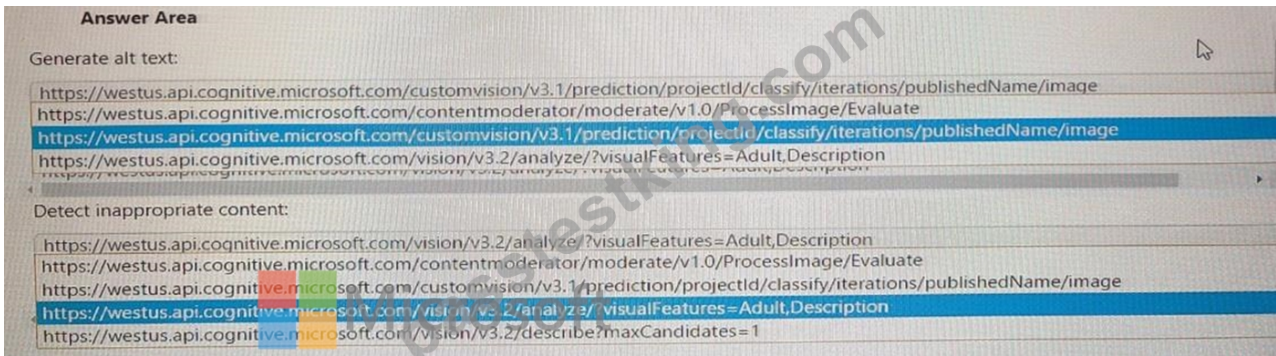
You are building an app that will enable users to upload images. The solution must meet the following requirements:

- \* Automatically suggest alt text for the images.
- \* Detect inappropriate images and block them.
- \* Minimize development effort.

You need to recommend a computer vision endpoint for each requirement.

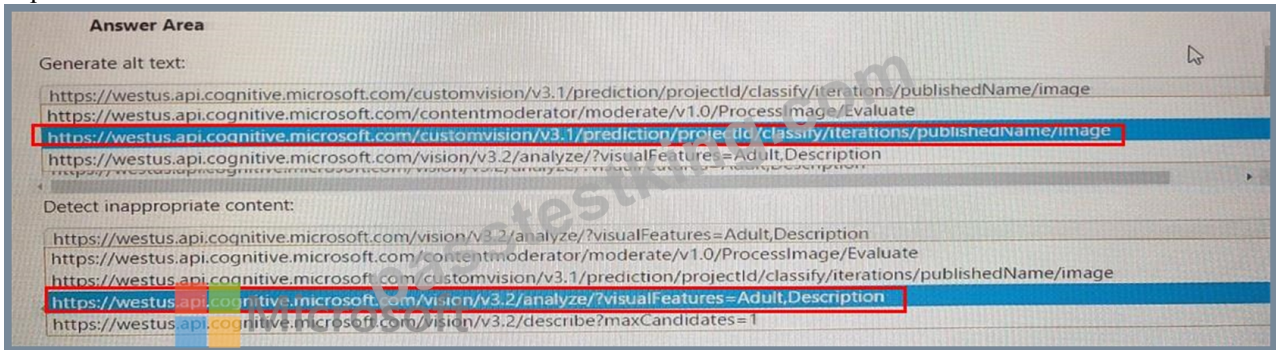
What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



**Answer:**

**Explanation:**



**NEW QUESTION # 53**

You are developing a method that uses the Computer Vision client library. The method will perform optical character recognition (OCR) in images. The method has the following code.

```
public static async Task ReadImageUrl(ComputerVisionClient client, string urlFile)
{
    const int numberOfCharsInOperationId = 136;

    var txtHeaders = await client.ReadAsync(urlFile, language: "en");

    string opLocation = textHeaders.OperationLocation;
    string operationId = opLocation.Substring(opLocation.Length -
        numberOfCharsInOperationId);

    ReadOperationResult results;

    results = await client.GetReadResultAsync(Guid.Parse(operationId));

    var textUrlFileResults = results.AnalyzeResult.ReadResults;
    foreach (ReadResult page in textUrlFileResults)
    {
        foreach (Line line in page.Lines)
        {
            Console.WriteLine(line.Text);
        }
    }
}
```

During testing, you discover that the call to the GetReadResultAsync method occurs before the read operation is complete. You need to prevent the GetReadResultAsync method from proceeding until the read operation is complete.

Which two actions should you perform? Each correct answer presents part of the solution. (Choose two.) NOTE: Each correct selection is worth one point.

- A. Wrap the call to GetReadResultAsync within a loop that contains a delay.
- B. Add code to verify the results.Status value.
- C. Remove the Guid.Parse(operationId) parameter.
- D. Add code to verify the status of the txtHeaders.Status value.

**Answer: A,B**

Explanation:

Comprehensive Detailed Explanation The method shown uses the Read API of the Azure Computer Vision client library. The ReadAsync call submits the OCR job and returns an Operation-Location header, which contains the operationId. Then GetReadResultAsync(Guid.Parse(operationId)) is called to fetch the result.

- \* The Read API is asynchronous.
- \* Submitting the read request does not mean the OCR has finished.
- \* If you immediately call GetReadResultAsync , the operation may still be in progress, resulting in incomplete or empty results.
- \* Check the results.Status property
- \* The response from GetReadResultAsync includes a status property.
- \* Possible values: notStarted , running , succeeded , failed .
- \* You must wait until the status is succeeded before processing results.
- \* This ensures you don't attempt to read lines before OCR has completed.
- \* This corresponds to B.
- \* Wrap in a loop with delay
- \* Since OCR takes time, you need to poll the service until the status becomes succeeded or failed .
- \* A typical pattern is:

```
* ReadOperationResult results;  
* do  
* {  
* results = await client.GetReadResultAsync(Guid.Parse(operationId));  
* await Task.Delay( 1000 ); // wait 1 second before retrying  
* }  
* while (results.Status == OperationStatusCodes.Running || results.Status == OperationStatusCodes.  
NotStarted);
```

NotStarted);

\* This corresponds to D.

The Issue Required Fixes

- \* A. Remove the Guid.Parse(operationId) parameter
- \* Incorrect. The operationId is required to fetch the OCR results.
- \* B. Add code to verify the results.Status value
- \* Correct. You must check whether the operation has completed.
- \* C. Add code to verify the status of the txtHeaders.Status value
- \* Incorrect. txtHeaders only contains metadata and the operation location. The OCR completion status comes from the results.Status in the GetReadResultAsync response, not from txtHeaders .
- \* D. Wrap the call to GetReadResultAsync within a loop that contains a delay
- \* Correct. This is how you poll until the operation has finished.

Option Analysis

B and D

- \* Azure Computer Vision Read API
  - \* Read text using the Computer Vision client library
- Microsoft References

## NEW QUESTION # 54

.....

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