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>> AI-102 Study Tool <<

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## Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q43-Q48):

### NEW QUESTION # 43

You are designing a conversation flow to be used in a chatbot.

You need to test the conversation flow by using the Microsoft Bot Framework Emulator.

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

NOTE: Each correct selection is worth one point.

```
user=User1  
bot=watchbot  
user: I want a new watch.
```



```
bot: [ [Delay=3000]
```

- Attachment
- ConversationUpdate
- Typing

```
bot: I can help you with that! Let me see what I can find.
```

```
bot: Here's what I found.
```

```
bot:
```

```
[AttachmentLayout=
```

- adaptivecard
- carousel
- thumbnail

```
[Attachment=https://contoso.blob.core.windows.net/watch01.jpg]
```

```
[Attachment=https://contoso.blob.core.windows.net/watch02.jpg]
```

```
user: I like the first one.
```

```
bot: Sure, pulling up more information.
```

```
bot: [Attachment=cards\watchProfileCard.json
```

```
user: That's nice! Thank you.
```

```
bot: Sure, you are most welcome!
```

- adaptivecard
- carousel
- list

**Answer:**

Explanation:

```

user=user1
bot=watchbot
user: I want a new watch.

bot: [Attachment
      ConversationUpdate
      Typing] [Delay=3000]

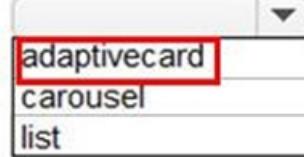
bot: I can help you with that! Let me see what I can find.
bot: Here's what I found.
bot:

[AttachmentLayout=
  adaptivecard
  carousel
  thumbnail]

[Attachment=https://contoso.blob.core.windows.net/watch01.jpg]
[Attachment=https://contoso.blob.core.windows.net/watch02.jpg]
user: I like the first one.
bot: Sure, pulling up more information.

bot: [Attachment=cards\watchProfileCard.json]
user: That's nice! Thank you.
bot: Sure, you are most welcome!

```



Reference:  
<https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-add-media-attachments?view=azure-bot-service-4.0&tabs=csharp>

#### NEW QUESTION # 44

Your company uses an Azure Cognitive Services solution to detect faces in uploaded images. The method to detect the faces uses the following code.

```

static async Task DetectFaces(string imagePath)
{
    HttpClient client = new HttpClient();
    DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", subscriptionKey);
    string requestParameter = "detectionModel=detection_01&returnFaceId=true&returnFaceLandmarks=false";
    string uri = endpoint + "/face/v1.0/detect?" + requestParameters;
    HttpResponseMessage response;
    byte[] byteData = GetImagesAsByteArray(imagePath);
    using (ByteArrayContent content = new ByteArrayContent(byteData))
    {
        Headers.ContentType = new MediaTypeHeaderValue("application/octet-stream");
        response = await PostAsync(uri, content);
        string contentString = await Content.ReadAsStringAsync();
        ProcessDetection(contentString);
    }
}

```

You discover that the solution frequently fails to detect faces in blurred images and in images that contain sideways faces.

- A. Use the Identify method instead of the Detect method.
- B. Use the Computer Vision service instead of the Face service.
- C. Use a different version of the Face API.
- D. Change the detection model.

You need to increase the likelihood that the solution can detect faces in blurred images and images that contain sideways faces.

What should you do?

**Answer: D**

#### Explanation:

Evaluate different models.

The best way to compare the performances of the detection models is to use them on a sample dataset. We recommend calling the Face - Detect API on a variety of images, especially images of many faces or of faces that are difficult to see, using each detection model. Pay attention to the number of faces that each model returns.

#### Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/face/face-api-how-to-topics/specify-detection-model>

### NEW QUESTION # 45

You have the following C# method.



You need to deploy an Azure resource to the East US Azure region. The resource will be used to perform sentiment analysis. How should you call the method?

- A. `create_resource("res1", "TextAnalytics", "S0", "eastus")`
- B. `create_resource("res1", "TextAnalytics", "Standard", "East US")`
- C. `create_resource("res1", "ContentModerator", "Standard", "East US")`
- D. `create_resource("res1", "ContentModerator", "S0", "eastus")`

#### Answer: A

#### Explanation:

To perform sentiment analysis, we specify TextAnalytics, not ContentModerator.

Possible SKU names include: 'F0', 'F1', 'S0', 'S1', 'S2', 'S3', 'S4', 'S5', 'S6', 'S7', 'S8' Possible location names include: westus, eastus

#### Reference:

<https://docs.microsoft.com/en-us/powershell/module/az.cognitiveservices/new-azcognitiveservicesaccount>

### NEW QUESTION # 46

You build a bot by using the Microsoft Bot Framework SDK.

You need to test the bot interactively on a local machine.

Which three 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.

Actions
Register the bot with the Azure Bot Service.
Open the Bot Framework Composer.
Build and run the bot.
Open the Bot Framework Emulator.
Connect to the bot endpoint.

#### Answer Area



#### Answer:

#### Explanation:

Answer Area
Build and run the bot.
Open the Bot Framework Emulator.
Connect to the bot endpoint.

1 - Build and run the bot.

2 - Open the Bot Framework Emulator.

3 - Connect to the bot endpoint.

### NEW QUESTION # 47

You are developing an application that will use the Computer Vision client library. The application has the following code.

```

public async Task AnalyzeImage(ComputerVisionClient client, string localImage)
{
    List<VisualFeatureTypes> features = new List<VisualFeatureTypes>()
    {
        VisualFeatureTypes.Description,
        VisualFeatureTypes.Tags,
    };
    using (Stream imageStream = File.OpenRead(localImage))
    {
        try
        {
            ImageAnalysis results = await client.AnalyzeImageInStreamAsync(imageStream, features);

            foreach (var caption in results.Description.Captions)
            {
                Console.WriteLine($"{caption.Text} with confidence {caption.Confidence}");
            }

            foreach (var tag in results.Tags)
            {
                Console.WriteLine($"{tag.Name} {tag.Confidence}");
            }
        }
        catch (Exception ex)
        {
            Console.WriteLine(ex.Message);
        }
    }
}

```

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 Area

Statements	Yes	No
The code will perform face recognition.	<input type="radio"/>	<input type="radio"/>
The code will list tags and their associated confidence.	<input type="radio"/>	<input type="radio"/>
The code will read a file from the local file system.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

### Answer Area

Statements	Yes	No
The code will perform face recognition.	<input type="radio"/>	<input checked="" type="radio"/>
The code will list tags and their associated confidence.	<input checked="" type="radio"/>	<input type="radio"/>
The code will read a file from the local file system.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

The code will perform face recognition # No

The code will list tags and their associated confidence # Yes

The code will read a file from the local file system # Yes

The given method uses the Computer Vision client library:

\* It specifies the features:

\* List<VisualFeatureTypes> features = new List<VisualFeatureTypes>()

\* {

\* VisualFeatureTypes.Description,

\* VisualFeatureTypes.Tags,

\* };

That means it will return descriptions (captions) and tags from the image.

- \* The image is opened from the local file system.
  - \* using (Stream imageStream = File.OpenRead(locallImage))
  - \* The analysis call:
  - \* ImageAnalysis results = await client.AnalyzeImageInStreamAsync(imageStream, features);
  - \* It prints captions and tags with their confidence values.
  - \* "The code will perform face recognition."
  - \* No.
  - \* The requested features are Description and Tags, not Faces.
  - \* Face recognition would require VisualFeatureTypes.Faces.
  - \* "The code will list tags and their associated confidence."
  - \* Yes.
  - \* The foreach (var tag in results.Tags) loop outputs tag name and confidence.
  - \* "The code will read a file from the local file system."
  - \* Yes.
  - \* It uses File.OpenRead(locallImage) which reads from disk.
  - \* The code will perform face recognition # No
  - \* The code will list tags and their associated confidence # Yes
  - \* The code will read a file from the local file system # Yes
  - \* Analyze an image with the Computer Vision API
  - \* VisualFeatureTypes enum reference

## NEW QUESTION # 48

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