



AI-102^{Q&As}

Designing and Implementing a Microsoft Azure AI Solution (beta)

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QUESTION 1

HOTSPOT

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.

Hot Area:

Answer Area

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"/>

Correct Answer:

Answer Area

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

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

Reference:

<https://docs.microsoft.com/en-us/composer/how-to-ask-for-user-input>

QUESTION 2

HOTSPOT

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.

Hot Area:



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"/>

Correct Answer:

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 type="radio"/>	<input checked="" type="radio"/>

Box 1: No

Box 2: Yes

The ComputerVision.analyzeImageInStreamAsync operation extracts a rich set of visual features based on the image content.

Box 3: No

Images will be read from a stream.

Reference:

<https://docs.microsoft.com/en-us/java/api/com.microsoft.azure.cognitiveservices.vision.computervision.computervision.analyzeimageinstreamasync>

QUESTION 3

HOTSPOT

You are developing a service that records lectures given in English (United Kingdom).

You have a method named AppendToTranscriptFile that takes translated text and a language identifier.



You need to develop code that will provide transcripts of the lectures to attendees in their respective language. The supported languages are English, French, Spanish, and German.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
static async Task TranslateSpeechAsync()
{
    var config = SpeechTranslationConfig.FromSubscription("69cad5cc-0ab3-4704-bdff-afbf4aa07d85", "uksouth");

    var lang = new List<string>
    {
        "en-GB"
    };

    config.SpeechRecognitionLanguage = "en-GB";
    lang.ForEach(config.AddTargetLanguage);

    using var audioConfig = AudioConfig.FromDefaultMicrophoneInput();
    using var recognizer = new (config, audioConfig);

    var result = await recognizer.RecognizeOnceAsync();
    if (result.Reason == ResultReason.TranslatedSpeech)
```

Correct Answer:

Answer Area

```
static async Task TranslateSpeechAsync()
{
    var config = SpeechTranslationConfig.FromSubscription("69cad5cc-0ab3-4704-bdff-afbf4aa07d85", "uksouth");

    var lang = new List<string>
    {
        "en-GB"
    };

    config.SpeechRecognitionLanguage = "en-GB";
    lang.ForEach(config.AddTargetLanguage);

    using var audioConfig = AudioConfig.FromDefaultMicrophoneInput();
    using var recognizer = new (config, audioConfig);

    var result = await recognizer.RecognizeOnceAsync();
    if (result.Reason == ResultReason.TranslatedSpeech)
```

Box 1: {"fr", "de", "es"}

A common task of speech translation is to specify target translation languages, at least one is required but multiples are supported. The following code snippet sets both French and German as translation language targets.



```
static async Task TranslateSpeechAsync() { var translationConfig =  
SpeechTranslationConfig.FromSubscription(SPEECH__SUBSCRIPTION__KEY, SPEECH__SERVICE__REGION);  
  
translationConfig.SpeechRecognitionLanguage = "it-IT";  
  
// Translate to languages. See, https://aka.ms/speech/sttt-languages  
  
translationConfig.AddTargetLanguage("fr");  
  
translationConfig.AddTargetLanguage("de");  
  
}
```

Box 2: TranslationRecognizer

After you've created a SpeechTranslationConfig, the next step is to initialize a TranslationRecognizer.

Example code:

```
static async Task TranslateSpeechAsync()  
{  
  
var translationConfig =  
SpeechTranslationConfig.FromSubscription(SPEECH__SUBSCRIPTION__KEY, SPEECH__SERVICE__REGION);  
  
var fromLanguage = "en-US";  
  
var toLanguages = new List { "it", "fr", "de" };  
  
translationConfig.SpeechRecognitionLanguage = fromLanguage;  
  
toLanguages.ForEach(translationConfig.AddTargetLanguage);  
  
using var recognizer = new TranslationRecognizer(translationConfig); }
```

QUESTION 4

You develop an application to identify species of flowers by training a Custom Vision model.

You receive images of new flower species.

You need to add the new images to the classifier.

Solution: You add the new images and labels to the existing model. You retrain the model, and then publish the model.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A



The model needs to be extended and retrained.

QUESTION 5

HOTSPOT

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(nameof(UserProfile));
```

```
var conversationStateAccessors = _conversationState.CreateProperty(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.

Hot Area:

Answer Area

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

Correct Answer:



Answer Area

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

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.

Reference:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-v4-state>

QUESTION 6

DRAG DROP

You are developing a photo application that will find photos of a person based on a sample image by using the Face API.

You need to create a POST request to find the photos.

How should you complete the request? To answer, drag the appropriate values to the correct targets. Each value 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.

Select and Place:



Values

detect
findsimilars
group
identify
matchFace
matchPerson
verify

Answer Area

POST {Endpoint}/face/v1.0/
Request Body

```
{  
  "faceId": "c5c24a82-6845-4031-9d5d-978df9175426",  
  "largeFaceListId": "sample_list",  
  "largeFaceListId": "sample_list",  
  "maxNumOfCandidatesReturned": 10,  
  "mode": "  
}
```

Correct Answer:

Values

findsimilars
group
identify
matchFace

verify

Answer Area

POST {Endpoint}/face/v1.0/ detect
Request Body

```
{  
  "faceId": "c5c24a82-6845-4031-9d5d-978df9175426",  
  "largeFaceListId": "sample_list",  
  "largeFaceListId": "sample_list",  
  "maxNumOfCandidatesReturned": 10,  
  "mode": " matchPerson "  
}
```

Box 1: detect

Face - Detect With Url: Detect human faces in an image, return face rectangles, and optionally with faceIds, landmarks, and attributes.

POST {Endpoint}/face/v1.0/detect

Box 2: matchPerson

Find similar has two working modes, "matchPerson" and "matchFace". "matchPerson" is the default mode that it tries to find faces of the same person as possible by using internal same-person thresholds. It is useful to find a known person's

other photos. Note that an empty list will be returned if no faces pass the internal thresholds. "matchFace" mode ignores same-person thresholds and returns ranked similar faces anyway, even the similarity is low. It can be used in the cases

like searching celebrity-looking faces.

Reference:

<https://docs.microsoft.com/en-us/rest/api/faceapi/face/detectwithurl>

<https://docs.microsoft.com/en-us/rest/api/faceapi/face/findsimilar>



QUESTION 7

HOTSPOT

You are developing the shopping on-the-go project.

You are configuring access to the QnA Maker resources.

Which role should you assign to AllUsers and LeadershipTeam? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

AllUsers:

	▼
Cognitive Service User	
Contributor	
Owner	
QnA Maker Editor	
QnA Maker Read	

LeadershipTeam:

	▼
Cognitive Service User	
Contributor	
Owner	
QnA Maker Editor	
QnA Maker Read	

Correct Answer:



Answer Area

AllUsers:

▼
Cognitive Service User
Contributor
Owner
QnA Maker Editor
QnA Maker Read

LeadershipTeam:

▼
Cognitive Service User
Contributor
Owner
QnA Maker Editor
QnA Maker Read

Box 1: QnA Maker Editor

Scenario: Provide all employees with the ability to edit QandAs.

The QnA Maker Editor (read/write) has the following permissions:

Create KB API

Update KB API

Replace KB API

Replace Alterations

"Train API" [in new service model v5]

Box 2: Contributor

Scenario: Only senior managers must be able to publish updates.

Contributor permission: All except ability to add new members to roles

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/reference-role-based-access-control>



QUESTION 8

You are building a multilingual chatbot.

You need to send a different answer for positive and negative messages.

Which two Text Analytics APIs should you use? Each correct answer presents part of the solution. (Choose two.)

NOTE: Each correct selection is worth one point.

- A. Linked entities from a well-known knowledge base
- B. Sentiment Analysis
- C. Key Phrases
- D. Detect Language
- E. Named Entity Recognition

Correct Answer: BD

B: The Text Analytics API's Sentiment Analysis feature provides two ways for detecting positive and negative sentiment. If you send a Sentiment Analysis request, the API will return sentiment labels (such as "negative", "neutral" and "positive") and confidence scores at the sentence and document-level.

D: The Language Detection feature of the Azure Text Analytics REST API evaluates text input for each document and returns language identifiers with a score that indicates the strength of the analysis.

This capability is useful for content stores that collect arbitrary text, where language is unknown.

Reference: <https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-sentiment-analysis?tabs=version-3-1>

<https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-language-detection>

QUESTION 9

DRAG DROP

You are building a retail chatbot that will use a QnA Maker service.

You upload an internal support document to train the model. The document contains the following question: "What is your warranty period?"

Users report that the chatbot returns the default QnA Maker answer when they ask the following question: "How long is the warranty coverage?"

The chatbot returns the correct answer when the users ask the following question: "What is your warranty period?"

Both questions should return the same answer.



You need to increase the accuracy of the chatbot responses.

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. (Choose three.)

Select and Place:

Actions

Answer Area

Add a new question and answer (QnA) pair.
Retrain the model.
Add additional questions to the document.
Republish the model.
Add alternative phrasing to the question and answer (QnA) pair.

Correct Answer:

Actions

Answer Area

Add a new question and answer (QnA) pair.
Add additional questions to the document.

Add alternative phrasing to the question and answer (QnA) pair.
Retrain the model.
Republish the model.

Step 1: Add alternative phrasing to the question and answer (QnA) pair.

Add alternate questions to an existing QnA pair to improve the likelihood of a match to a user query.

Step 2: Retrain the model.

Periodically select Save and train after making edits to avoid losing changes.

Step 3: Republish the model

Note: A knowledge base consists of question and answer (QnA) pairs. Each pair has one answer and a pair contains all the information associated with that answer.



Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/edit-knowledge-base>

QUESTION 10

HOTSPOT

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.

Hot Area:

Answer Area

<div>▼</div> <div>api.cognitive.microsofttranslator.com</div> <div>api-nam.cognitive.microsofttranslator.com</div> <div>westus.tts.speech.microsoft.com</div> <div>wwics.cognitiveservices.azure.com/translator</div>	<div>▼</div> <div>/detect</div> <div>/languages</div> <div>/text-to-speech</div> <div>/translate</div>	?api-version=3.0&to=es&to=pt
---	--	------------------------------

Correct Answer:

Answer Area

<div>▼</div> <div>api.cognitive.microsofttranslator.com</div> <div>api-nam.cognitive.microsofttranslator.com</div> <div>westus.tts.speech.microsoft.com</div> <div>wwics.cognitiveservices.azure.com/translator</div>	<div>▼</div> <div>/detect</div> <div>/languages</div> <div>/text-to-speech</div> <div>/translate</div>	?api-version=3.0&to=es&to=pt
---	--	------------------------------

Box 1: api.cognitive.microsofttranslator.com Translator 3.0: Translate. Send a POST request to:
<https://api.cognitive.microsofttranslator.com/translate?api-version=3.0>

Box 2: /translate Reference: <https://docs.microsoft.com/en-us/azure/cognitive-services/translator/reference/v3-0-translate>

QUESTION 11

You are developing a new sales system that will process the video and text from a public-facing website.

You plan to monitor the sales system to ensure that it provides equitable results regardless of the user's location or background.



Which two responsible AI principles provide guidance to meet the monitoring requirements? Each correct answer presents part of the solution. (Choose two.)

NOTE: Each correct selection is worth one point.

- A. transparency
- B. fairness
- C. inclusiveness
- D. reliability and safety
- E. privacy and security

Correct Answer: BD

AI systems should treat all people fairly.

AI systems should perform reliably and safely.

Reference:

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/responsible-ai>

QUESTION 12

DRAG DROP

You have 100 chatbots that each has its own Language Understanding model.

Frequently, you must add the same phrases to each model.

You need to programmatically update the Language Understanding models to include the new phrases.

How should you complete the code? To answer, drag the appropriate values to the correct targets. Each value 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.

Select and Place:

Values

AddPhraseListAsync
Phraselist
PhraselistCreateObject
Phrases
SavePhraselistAsync
UploadPhraseListAsync

Answer Area

```
var phraselistId = await client.Features. [ ]  
(appId, versionId, new [ ]  
{  
    EnabledForAllModels = false,  
    IsExchangeable = true,  
    Name = "PL1",  
    Phrases = "item1,item2,item3,item4,item5"  
});
```

Correct Answer:



Values

Phraselist
Phrases
SavePhraselistAsync
UploadPhraselistAsync

Answer Area

```
var phraselistId = await client.Features. AddPhraseListAsync  
(appId, versionId, new PhraselistCreateObject  
{  
    EnabledForAllModels = false,  
    IsExchangeable = true,  
    Name = "PL1",  
    Phrases = "item1,item2,item3,item4,item5"  
});
```

Box 1: AddPhraseListAsync Example: Add phraselist feature

```
var phraselistId = await client.Features.AddPhraseListAsync(appId, versionId, new PhraselistCreateObject
```

```
{ EnabledForAllModels = false, IsExchangeable = true, Name = "QuantityPhraselist", Phrases = "few,more,extra"  
});
```

Box 2: PhraselistCreateObject

Reference: <https://docs.microsoft.com/en-us/azure/cognitive-services/luis/client-libraries-rest-api>

QUESTION 13

You build a language model by using a Language Understanding service. The language model is used to search for information on a contact list by using an intent named FindContact.

A conversational expert provides you with the following list of phrases to use for training.

Find contacts in London.

Who do I know in Seattle?

Search for contacts in Ukraine.

You need to implement the phrase list in Language Understanding.

Solution: You create a new entity for the domain.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead use a new intent for location.

Note: An intent represents a task or action the user wants to perform. It is a purpose or goal expressed in a user's utterance.

Define a set of intents that corresponds to actions users want to take in your application.



Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-intent>

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