



# AI-102<sup>Q&As</sup>

Designing and Implementing a Microsoft Azure AI Solution

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### QUESTION 1

You are training a Language Understanding model for a user support system.

You create the first intent named GetContactDetails and add 200 examples.

You need to decrease the likelihood of a false positive.

What should you do?

- A. Enable active learning.
- B. Add a machine learned entity.
- C. Add additional examples to the GetContactDetails intent.
- D. Add examples to the None intent.

Correct Answer: D

<https://docs.microsoft.com/en-us/azure/cognitive-services/language-service/conversational-language-understanding/concepts/none-intent#adding-examples-to-the-none-intent>

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### QUESTION 2

You build a Language Understanding model by using the Language Understanding portal. You export the model as a JSON file as shown in the following sample.



```
{
  "text": "average amount of rain by month at chicago last year",
  "intent": "Weather.CheckWeatherValue",
  "entities": [
    {
      "entity": "Weather.WeatherRange",
      "startPos": 0,
      "endPos": 6,
      "children": []
    },
    {
      "entity": "Weather.WeatherCondition",
      "startPos": 18,
      "endPos": 21,
      "children": []
    },
    {
      "entity": "Weather.Historic",
      "startPos": 23,
      "endPos": 30,
      "children": []
    }
  ]
}
```

To what does the Weather.Historic entity correspond in the utterance?

- A. by month
- B. chicago
- C. rain
- D. location

Correct Answer: A

### QUESTION 3

#### 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="checkbox"/>	<input type="checkbox"/>
<code>Greet()</code> is the name of the language generation template.	<input type="checkbox"/>	<input type="checkbox"/>
<code>\${Greeting() }</code> is a reference to a template in the language generation file.	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

### Answer Area

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

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 4

You are building a Language Understanding solution.

You discover that many intents have similar utterances containing airport names or airport codes.

You need to minimize the number of utterances used to train the model.

Which type of custom entity should you use?

- A. Pattern.any
- B. machine-learning
- C. list
- D. regular expression

Correct Answer: C

#### QUESTION 5

HOTSPOT

You run the following command.

```
docker run --rm -it -p 5000:5000 --memory 10g --cpus 2 \  
mcr.microsoft.com/azure-cognitive-services/textanalytics/sentiment\  
Eula=accept \  
Billing={ENDPOINT_URI} \  
ApiKey={API_KEY}
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Hot Area:

### Answer Area

Statements	Yes	No
Going to <code>http://localhost:5000/status</code> will query the Azure endpoint to verify whether the API key used to start the container is valid.	<input type="checkbox"/>	<input type="checkbox"/>
The container logging provider will write log data.	<input type="checkbox"/>	<input type="checkbox"/>
Going to <code>http://localhost:5000/swagger</code> will provide the details to access the documentation for the available endpoints.	<input type="checkbox"/>	<input type="checkbox"/>



Correct Answer:

## Answer Area

Statements	Yes	No
Going to <code>http://localhost:5000/status</code> will query the Azure endpoint to verify whether the API key used to start the container is valid.	<input checked="" type="radio"/>	<input type="radio"/>
The container logging provider will write log data.	<input checked="" type="radio"/>	<input type="radio"/>
Going to <code>http://localhost:5000/swagger</code> will provide the details to access the documentation for the available endpoints.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes

`http://localhost:5000/status` : Also requested with GET, this verifies if the api-key used to start the container is valid without causing an endpoint query.

Box 2: Yes

The command saves container and LUIS logs to output mount at `C:\output`, located on container host

Box 3: Yes

`http://localhost:5000/swagger` : The container provides a full set of documentation for the endpoints and a Try it out feature. With this feature, you can enter your settings into a web-based HTML form and make the query without having to

write any code. After the query returns, an example CURL command is provided to demonstrate the HTTP headers and body format that's required.

Reference:

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

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