

AI-102^{Q&As}

Designing and Implementing a Microsoft Azure AI Solution

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QUESTION 1

You have an Azure Cognitive Search solution and a collection of handwritten letters stored as JPEG files.

You plan to index the collection. The solution must ensure that queries can be performed on the contents of the letters.

You need to create an indexer that has a skillset.

Which skill should you include?

- A. image analysis
- B. optical character recognition (OCR)
- C. key phrase extraction
- D. document extraction

Correct Answer: B

To ensure that queries can be performed on the contents of the letters, the skill that should be included in the indexer is optical character recognition (OCR).

Option B, optical character recognition (OCR), is a technology that can recognize text within an image and convert it into machine-readable text. This skill will enable the search engine to read the handwritten letters and convert them into searchable text that can be indexed by Azure Cognitive Search.

Option A, image analysis, is a useful skill for analyzing images to extract metadata, but it does not directly enable text recognition.

Option C, key phrase extraction, extracts important phrases and concepts from text, but it requires the text to be already recognized and extracted by OCR or other text extraction techniques.

Option D, document extraction, is a skill that extracts specific pieces of information from documents, but it does not address the challenge of recognizing and extracting text from handwritten letters.

QUESTION 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

Correct Answer: C

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/generateAnswer 5. Host:

6. Authorization: EndpointKey

Reference:

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

QUESTION 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 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 create a new model, and then upload the new images and labels.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

The model needs to be extended and retrained.

QUESTION 4

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 an Azure Cognitive Search service.

During the past 12 months, query volume steadily increased.

You discover that some search query requests to the Cognitive Search service are being throttled.

You need to reduce the likelihood that search query requests are throttled.

Solution: You migrate to a Cognitive Search service that uses a higher tier.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

A simple fix to most throttling issues is to throw more resources at the search service (typically replicas for query-based throttling, or partitions for indexing-based throttling). However, increasing replicas or partitions adds cost, which is why it is important to know the reason why throttling is occurring at all.

Reference: <https://docs.microsoft.com/en-us/azure/search/search-performance-analysis>

QUESTION 5

You have an Azure IoT hub that receives series data from machinery. You need to build an app that will perform the following actions:

1.

Perform anomaly detection across multiple correlated sensors

2.

Identify the root cause of process stops.

3.

Send incident alerts

The solution must minimize development time. Which Azure service should you use?

A. Azure Metrics Advisor

B. Form Recognizer

C. Azure Machine teaming

D. Anomaly Detector

Correct Answer: A

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