

Microsoft

Exam Questions AI-102

Designing and Implementing an Azure AI Solution



NEW QUESTION 1

- (Topic 3)

You are building a retail kiosk system that will use a custom neural voice. You acquire audio samples and consent from the voice talent. You need to create a voice talent profile.

What should you upload to the profile?

- A. a five-minute wav or mp3 file of the voice talent describing the kiosk system
- B. a five-minute .flac audio file and the associated transcript as a w file
- C. a .wav or mp3 file of the voice talent consenting to the creation of a synthetic version of their voice
- D. a .zip file that contains 10-second .wav files and the associated transcripts as .txt files

Answer: D

NEW QUESTION 2

DRAG DROP - (Topic 3)

You plan to use containerized versions of the Anomaly Detector API on local devices for testing and in on-premises datacenters.

You need to ensure that the containerized deployments meet the following requirements:

? Prevent billing and API information from being stored in the command-line histories of the devices that run the container.

? Control access to the container images by using Azure role-based access control (Azure RBAC).

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. (Choose four.)

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

Actions

Answer Area

- | |
|--|
| Create a custom Dockerfile. |
| Pull the Anomaly Detector container image. |
| Distribute a <code>docker run</code> script. |
| Push the image to an Azure container registry. |
| Build the image. |
| Push the image to Docker Hub. |

Solution:

Step 1: Pull the Anomaly Detector container image. Step 2: Create a custom Dockerfile

Step 3: Build the image

Step 4: Push the image to an Azure container registry.

<https://docs.microsoft.com/en-us/azure/cognitive-services/containers/container-reuse-recipe>

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 3

- (Topic 3)

You are designing a conversational interface for an app that will be used to make vacation requests. The interface must gather the following data:

- The start date of a vacation
- The end date of a vacation
- The amount of required paid time off

The solution must minimize dialog complexity. Which type of dialog should you use?

- A. Skill
- B. waterfall
- C. adaptive
- D. component

Answer: D

NEW QUESTION 4

- (Topic 3)

Your company needs to implement a relational database in Azure. The solution must minimize ongoing maintenance. Which Azure service should you use?

- A. SQL Server on Azure Virtual Machines
- B. Azure SQL Database
- C. Azure HDInsight
- D. Azure Cosmos DB

Answer: B

NEW QUESTION 5

- (Topic 3)

You have an Azure subscription that contains an Anomaly Detector resource. You deploy a Docker host server named Server 1 to the on-premises network. You need to host an instance of the Anomaly Detector service on Server 1. Which parameter should you include in the docker run command?

- A. Fluentd
- B. Billing
- C. Http Proxy
- D. Mounts

Answer: B

NEW QUESTION 6

- (Topic 3)

You have a factory that produces food products. You need to build a monitoring solution for staff compliance with personal protective equipment (PPE) requirements. The solution must meet the following requirements:

- identify staff who have removed masks or safety glasses.
- Perform a compliance check every 15 minutes.
- Minimize development effort.
- Minimize costs.

Which service should you use?

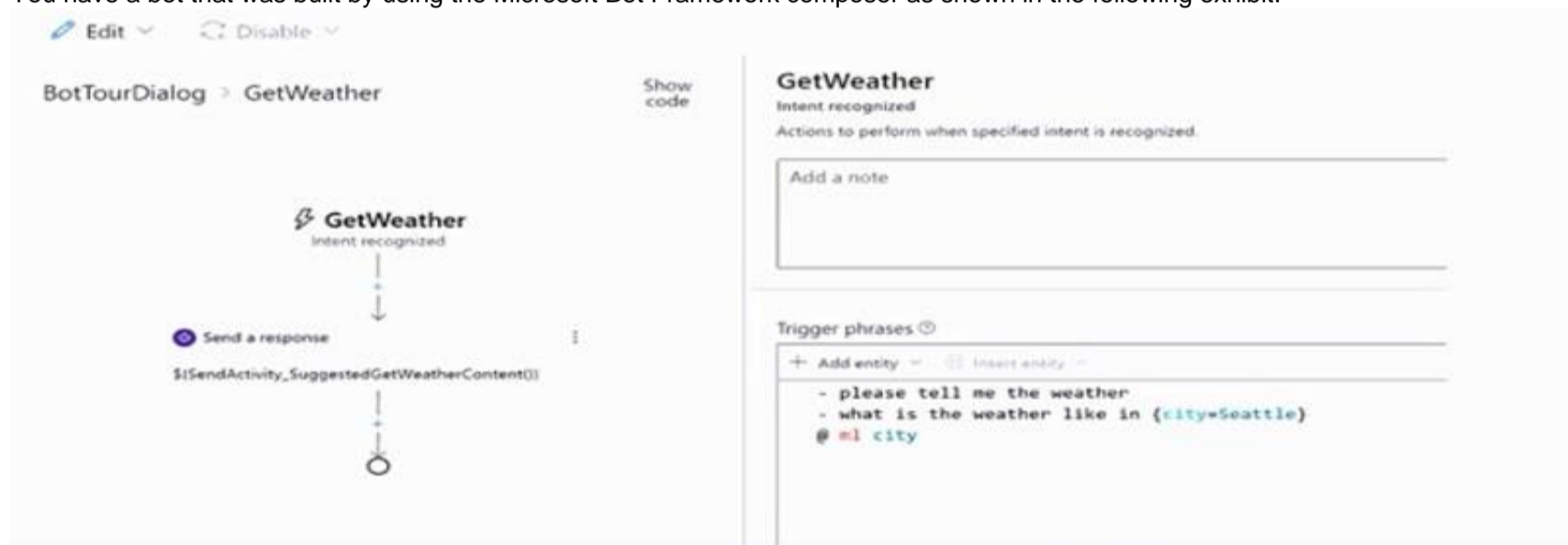
- A. Face
- B. Computer Vision
- C. Azure Video Analyzer for Media (formerly Video indexer)

Answer: A

NEW QUESTION 7

HOTSPOT - (Topic 3)

You have a bot that was built by using the Microsoft Bot Framework composer as shown in the following exhibit.



Use the drop-down menus 10 select the answer choice that completes each statement based on the information presented in the graphic.
 NOTE: Each correct selection is worth one point.

Answer Area

If a user asks "what is the weather like in New York", the bot will **[answer choice]**.

- identify New York as a city entity
- change to a different dialog
- identify New York as a city entity
- identify New York as a state entity
- respond with the weather in Seattle

The GetWeather dialog uses a **[answer choice]** trigger.

- Language Understanding Intent recogn...
- Custom events
- Dialog events
- Language Understanding Intent recognized
- QnA Intent recognized

Solution:

Answer Area

If a user asks "what is the weather like in New York", the bot will **[answer choice]**.

- identify New York as a city entity
- change to a different dialog
- identify New York as a city entity
- identify New York as a state entity
- respond with the weather in Seattle

The GetWeather dialog uses a **[answer choice]** trigger.

- Language Understanding Intent recogn...
- Custom events
- Dialog events
- Language Understanding Intent recognized
- QnA Intent recognized

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 8

HOTSPOT - (Topic 3)

You are developing an application that includes language translation.

The application will translate text retrieved by using a function named `get_text_to_be_translated`. The text can be in one of many languages. The content of the text must remain within the Americas Azure geography.

You need to develop code to translate the text to a single language.

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

```

...
api_key = "FF956C6883821838691A8D200A4C606"
text = get_text_to_be_translated()
headers = {
    'Content-Type': 'application/json',
    'Ocp-Apim-Subscription-Key': api_key
}
body = {
    'Text': text
}
conn = httplib.HTTPSConnection
conn.request("POST",
response = conn.getresponse()
    conn.request("POST",
response = conn.getrespons
response_data = response.r
...
    
```

Solution:

Answer Area

```

...
api_key = "FF956C6883821838691A8D200A4C606"
text = get_text_to_be_translated()
headers = {
    'Content-Type': 'application/json',
    'Ocp-Apim-Subscription-Key': api_key
}
body = {
    'Text': text
}
conn = httplib.HTTPSConnection
conn.request("POST",
response = conn.getresponse()
    conn.request("POST",
response = conn.getrespons
response_data = response.r
...
    
```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 9

DRAG DROP - (Topic 3)

You have a Custom Vision resource named `acvdev` in a development environment. You have a Custom Vision resource named `acvprod` in a production environment.

In `acvdev`, you build an object detection model named `obj1` in a project named `proj1`. You need to move `obj1` to `acvprod`.

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.

Actions	Answer Area
Use the <code>ExportProject</code> endpoint on <code>acvdev</code> .	
Use the <code>GetProjects</code> endpoint on <code>acvdev</code> .	
Use the <code>ImportProject</code> endpoint on <code>acvprod</code> .	⏪
Use the <code>ExportIteration</code> endpoint on <code>acvdev</code> .	⏩
Use the <code>GetIterations</code> endpoint on <code>acvdev</code> .	
Use the <code>UpdateProject</code> endpoint on <code>acvprod</code> .	⏴
	⏵

Solution:

Actions	Answer Area
Use the ExportProject endpoint on acvdev.	Use the GetProjects endpoint on acvdev.
Use the GetProjects endpoint on acvdev.	Use the ExportProject endpoint on acvdev.
Use the ImportProject endpoint on acvprod.	Use the ImportProject endpoint on acvprod.
Use the ExportIteration endpoint on acvdev.	
Use the GetIterations endpoint on acvdev.	
Use the UpdateProject endpoint on acvprod.	

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 10

- (Topic 3)

You have an Azure subscription that contains an AI enrichment pipeline in Azure Cognitive Search and an Azure Storage account that has 10 G8 of scanned documents and images. You need to index the documents and images in the storage account. The solution must minimize how long it takes to build the index. What should you do?

- A. From the Azure portal, configure parallel indexing.
- B. Create a text-based indexer by using the REST API.
- C. From the Azure portal, configure scheduled indexing.
- D. Configure field mappings by using the REST API.

Answer: A

NEW QUESTION 11

- (Topic 3)

You are building a Language Understanding model for an e-commerce platform. You need to construct an entity to capture billing addresses. Which entity type should you use for the billing address?

- A. machine learned
- B. Regex
- C. geographyV2
- D. Pattern.any
- E. list

Answer: A

Explanation:

An ML entity can be composed of smaller sub-entities, each of which can have its own properties. For example, Address could have the following structure:
 Address: 4567 Main Street, NY, 98052, USA Building Number: 4567
 Street Name: Main Street State: NY
 Zip Code: 98052 Country: USA
<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-entity-types>

NEW QUESTION 12

- (Topic 3)

A customer uses Azure Cognitive Search. The customer plans to enable a server-side encryption and use customer-managed keys (CMK) stored in Azure. What are three implications of the planned change? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. The index size will increase.
- B. Query times will increase.
- C. A self-signed X.509 certificate is required.
- D. The index size will decrease.
- E. Query times will decrease.
- F. Azure Key Vault is required.

Answer: ABF

Explanation:

"Customer-managed keys require an additional billable service, Azure Key Vault, which can be in a different region, but under the same subscription, as Azure Cognitive Search. Enabling CMK encryption will increase index size and degrade query performance."
 same document also lists Azure Key Vault as a requirement: <https://docs.microsoft.com/en-us/azure/search/search-security-overview#data-protection>

NEW QUESTION 13

HOTSPOT - (Topic 3)

You are reviewing the design of a chatbot. The chatbot includes a language generation file that contains the following fragment.

```
# Greet(user)
```

```
- ${Greeting()}, ${user.name}
```

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
<code>\${user.name}</code> retrieves the user name by using a prompt.	<input type="radio"/>	<input type="radio"/>
<code>Greet ()</code> is the name of the language generation template.	<input type="radio"/>	<input type="radio"/>
<code>\${Greeting () }</code> is a reference to a template in the language generation file.	<input type="radio"/>	<input type="radio"/>

Solution:

Box 1: No

Example: Greet a user whose name is stored in `user.name`

```
- ${ welcomeUser(user.name) }
```

Example: Greet a user whose name you don't know:

```
- ${ welcomeUser() }
```

Box 2: No

Greet(User) is a Send a response action. Box 3: Yes

Does this meet the goal?

A. Yes

B. No

Answer: A

NEW QUESTION 14

- (Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You create a web app named app1 that runs on an Azure virtual machine named vm1. Vm1 is on an Azure virtual network named vnet1.

You plan to create a new Azure Cognitive Search service named service1.

You need to ensure that app1 can connect directly to service1 without routing traffic over the public internet.

Solution: You deploy service1 and a public endpoint to a new virtual network, and you configure Azure Private Link.

Does this meet the goal?

A. Yes

B. No

Answer: B

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/cognitive-services-virtual-networks?tabs=portal#use-private-endpoints>

NEW QUESTION 15

HOTSPOT - (Topic 3)

You are building an Azure Cognitive Search custom skill. You have the following custom skill schema definition.

```
{
  "@odata.type": "#Microsoft.Skills.Custom.WebApiSkill",
  "description": "My custom skill description",
  "uri": "https://contoso-webskill.azurewebsites.net/api/process",
  "context": "/document/organizations/*",
  "inputs": [
    {
      "name": "companyName",
      "source": "/document/organizations/*"
    }
  ],
  "outputs": [
    {
      "name": "companyDescription",
    }
  ]
}
```

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

NOTE: Each correct selection is worth one point.

Answer Area

Statements	Yes	No
CompanyDescription is available for indexing.	<input type="checkbox"/>	<input type="checkbox"/>
The definition calls a web API as part of the enrichment process.	<input type="checkbox"/>	<input type="checkbox"/>
The enrichment step is called only for the first organization under “/document/organizations”.	<input type="checkbox"/>	<input type="checkbox"/>

Solution:

Box 1: Yes

Once you have defined a skillset, you must map the output fields of any skill that directly contributes values to a given field in your search index.

Box 2: Yes

The definition is a custom skill that calls a web API as part of the enrichment process.

Box 3: No

For each organization identified by entity recognition, this skill calls a web API to find the description of that organization.

Does this meet the goal?

A. Yes

B. No

Answer: A

NEW QUESTION 16

- (Topic 3)

You are building a solution that will detect anomalies in sensor data from the previous 24 hours.

You need to ensure that the solution scans the entire dataset, at the same time, for anomalies.

Which type of detection should you use?

A. batch

B. streaming

C. change point

Answer: A

Explanation:

Batch anomaly detection is a type of anomaly detection that scans the entire dataset at once for outliers and unusual patterns. Batch anomaly detection is suitable for offline analysis of historical data, such as sensor data from the previous 24 hours. Batch anomaly detection can use various techniques, such as statistical methods, machine learning methods, or hybrid methods, to identify anomalies in the data.

NEW QUESTION 17

- (Topic 3)

You have an Azure subscription that contains an Azure App Service app named App1. You provision a multi-service Azure Cognitive Services resource named CSAccount1.

You need to configure App1 to access CSAccount1. The solution must minimize administrative effort.

What should you use to configure App1?

A. a system-assigned managed identity and an X.509 certificate

B. the endpoint URI and an OAuth token

C. the endpoint URI and a shared access signature (SAS) token

D. the endpoint URI and subscription key

Answer: D

NEW QUESTION 18

HOTSPOT - (Topic 3)

You are building a chatbot by using the Microsoft Bot Framework Composer. You have the dialog design shown in the following exhibit.

AskForName > BeginDialog > Text
Show code

Prompt for text
Text input
Collection information - Ask for a word or sentence.
[Learn more](#)

Bot Asks User Input Other

Property ⓘ string ▾
user.name

Output Format ⓘ string ▾
ex. =toUpper(this.value), \$(toUpper(this.value))

Value ⓘ expression ▾
fx =coalesce(@user.Name.@personName)

Expected responses (intent:
#TextInput_Response_GH5FTe)

>

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
user.name is an entity.	<input type="radio"/>	<input type="radio"/>
The dialog asks for a user name and a user age and assigns appropriate values to the user.name and user.age properties.	<input type="radio"/>	<input type="radio"/>
The chatbot attempts to take the first non-null entity value for userName or personName and assigns the value to user.name.	<input type="radio"/>	<input type="radio"/>

Solution:

Box 1: No
 User.name is a property. Box 2: Yes
 Box 3: Yes
 The coalesce() function evaluates a list of expressions and returns the first non-null (or non-empty for string) expression.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 19

HOTSPOT - (Topic 3)
 You have an Azure subscription that contains an Azure AI Document Intelligence resource named DM.
 You build an app named App1 that analyzes PDF files for handwritten content by using DM.
 You need to ensure that App1 will recognize the handwritten content.
 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

```

Uri fileUri = new Uri("<fileUri>");
AnalyzeDocumentOperation operation = await client.AnalyzeDocumentFromUriAsync(WaitUntil.Completed,
AnalyzeResult result = operation.Value;
foreach (DocumentStyle style in result.Styles)
{
    bool isHandwritten = style.IsHandwritten.HasValue && style.IsHandwritten == true;
    if (isHandwritten && style.Confidence > 0.75 )
    {
        Console.WriteLine($"Handwritten content found:");
        foreach (DocumentSpan span in style.Spans)
        {
            Console.WriteLine($" Content: {result.Content.Substring(span.Index, span.Length)}");
        }
    }
}
}
    
```

Solution:

Answer Area

```

Uri fileUri = new Uri("<fileUri>");
AnalyzeDocumentOperation operation = await client.AnalyzeDocumentFromUriAsync(WaitUntil.Completed,
AnalyzeResult result = operation.Value;
foreach (DocumentStyle style in result.Styles)
{
    bool isHandwritten = style.IsHandwritten.HasValue && style.IsHandwritten == true;
    if (isHandwritten && style.Confidence > 0.75 )
    {
        Console.WriteLine($"Handwritten content found:");
        foreach (DocumentSpan span in style.Spans)
        {
            Console.WriteLine($" Content: {result.Content.Substring(span.Index, span.Length)}");
        }
    }
}
}
    
```

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 20

DRAG DROP - (Topic 3)

You have a Custom Vision service project that performs object detection. The project uses the General domain for classification and contains a trained model. You need to export the model for use on a network that is disconnected from the internet. 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.

Actions

- Change Domains to **General (compact)**.
- Retrain the model.
- Create a new classification model.
- Change the classification type.
- Export the model.

Answer Area

Solution:

Actions

- Change Domains to **General (compact)**.
- Retrain the model.
- Create a new classification model.
- Change the classification type.
- Export the model.

Answer Area

Create a new classification model.

Change the classification type.

Export the model.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 21

HOTSPOT - (Topic 3)

You are building a chatbot by using the Microsoft Bot Framework SDK.

You use an object named `UserProfile` to store user profile information and an object named `ConversationData` to store information related to a conversation.

You create the following state accessors to store both objects in state.

```
var userStateAccessors = _userState.CreateProperty<UserProfile>(nameof(UserProfile)); var conversationStateAccessors =
_conversationState.CreateProperty<ConversationData>(nameof(ConversationData));
```

The state storage mechanism is set to Memory Storage.

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
The code will create and maintain the <code>UserProfile</code> object in the underlying storage layer.	<input type="radio"/>	<input type="radio"/>
The code will create and maintain the <code>ConversationData</code> object in the underlying storage layer.	<input type="radio"/>	<input type="radio"/>
The <code>UserProfile</code> and <code>ConversationData</code> objects will persist when the Bot Framework runtime terminates.	<input type="radio"/>	<input type="radio"/>

Solution:

Box 1: Yes

You create property accessors using the `CreateProperty` method that provides a handle to the `BotState` object. Each state property accessor allows you to get or set the value of the associated state property.

Box 2: Yes

Box 3: No

Before you exit the turn handler, you use the state management objects' `SaveChangesAsync()` method to write all state changes back to storage.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 22

HOTSPOT - (Topic 3)

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"/>

Solution:

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"/>

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 23

- (Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a chatbot that uses question answering in Azure Cognitive Service for Language Users report that the responses of the chatbot lack formality when answering spurious questions

You need to ensure that the chatbot provides formal responses to spurious questions. Solution: From Language Studio, you remove all the chit-chat question and answer pairs, and then retrain and republish the model Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Removing all the chit-chat question and answer pairs from the project will not ensure that the chatbot provides formal responses to spurious questions. It will only make the chatbot unable to handle any chit-chat scenarios, which may result in a poor user experience and a loss of engagement. Instead, you should choose a chit-chat personality that matches the tone and style of your chatbot, such as Professional or Caring. You can also edit the chit-chat questions and answers to suit your specific needs, or add new ones that are not in the predefined data set. This way, you can ensure that the chatbot responds appropriately to spurious questions, while still maintaining a conversational and engaging interaction with the user.

NEW QUESTION 24

DRAG DROP - (Topic 3)

You train a Custom Vision model used in a mobile app.

You receive 1,000 new images that do not have any associated data.

You need to use the images to retrain the model. The solution must minimize how long it takes to retrain the model.

Which three actions should you perform in the Custom Vision portal? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- Upload the images by category.
- Get suggested tags.
- Upload all the images.
- Group the images locally into category folders.
- Review the suggestions and confirm the tags.
- Tag the images manually.

Answer Area



Solution:

1) upload all the images 2.) Get suggested tags 3.) Review the suggestions and confirm the tags

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 25

- (Topic 3)

Which statement is an example of Data Manipulation Language (DML)?

- A. Revoke
- B. UPDATE
- C. DROP
- D. CREATE

Answer: B

NEW QUESTION 26

HOTSPOT - (Topic 1)

You are planning the product creation project.

You need to build the REST endpoint to create the multilingual product descriptions. How should you complete the URI? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

<div style="border: 1px solid #ccc; padding: 2px;">▼</div> <ul style="list-style-type: none"> api.cognitive.microsofttranslator.com api-nam.cognitive.microsofttranslator.com westus.tts.speech.microsoft.com wwics.cognitiveservices.azure.com/translator 	<div style="border: 1px solid #ccc; padding: 2px;">▼</div> <ul style="list-style-type: none"> /detect /languages /text-to-speech /translate 	<p>?api-version=3.0&to=es&to=pt</p>
--	---	---

Solution:

Box 1: api-nam.cognitive.microsofttranslator.com

<https://docs.microsoft.com/en-us/azure/cognitive-services/translator/reference/v3-0-reference>

Box 2: /translate

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 27

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