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Designing and Implementing a Microsoft Azure AI Solution

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QUESTION 1

You are building a chatbot.

You need to configure the chatbot to query a knowledge base.

Which dialog class should you use?

A. AdaptiveDialog

B. QnAMakerDialog

C. ComponentDialog

D. SkillDialog

Correct Answer: B

QUESTION 2

You are building a bot by using Microsoft Bot Framework.

You need to configure the bot to respond to spoken requests. The solution must minimize development effort.

What should you do?

A. Deploy the bot to Azure and register the bot with a Direct Une Speech channel

B. Integrate the bot with Cortana by using the Bot Framework SDK.

C. Create an Azure function that will call the Speech service and connect the bot to the function.

D. Deploy the bot to Azure and register the bot with a Microsoft Teams channel.

Correct Answer: A

QUESTION 3

DRAG DROP

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 o\\' actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

Change Domains to **General (compact)**.

Retrain the model.

Create a new classification model.

Change the classification type.

Export the model.

Answer Area

Correct Answer:

Actions

Change Domains to **General (compact)**.

Retrain the model.

Answer Area

Create a new classification model.

Change the classification type.

Export the model.

QUESTION 4

You are building a social media extension that will convert text to speech. The solution must meet the following requirements:

1.

Support messages of up to 400 characters.

2.

Provide users with multiple voice options.

3.

Minimize costs.

You create an Azure Cognitive Services resource.

Which Speech API endpoint provides users with the available voice options?

A. https://uksouth.customvoice.apispeech.microsoft.eom/api/texttospeech/v3.0/longaudiosynt hesis/voices

B. https://uksouth.tts.speech.microsoft.conT/cognitiveservices/voices/list

C. https://uksouth.voice.speech.microsoft.com/cognitiveservices/v1?deploymentld = {deploymentld>

D. https://uksouth.api.cognitive.microsoft.eom/speechtotext/v3.0/models/base

Correct Answer: B

QUESTION 5

You need to measure the public perception of your brand on social media by using natural language processing. Which Azure service should you use?

A. Content Moderator

B. Form Recognizer

C. Computer Vision

D. Language service

Correct Answer: D

QUESTION 6

DRAG DROP

You have a web app that uses Azure Cognitive Search.

When reviewing billing for the app, you discover much higher than expected charges. You suspect that the query key is compromised.

You need to prevent unauthorized access to the search endpoint and ensure that users only have read only access to the documents collection. The solution must minimize app downtime.

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.

Select and Place:

Actions	Answer Area
Add a new query key.	
Regenerate the secondary admin key.	
Change the app to use the secondary admin key.	
Change the app to use the new key.	
Regenerate the primary admin key.	
Delete the compromised key.	

Correct Answer:

Actions	Answer Area
	Add a new query key.
Regenerate the secondary admin key.	Change the app to use the new key.
Change the app to use the secondary admin key.	Delete the compromised key.
Regenerate the primary admin key.	

Reference: https://docs.microsoft.com/en-us/azure/search/search-security-api-keys

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QUESTION 7

DRAG DROP

Match the types of workloads to the appropriate scenarios.

To answer, drag the appropriate workload type from the column on the left to its scenario on the right. Each workload type may he used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Workload Types

Batch

Streaming

Answer Area

Workload type

Data for a product catalog will be loaded every 12 hours to a data warehouse.

Workload type

Thousands of data sets per second for online purchases will be loaded into a data warehouse in real time.

Workload type

Updates to inventory data will be loaded to a data warehouse every 1 million transactions.

Correct Answer:

Workload Types

Batch

Streaming

Answer Area

Batch

Data for a product catalog will be loaded every 12 hours to a data warehouse.

Streaming

Thousands of data sets per second for online purchases will be loaded into a data warehouse in real time.

Batch

Updates to inventory data will be loaded to a data warehouse every 1 million transactions.

QUESTION 8

You create five bots by using Microsoft Bot Framework Composer.

You need to make a single bot available to users that combines the bots. The solution must support dynamic routing to the bots based on user input.

Which three actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Create a composer extension.

B. Change the Recognizer/Dispatch type.

C. Create an Orchestrator model.

D. Enable WebSockets.

E. Create a custom recognizer JSON file.

F. Install the Orchestrator package.

Correct Answer: BCF

https://learn.microsoft.com/en-us/composer/how-to-create-orchestrator-bot

QUESTION 9

You have a 20-GB video file named File1.avi that is stored on a local drive.

You need to index File1.avi by using the Azure Video Indexer website.

What should you do first?

A. Upload File1.avi to an Azure Storage queue.

B. Upload File1.avi to the Azure Video Indexer website.

C. Upload File1.avi to Microsoft OneDrive.

D. Upload File1.avi to the www.youtube.com webpage.

Correct Answer: C

Uploading Guidelines:

Uploading files to Video Indexer

Uploading a local file from your device

Supported file formats include: .wmv, .avi, .mov.

The file should be up to 2GB and up to 4 hours.

You can upload up to 10 files at a time.

Uploading an online file

The URL should lead to an online media file (for example a OneDrive file),

not a webpage (like www.youtube.com).

The file should be up to 30GB and up to 4 hours.

You can upload up to 10 files at a time.

QUESTION 10

You are building a chatbot for a travel agent. The bot will ask users for a destination and must repeat the question until a valid input is received, or the user closes the conversation. Which type of dialog should you use?

A. prompt

B. input

C. adaptive

D. QnA Maker

Correct Answer: A

https://learn.microsoft.com/en-us/azure/bot-service/bot-builder-concept-dialog?view=azure-bot-service-4.0#dialog-types
The dialogs library provides a few types of dialogs to make your bot\\'s conversations easier to manage.

-prompt dialogs

Ask the user for input and return the result. A prompt will repeat until it gets valid input or it\\'s canceled. They\\'re designed to work with waterfall dialogs.

QUESTION 11

What should you use to build a Microsoft Power Bi paginated report?

A. Power BI Report Builder

B. Charciculator

C. Power BI Desktop

D. the Power BI service

Correct Answer: A

QUESTION 12

What should you use to automatically delete blobs from Azure Blob Storage?

A. the change feed

B. a lifecycle management policy

C. soft delete

D. archive storage

Correct Answer: D

QUESTION 13

HOTSPOT

You are developing the knowledgebase by using Azure Cognitive Search.

You need to build a skill that will be used by indexers.

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

```
{
        "@odata.type": "#Microsoft.Skills.Text.EntityRecognitionSkill",
        ┌────────────────────────────────────────────────────────────────┐ ▼
        │ "categories": [],                                              │
        │ "categories": [ "Email", "Persons", "Organizations"],          │
        │ "categories": [ "Locations", "Persons", "Organizations"],      │
        └────────────────────────────────────────────────────────────────┘
        "defaultLanguageCode": "en",
        "includeTypelessEntities": true,
        "minimumPrecision": 0.7,
        "inputs": [
          { "name": "text",
            "source": "/document/content"}
        ],
        "outputs": [
          {"name": "persons", "targetName": "people"},
          {"name": "locations", "targetName": "locations"},
          {"name": "organizations", "targetName": "organizations"},
        ┌────────────────────────────────────────────────────────────────┐ ▼
        │ {"name": "entities"}                                           │
        │ {"name": "categories"}                                         │
        │ {"name": "namedEntities"}                                      │
        └────────────────────────────────────────────────────────────────┘
        ]
}
```

Correct Answer:

Answer Area

```
{
    "@odata.type": "#Microsoft.Skills.Text.EntityRecognitionSkill",
    ▼
    "categories": [],
    "categories": [ "Email", "Persons", "Organizations"],
    "categories": [ "Locations", "Persons", "Organizations"],

    "defaultLanguageCode": "en",
    "includeTypelessEntities": true,
    "minimumPrecision": 0.7,
    "inputs": [
        { "name": "text",
          "source": "/document/content"}
    ],
    "outputs": [
        {"name": "persons", "targetName": "people"},
        {"name": "locations", "targetName": "locations"},
        {"name": "organizations", "targetName": "organizations"},
        ▼
        {"name": "entities"}
        {"name": "categories"}
        {"name": "namedEntities"}
    ]
}
```

Box 1: "categories": ["Locations", "Persons", "Organizations"],

Locations, Persons, Organizations are in the outputs.

Scenario: Contoso plans to develop a searchable knowledgebase of all the intellectual property

Note: The categories parameter is an array of categories that should be extracted. Possible category types: "Person", "Location", "Organization", "Quantity", "Datetime", "URL", "Email". If no category is provided, all types are returned.

Box 2: {"name": " entities"}

The include wikis, so should include entities in the outputs.

Note: entities is an array of complex types that contains rich information about the entities extracted from text, with the following fields

name (the actual entity name. This represents a "normalized" form)

wikipediaId

wikipediaLanguage

wikipediaUrl (a link to Wikipedia page for the entity)

etc.

Reference:

https://docs.microsoft.com/en-us/azure/search/cognitive-search-skill-entity-recognition

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