

Microsoft

Exam Questions AI-102

Designing and Implementing an Azure AI Solution



NEW QUESTION 1

- (Exam Topic 1)

You are planning the product creation project.

You need to recommend a process for analyzing videos.

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.)

Actions

Answer Area

- Index the video by using the Video Indexer API.
- Upload the video to blob storage.
- Analyze the video by using the Computer Vision API.
- Extract the transcript from Microsoft Stream.
- Send the transcript to the Language Understanding API as an utterance.
- Extract the transcript from the Video Indexer API.
- Translate the transcript by using the Translator API.
- Upload the video to file storage.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Scenario: All videos must have transcripts that are associated to the video and included in product descriptions.

Product descriptions, transcripts, and all text must be available in English, Spanish, and Portuguese. Step 1: Upload the video to blob storage

Given a video or audio file, the file is first dropped into a Blob Storage. T Step 2: Index the video by using the Video Indexer API.

When a video is indexed, Video Indexer produces the JSON content that contains details of the specified video insights. The insights include: transcripts, OCRs, faces, topics, blocks, etc.

Step 3: Extract the transcript from the Video Indexer API. Step 4: Translate the transcript by using the Translator API. Reference:

<https://azure.microsoft.com/en-us/blog/get-video-insights-in-even-more-languages/> <https://docs.microsoft.com/en-us/azure/media-services/video-indexer/video-indexer-output-json-v2>

NEW QUESTION 2

- (Exam 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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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>

NEW QUESTION 3

- (Exam Topic 1)

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.

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: QnA Maker Editor

Scenario: Provide all employees with the ability to edit Q&As. 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>

NEW QUESTION 4

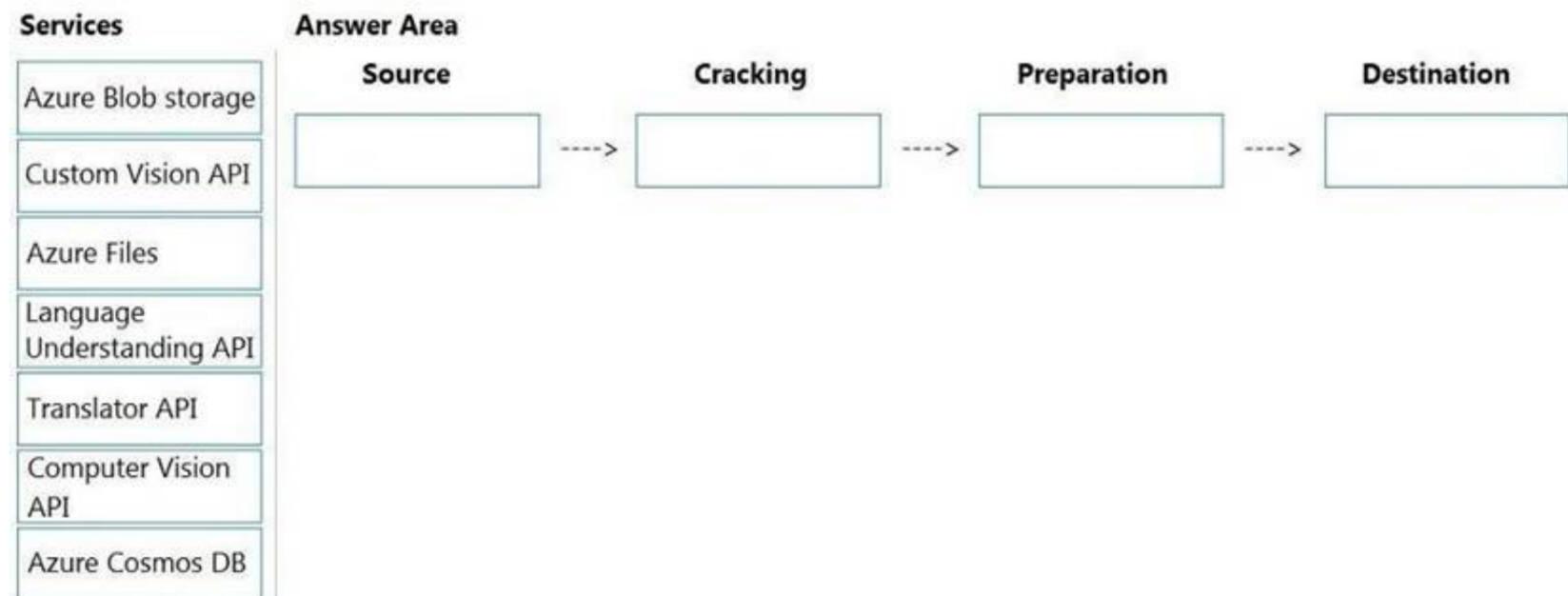
- (Exam Topic 1)

You are developing the smart e-commerce project.

You need to design the skillset to include the contents of PDFs in searches.

How should you complete the skillset design diagram? To answer, drag the appropriate services to the correct stages. Each service 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.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Azure Blob storage

At the start of the pipeline, you have unstructured text or non-text content (such as images, scanned documents, or JPEG files). Data must exist in an Azure data storage service that can be accessed by an indexer.

Box 2: Computer Vision API

Scenario: Provide users with the ability to search insight gained from the images, manuals, and videos associated with the products.

The Computer Vision Read API is Azure's latest OCR technology (learn what's new) that extracts printed text (in several languages), handwritten text (English only), digits, and currency symbols from images and multi-page PDF documents.

Box 3: Translator API

Scenario: Product descriptions, transcripts, and all text must be available in English, Spanish, and Portuguese. Box 4: Azure Files

Scenario: Store all raw insight data that was generated, so the data can be processed later. Reference:

<https://docs.microsoft.com/en-us/azure/search/cognitive-search-concept-intro> <https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-ocr>

NEW QUESTION 5

- (Exam Topic 2)

You have the following C# method for creating Azure Cognitive Services resources programmatically.

```
static void create_resource(CognitiveServicesManagementClient client, string
resource_name, string kind, string account_tier, string location)
{
    CognitiveServicesAccount parameters =
        new CognitiveServicesAccount(null, null, kind, location, resource_name,
new CognitiveServicesAccountProperties(), new Sku(account_tier));
    var result = client.Accounts.Create(resource_group_name, account_tier,
parameters);
}
```

You need to call the method to create a free Azure resource in the West US Azure region. The resource will be used to generate captions of images automatically. Which code should you use?

- A. create_resource(client, "res1", "ComputerVision", "F0", "westus")
- B. create_resource(client, "res1", "CustomVision.Prediction", "F0", "westus")
- C. create_resource(client, "res1", "ComputerVision", "S0", "westus")
- D. create_resource(client, "res1", "CustomVision.Prediction", "S0", "westus")

Answer: B

Explanation:

Many of the Cognitive Services have a free tier you can use to try the service. To use the free tier, use F0 as the SKU for your resource.

There are two tiers of keys for the Custom Vision service. You can sign up for a F0 (free) or S0 (standard) subscription through the Azure portal.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/cognitive-services-apis-create-account-client-library?> <https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/limits-and-quotas>

NEW QUESTION 6

- (Exam Topic 2)

You are developing an application to recognize employees' faces by using the Face Recognition API. Images of the faces will be accessible from a URI endpoint. The application has the following code.

```
static async void AddFace(string subscription_key, string personGroupId, string personId, string imageURI)
{
    var client = new HttpClient();
    client.DefaultRequestHeaders.Add("Ocp-Apim-Subscription-Key", subscription_key);
    var endpointURI = $"https://westus.api.cognitive.microsoft.com/face/v1.0/persongroups/{personGroupId}/persons/{personId}/persistedFaces";
    HttpResponseMessage response;
    var body = "{ \"url\": \"" + imageURI + "\"}";
    var content = new StringContent(body, Encoding.UTF8, "application/json");
    var response = await client.PutAsync(endpointURI, content);
}
```

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 add a face image to a person object in a person group.	<input type="radio"/>	<input type="radio"/>
The code will work for a group of 10,000 people.	<input type="radio"/>	<input type="radio"/>
AddFace can be called multiple times to add multiple face images to a person object.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Reference:

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

NEW QUESTION 7

- (Exam Topic 2)

You are creating an enrichment pipeline that will use Azure Cognitive Search. The knowledge store contains unstructured JSON data and scanned PDF documents that contain text.

Which projection type should you use for each data type? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

JSON data:	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>File projection</p> <p>Object projection</p> <p>Table projection</p> </div> </div>
Scanned data:	<div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>File projection</p> <p>Object projection</p> <p>Table projection</p> </div> </div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Object projection

Object projections are JSON representations of the enrichment tree that can be sourced from any node. Box 2: File projection

File projections are similar to object projections and only act on the normalized_images collection. Reference:

<https://docs.microsoft.com/en-us/azure/search/knowledge-store-projection-overview>

NEW QUESTION 8

- (Exam Topic 2)

Your company wants to reduce how long it takes for employees to log receipts in expense reports. All the receipts are in English.

You need to extract top-level information from the receipts, such as the vendor and the transaction total. The solution must minimize development effort.

Which Azure Cognitive Services service should you use?

- A. Custom Vision
- B. Personalizer
- C. Form Recognizer
- D. Computer Vision

Answer: C

Explanation:

Azure Form Recognizer is a cognitive service that lets you build automated data processing software using machine learning technology. Identify and extract text, key/value pairs, selection marks, tables, and structure from your documents—the service outputs structured data that includes the relationships in the original file, bounding boxes, confidence and more.

Form Recognizer is composed of custom document processing models, prebuilt models for invoices, receipts, IDs and business cards, and the layout model.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/form-recognizer>

NEW QUESTION 9

- (Exam Topic 2)

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 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 then use the Smart Labeler tool. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

The model need to be extended and retrained.

Note: Smart Labeler to generate suggested tags for images. This lets you label a large number of images more quickly when training a Custom Vision model.

NEW QUESTION 10

- (Exam Topic 2)

You have a Video Indexer service that is used to provide a search interface over company videos on your company's website.

You need to be able to search for videos based on who is present in the video. What should you do?

- A. Create a person model and associate the model to the videos.
- B. Create person objects and provide face images for each object.
- C. Invite the entire staff of the company to Video Indexer.
- D. Edit the faces in the videos.
- E. Upload names to a language model.

Answer: A

Explanation:

Video Indexer supports multiple Person models per account. Once a model is created, you can use it by providing the model ID of a specific Person model when uploading/indexing or reindexing a video. Training a new face for a video updates the specific custom model that the video was associated with.

Note: Video Indexer supports face detection and celebrity recognition for video content. The celebrity recognition feature covers about one million faces based on commonly requested data source such as IMDB, Wikipedia, and top LinkedIn influencers. Faces that aren't recognized by the celebrity recognition feature are detected but left unnamed. Once you label a face with a name, the face and name get added to your account's Person model. Video Indexer will then recognize this face in your future videos and past videos.

Reference:

<https://docs.microsoft.com/en-us/azure/media-services/video-indexer/customize-person-model-with-api>

NEW QUESTION 10

- (Exam Topic 2)

You are building a bot on a local computer by using the Microsoft Bot Framework. The bot will use an existing Language Understanding model.

You need to translate the Language Understanding model locally by using the Bot Framework CLI. What should you do first?

- A. From the Language Understanding portal, clone the model.
- B. Export the model as an .lu file.
- C. Create a new Speech service.
- D. Create a new Language Understanding service.

Answer: B

Explanation:

You might want to manage the translation and localization for the language understanding content for your bot independently.

Translate command in the @microsoft/bf-lu library takes advantage of the Microsoft text translation API to automatically machine translate .lu files to one or more than 60+ languages supported by the Microsoft text translation cognitive service.

What is translated?

An .lu file and optionally translate Comments in the lu file LU reference link texts

List of .lu files under a specific path. Reference:

<https://github.com/microsoft/botframework-cli/blob/main/packages/luis/docs/translate-command.md>

NEW QUESTION 12

- (Exam Topic 2)

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 ReadFileUrl(ComputerVisionClient client, string urlFile)
{
    const int numberOfCharsInOperationId = 36;

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

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

Answer: BD

Explanation:

Example code : do

```
{
results = await client.GetReadResultAsync(Guid.Parse(operationId));
}
while ((results.Status == OperationStatusCodes.Running || results.Status == OperationStatusCodes.NotStarted)); Reference:
https://github.com/Azure-Samples/cognitive-services-quickstart-code/blob/master/dotnet/ComputerVision/Comp
```

NEW QUESTION 13

- (Exam Topic 2)

You plan to provision a QnA Maker service in a new resource group named RG1. In RG1, you create an App Service plan named AP1. Which two Azure resources are automatically created in RG1 when you provision the QnA Maker service? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Language Understanding
- B. Azure SQL Database
- C. Azure Storage
- D. Azure Cognitive Search
- E. Azure App Service

Answer: DE

Explanation:

Reference:
<https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/set-up-qnamaker-service-azure?tabs>

NEW QUESTION 16

- (Exam Topic 2)

You plan to deploy a containerized version of an Azure Cognitive Services service that will be used for text analysis. You configure <https://contoso.cognitiveservices.azure.com> as the endpoint URI for the service, and you pull the latest version of the Text Analytics Sentiment Analysis container. You need to run the container on an Azure virtual machine by using Docker. How should you complete the command? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
docker run --rm -it -p 5000:5000 --memory 8g --cpus 1 \
```

<pre>http://contoso.blob.core.windows.net</pre>
<pre>https://contoso.cognitiveservices.azure.com</pre>
<pre>mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase</pre>
<pre>mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment</pre>

```
Eula=accept \
```

```
Billing=
```

<pre>http://contoso.blob.core.windows.net</pre>
<pre>https://contoso.cognitiveservices.azure.com</pre>
<pre>mcr.microsoft.com/azure-cognitive-services/textanalytics/keyphrase</pre>
<pre>mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment</pre>

```
ApiKey=xxxxxxxxxxxxxxxxxxxx
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment
To run the Sentiment Analysis v3 container, execute the following docker run command. docker run --rm -it -p 5000:5000 --memory 8g --cpus 1 \ mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment \ Eula=accept \ Billing={ENDPOINT_URI} \ ApiKey={API_KEY} is the endpoint for accessing the Text Analytics API. <https://<your-custom-subdomain>.cognitiveservices.azure.com>
Box 2: <https://contoso.cognitiveservices.azure.com>
{ENDPOINT_URI} is the endpoint for accessing the Text Analytics API:
<https://<your-custom-subdomain>.cognitiveservices.azure.com>
Reference:
<https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-install-co>

NEW QUESTION 19

- (Exam Topic 2)

You develop a test method to verify the results retrieved from a call to the Computer Vision API. The call is used to analyze the existence of company logos in images. The call returns a collection of brands named brands.

You have the following code segment.

```
foreach (var brand in brands)
{
    if (brand.Confidence >= .75)
        Console.WriteLine($"Logo of {brand.Name} between {brand.Rectangle.X},
{brand.Rectangle.Y} and {brand.Rectangle.W}, {brand.Rectangle.H}");
}
```

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 return the name of each detected brand with a confidence equal to or higher than 75 percent.	<input type="radio"/>	<input type="radio"/>
The code will return coordinates for the bottom-left corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input type="radio"/>
The code will return coordinates for the bottom-right corner of the rectangle that contains the brand logo of the displayed brands.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

Box 2: Yes

If several logs are detected, or the logo image and the stylized brand name are detected as two separate logos, it starts numbering them from the bottom-left corner.

Box 3: No Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-brand-detection>

NEW QUESTION 23

- (Exam Topic 2)

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 `docker run` script.
- Push the image to an Azure container registry.
- Build the image.
- Push the image to Docker Hub.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Pull the Anomaly Detector container image.

Step 2: Create a custom Dockerfile

Step 3: Push the image to an Azure container registry.
 To push an image to an Azure Container registry, you must first have an image.
 Step 4: Distribute the docker run script
 Use the docker run command to run the containers. Reference:
<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-intro>

NEW QUESTION 25

- (Exam Topic 2)
 You build a conversational bot named bot1.
 You need to configure the bot to use a QnA Maker application.
 From the Azure Portal, where can you find the information required by bot1 to connect to the QnA Maker application?

- A. Access control (IAM)
- B. Properties
- C. Keys and Endpoint
- D. Identity

Answer: C

Explanation:

Obtain values to connect your bot to the knowledge base
 * 1. In the QnA Maker site, select your knowledge base.
 * 2. With your knowledge base open, select the SETTINGS tab. Record the value shown for service name. This value is useful for finding your knowledge base of interest when using the QnA Maker portal interface. It's not used to connect your bot app to this knowledge base.
 * 3. Scroll down to find Deployment details and record the following values from the Postman sample HTTP request:
 * 4. POST /knowledgebases/<knowledge-base-id>/generateAnswer
 * 5.Host: <your-host-url>
 * 6. Authorization: EndpointKey <your-endpoint-key> Reference:
<https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-qna>

NEW QUESTION 30

- (Exam Topic 2)
 You are developing a new sales system that will process the video and text from a public-facing website. You plan to notify users that their data has been processed by the sales system.
 Which responsible AI principle does this help meet?

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

Answer: D

Explanation:

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

NEW QUESTION 35

- (Exam Topic 2)
 You are developing an internet-based training solution for remote learners.
 Your company identifies that during the training, some learners leave their desk for long periods or become distracted.
 You need to use a video and audio feed from each learner's computer to detect whether the learner is present and paying attention. The solution must minimize development effort and identify each learner.
 Which Azure Cognitive Services service should you use for each requirement? To answer, select the appropriate options in the answer area.
 NOTE: Each correct selection is worth one point.

From a learner's video feed, verify whether the learner is present.

Face
Speech
Text Analytics

From a learner's facial expression in the video feed, verify whether the learner is paying attention.

Face
Speech
Text Analytics

From a learner's audio feed, detect whether the learner is talking.

Face
Speech
Text Analytics

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application, email Description automatically generated

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/what-are-cognitive-services>

NEW QUESTION 37

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