Microsoft

Exam Questions AI-102

Designing and Implementing an Azure AI Solution

NEW QUESTION 1
- (Exam Topic 1)
You need to develop code to upload images for the product creation project. The solution must meet the accessibility requirements.
How should you complete the code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

```
public static async Task<string> SuggestAltText(ComputerVisionClient client,  ▼  image)
{                                                                    Dictionary
                                                                     stream
    List<VisualFeatureTypes?> features = new List<VisualFeatureTypes?>()  string
    {
        ┌──────────────────────────────▼─┐
        │ VisualFeatureTypes.Description  │
        │ VisualFeatureTypes.ImageType    │
        │ VisualFeatureTypes.Objects      │
        │ VisualFeatureTypes.Tags         │
        └─────────────────────────────────┘
    };
    ImageAnalysis results = await client.AnalyzeImageAsync(image, features);

    ┌──────────────────────────────────────▼─┐
    │ var c = results.Brands.DetectedBrands[0]  │
    │ var c = results.Description.Captions[0]    │
    │ var c = results.Metadata[0]                │
    │ var c = results.Objects[0]                 │
    └─────────────────────────────────────────┘

    if(c.Confidence>0.5) return(c.Text);

}
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application, email Description automatically generated
Reference:
https://github.com/Azure-Samples/cognitive-services-dotnet-sdk-samples/blob/master/documentation-samples/q

NEW QUESTION 2
- (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.

Services			
Azure Blob storage			
Custom Vision API			
Azure Files			
Language Understanding API			
Translator API			
Computer Vision API			
Azure Cosmos DB			

Answer Area

Source	Cracking	Preparation	Destination
☐ ---->	☐ ---->	☐ ---->	☐

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
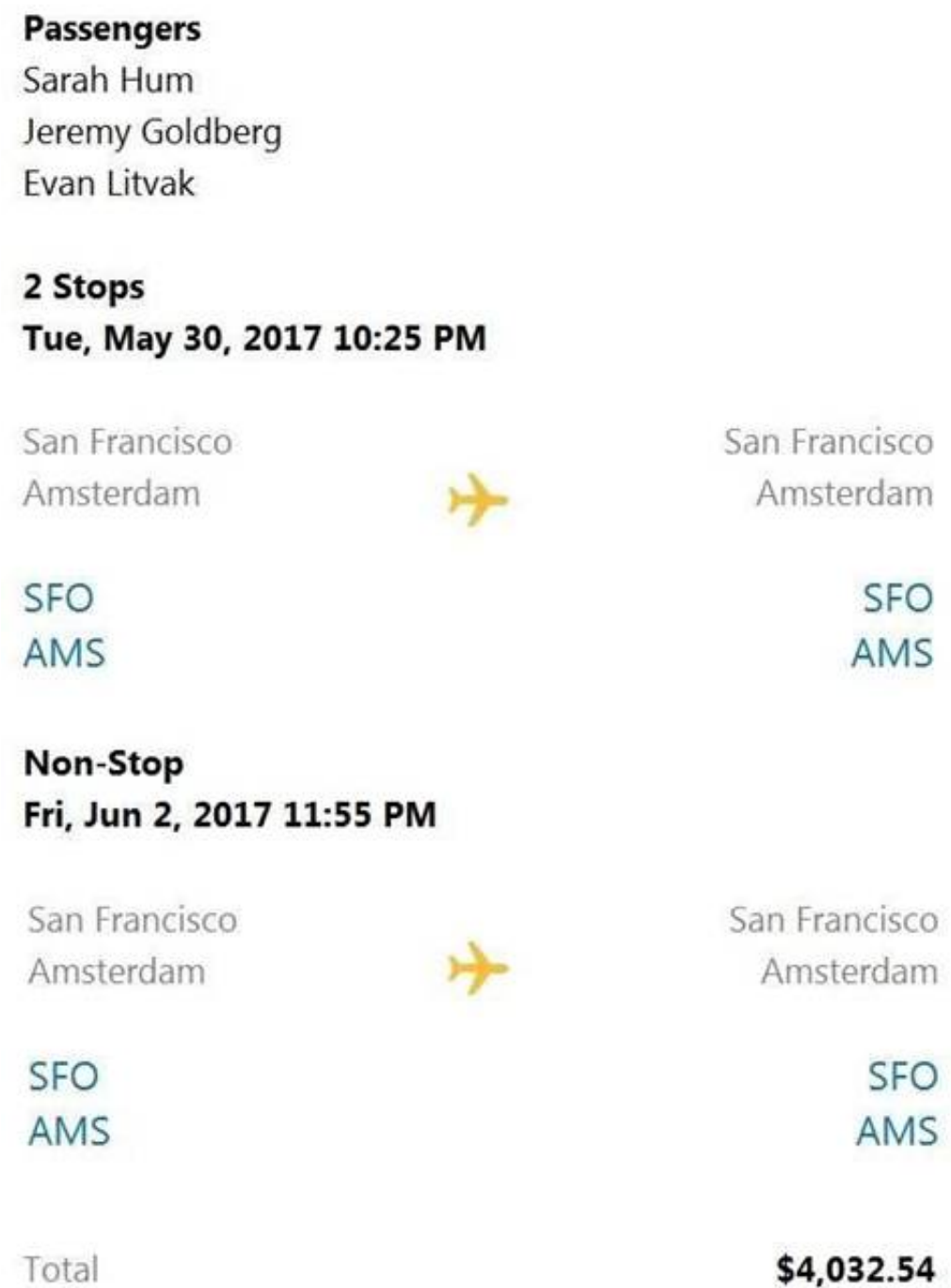Scenario: Store all raw insight data that was generated, so the data can be processed later. Reference:
https://docs.microsoft.com/en-us/azure/search/cognitive-search-concept-intro https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview-ocr

NEW QUESTION 3
- (Exam Topic 2)
You are building a chatbot that will provide information to users as shown in the following exhibit.

Passengers
Sarah Hum
Jeremy Goldberg
Evan Litvak

2 Stops
Tue, May 30, 2017 10:25 PM

San Francisco		San Francisco
Amsterdam	✈	Amsterdam
SFO		SFO
AMS		AMS

Non-Stop
Fri, Jun 2, 2017 11:55 PM

San Francisco		San Francisco
Amsterdam	✈	Amsterdam
SFO		SFO
AMS		AMS

| Total | $4,032.54 |

Use the drop-down menus to 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

The chatbot is showing **[answer choice]**.

| an Adaptive Card |
| a Hero Card |
| a Thumbnail Card |

The card includes **[answer choice]**.

| an action set |
| an image |
| an image group |
| media |

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: A Thumbnail card
A Thumbnail card typically contains a single thumbnail image, some short text, and one or more buttons. Reference:
https://docs.microsoft.com/en-us/microsoftteams/platform/task-modules-and-cards/cards/cards-reference

NEW QUESTION 4
- (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 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 intent for location.
Does this meet the goal?

A. Yes
B. No

Answer: A

Explanation:
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

NEW QUESTION 5
- (Exam Topic 2)
You are developing a solution to generate a word cloud based on the reviews of a company's products. Which Text Analytics REST API endpoint should you use?

A. IceyPhrases
B. sentiment
C. languages
D. entities/recognition/general

Answer: A

Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/overview

NEW QUESTION 6
- (Exam Topic 2)
You successfully run the following HTTP request. POST
https://management.azure.com/subscriptions/18c51a87-3a69-47a8-aedc-a54745f708a1/resourceGroups/RG1/pro
Body{"keyName": "Key2"} What is the result of the request?

A. A key for Azure Cognitive Services was generated in Azure Key Vault.
B. A new query key was generated.
C. The primary subscription key and the secondary subscription key were rotated.
D. The secondary subscription key was reset.

Answer: B

Explanation:
Accounts - Regenerate Key regenerates the specified account key for the specified Cognitive Services account. Syntax:
POST https://management.azure.com/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/
providers/Microsoft.CognitiveServices/accounts/{accountName}/regenerateKey?api-version=2017-04-18
Reference:
https://docs.microsoft.com/en-us/rest/api/cognitiveservices/accountmanagement/accounts/regeneratekey

NEW QUESTION 7
- (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 8
- (Exam Topic 2)
You plan to perform predictive maintenance.
You collect IoT sensor data from 100 industrial machines for a year. Each machine has 50 different sensors that generate data at one-minute intervals. In total, you have 5,000 time series datasets.
You need to identify unusual values in each time series to help predict machinery failures.
Which Azure Cognitive Services service should you use?

A. Anomaly Detector
B. Cognitive Search
C. Form Recognizer
D. Custom Vision

Answer: A

NEW QUESTION 9
- (Exam Topic 2)
You are using a Language Understanding service to handle natural language input from the users of a web-based customer agent.
The users report that the agent frequently responds with the following generic response: "Sorry, I don't understand that."
You need to improve the ability of the agent to respond to requests.
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.)

Actions

| Add prebuilt domain models as required. |
| Validate the utterances logged for review and modify the model. |
| Migrate authoring to an Azure resource authoring key. |
| Enable active learning. |
| Enable log collection by using Log Analytics. |
| Train and republish the Language Understanding model. |

Answer Area

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Step 1: Add prebuilt domain models as required.
Prebuilt models provide domains, intents, utterances, and entities. You can start your app with a prebuilt model or add a relevant model to your app later.
Note: Language Understanding (LUIS) provides prebuilt domains, which are pre-trained models of intents and entities that work together for domains or common categories of client applications.
The prebuilt domains are trained and ready to add to your LUIS app. The intents and entities of a prebuilt domain are fully customizable once you've added them to your app.
Step 2: Enable active learning
To enable active learning, you must log user queries. This is accomplished by calling the endpoint query with the log=true querystring parameter and value.
Step 3: Train and republish the Language Understanding model
The process of reviewing endpoint utterances for correct predictions is called Active learning. Active learning captures endpoint queries and selects user's endpoint utterances that it is unsure of. You review these utterances to select the intent and mark entities for these real-world utterances. Accept these changes into your example utterances then train and publish. LUIS then identifies utterances more accurately.
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-how-to-review-endpoint-utterances#log-user- https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-concept-prebuilt-model

NEW QUESTION 10
- (Exam Topic 2)
You are building a natural language model. You need to enable active learning.
What should you do?

A. Add show-all-intents=true to the prediction endpoint query.
B. Enable speech priming.
C. Add log=true to the prediction endpoint query.
D. Enable sentiment analysis.

Answer: C

Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-how-to-review-endpoint-utterances#log-user

NEW QUESTION 10
- (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 = 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. 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 12
- (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 15
- (Exam Topic 2)
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

Answer: BD

Explanation:
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-tosentiment-analysis?tabs=version-3-1
https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to- language-detection

NEW QUESTION 20
- (Exam Topic 2)
You plan to use a Language Understanding application named app1 that is deployed to a container. App1 was developed by using a Language Understanding authoring resource named lu1.
App1 has the versions shown in the following table.

Version	Trained date	Published date
V1.2	None	None
V1.1	2020-10-01	None
V1.0	2020-09-01	2020-09-15

You need to create a container that uses the latest deployable version of app1.
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.)

Actions

Run a container that has `version` set as an environment variable.

Export the model by using the Export as JSON option.

Select v1.1 of app1.

Run a container and mount the model file.

Select v1.0 of app1.

Export the model by using the Export for containers (GZIP) option.

Select v1.2 of app1.

Answer Area

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Step 1: Export the model using the Export for containers (GZIP) option. Export versioned app's package from LUIS portal
The versioned app's package is available from the Versions list page.

> Sign on to the LUIS portal.

> Select the app in the list.

> Select Manage in the app's navigation bar.

> Select Versions in the left navigation bar.

> Select the checkbox to the left of the version name in the list.

> Select the Export item from the contextual toolbar above the list.

> Select Export for container (GZIP).

> The package is downloaded from the browser.

Step 2: Select v1.1 of app1.
A trained or published app packaged as a mounted input to the container with its associated App ID. Step 3: Run a contain and mount the model file.
Run the container, with the required input mount and billing settings. Reference:
https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-container-howto

NEW QUESTION 22
- (Exam Topic 2)
You deploy a web app that is used as a management portal for indexing in Azure Cognitive Search. The app is configured to use the primary admin key.
During a security review, you discover unauthorized changes to the search index. You suspect that the primary access key is compromised.
You need to prevent unauthorized access to the index management endpoint. The solution must minimize downtime.
What should you do next?

A. Regenerate the primary admin key, change the app to use the secondary admin key, and then regenerate the secondary admin key.
B. Change the app to use a query key, and then regenerate the primary admin key and the secondary admin key.
C. Regenerate the secondary admin key, change the app to use the secondary admin key, and then regenerate the primary key.
D. Add a new query key, change the app to use the new query key, and then delete all the unused query keys.

Answer: A

Explanation:
 Regenerate admin keys.
Two admin keys are created for each service so that you can rotate a primary key, using the secondary key for business continuity.
* 1. In the Settings >Keys page, copy the secondary key.
* 2. For all applications, update the API key settings to use the secondary key.
* 3.Regenerate the primary key.
* 4. Update all applications to use the new primary key.
Note: Two admin api-keys, referred to as primary and secondary keys in the portal, are automatically generated when the service is created and can be individually regenerated on demand. Having two keys allows you to roll over one key while using the second key for continued access to the service.
Reference:
https://docs.microsoft.com/en-us/azure/search/search-security-api-keys#regenerate-admin-keys

NEW QUESTION 27
- (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 31
- (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 labels to the existing model. You retrain the model, and then publish the model.
Does this meet the goal?

A. Yes
B. No

Answer: A

Explanation:
The model needs to be extended and retrained.

NEW QUESTION 35

......

Thank You for Trying Our Product

We offer two products:

1st - We have Practice Tests Software with Actual Exam Questions

2nd - Questons and Answers in PDF Format

AI-102 Practice Exam Features:

* AI-102 Questions and Answers Updated Frequently

* AI-102 Practice Questions Verified by Expert Senior Certified Staff

* AI-102 Most Realistic Questions that Guarantee you a Pass on Your FirstTry

* AI-102 Practice Test Questions in Multiple Choice Formats and Updatesfor 1 Year

100% Actual & Verified — Instant Download, Please Click
Order The AI-102 Practice Test Here