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Understanding Microsoft Azure AI-102: Designing and Implementing an Azure AI Solution

Introduction

The Microsoft Azure AI-102 certification, also known as "Designing and Implementing an Azure AI Solution," is tailored for AI engineers looking to validate their expertise in deploying AI solutions on Microsoft Azure. This certification focuses on integrating, designing, and implementing AI workloads involving various Azure AI services.



Key Areas of Focus

AI Solution Planning and Management

AI-102 encompasses strategic planning and management of AI solutions. It requires an understanding of translating business requirements into scalable and reliable AI solutions. This includes selecting the appropriate Azure AI services and understanding data storage, management, and compliance requirements.

Natural Language Processing (NLP)

Proficiency in natural language processing using Azure services is critical. Candidates must demonstrate the ability to implement NLP solutions using Azure Cognitive Services, such as Text Analytics, Translator, and Language Understanding (LUIS). These services enable applications to understand and interpret human language.

Computer Vision

The certification covers designing and implementing computer vision solutions using services like Azure Computer Vision, Custom Vision, and Face API. These services help in extracting information from images and videos, enabling applications to perform tasks like image recognition, object detection, and facial recognition.

Conversational AI Solutions

Building conversational AI solutions using Azure Bot Service and integrating them with Azure

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Microsoft AI-102 exam measures your ability to build and deploy AI models, integrate AI services into applications, and monitor and optimize AI solutions. AI-102 exam focuses on three key areas: designing AI solutions, implementing AI solutions, and monitoring and optimizing AI solutions. AI-102 Exam also covers various Azure AI services, including Azure Cognitive Services, Azure Machine Learning, and Azure Bot Service.

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textbooks? Do you still hesitate in numerous tutorial materials? AI-102 study guide can help you to solve all these questions. AI-102 certification training is compiled by many experts over many years according to the examination outline of the calendar year and industry trends. AI-102 Study Guide not only apply to students, but also apply to office workers; not only apply to veterans in the workplace, but also apply to newly recruited newcomers. AI-102 guide torrent uses a very simple and understandable language, to ensure that all people can read and understand.

Microsoft Designing and Implementing a Microsoft Azure AI Solution Sample Questions (Q222-Q227):

NEW QUESTION # 222

You are building a language learning solution.

You need to recommend which Azure services can be used to perform the following tasks:

- * Analyze lesson plans submitted by teachers and extract key fields, such as lesson times and required texts.
 - * Analyze learning content and provide students with pictures that represent commonly used words or phrases in the text
- The solution must minimize development effort.

Which Azure service should you recommend for each task? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

☐

Answer:

Explanation:

☐

Explanation:

☐

NEW QUESTION # 223

You are building a natural language model.

You need to enable active learning.

What should you do?

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

Answer: A

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-how-to-review-endpoint-utterances#log-user-queries-to-enable-active-learning>

Topic 1, Wide World Importers

Existing Environment

A company named Wide World Importers is developing an e-commerce platform.

You are working with a solutions architect to design and implement the features of the e-commerce platform. The platform will use microservices and a serverless environment built on Azure.

Wide World Importers has a customer base that includes English, Spanish, and Portuguese speakers.

Applications

Wide World Importers has an App Service plan that contains the web apps shown in the following table.

☐

Azure Resources

You have the following resources:

An Azure Active Directory (Azure AD) tenant

The tenant supports internal authentication.

All employees belong to a group named AllUsers.

Senior managers belong to a group named LeadershipTeam.

An Azure Functions resource

A function app posts to Azure Event Grid when stock levels of a product change between OK, Low Stock, and Out of Stock. The function app uses the Azure Cosmos DB change feed.

An Azure Cosmos DB account

The account uses the Core (SQL) API.

The account stores data for the Product Management app and the Inventory Tracking app.

An Azure Storage account

The account contains blob containers for assets related to products.

The assets include images, videos, and PDFs.

An Azure Cognitive Services resource named wwics

A Video Indexer resource named wwivi

Requirements

Business Goals

Wide World Importers wants to leverage AI technologies to differentiate itself from its competitors.

Planned Changes

Wide World Importers plans to start the following projects:

A product creation project: Help employees create accessible and multilingual product entries, while expediting product entry creation.

A smart e-commerce project: Implement an Azure Cognitive Search solution to display products for customers to browse.

A shopping on-the-go project: Build a chatbot that can be integrated into smart speakers to support customers.

Business Requirements

Wide World Importers identifies the following business requirements for all the projects:

Provide a multilingual customer experience that supports English, Spanish, and Portuguese.

Whenever possible, scale based on transaction volumes to ensure consistent performance.

Minimize costs.

Governance and Security Requirements

Wide World Importers identifies the following governance and security requirements:

Data storage and processing must occur in datacenters located in the United States.

Azure Cognitive Services must be inaccessible directly from the internet.

Accessibility Requirements

Wide World Importers identifies the following accessibility requirements:

All images must have relevant alt text.

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.

Product Creation Requirements

Wide World Importers identifies the following requirements for improving the Product Management app:

Minimize how long it takes for employees to create products and add assets.

Remove the need for manual translations.

Smart E-Commerce Requirements

Wide World Importers identifies the following requirements for the smart e-commerce project:

Ensure that the Cognitive Search solution meets a Service Level Agreement (SLA) of 99.9% availability for searches and index writes.

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

Support autocompletion and autosuggestion based on all product name variants.

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

Update the stock level field in the product index immediately upon changes.

Update the product index hourly.

Shopping On-the-Go Requirements

Wide World Importers identifies the following requirements for the shopping on-the-go chatbot:

Answer common questions.

Support interactions in English, Spanish, and Portuguese.

Replace an existing FAQ process so that all Q&A is managed from a central location.

Provide all employees with the ability to edit Q&As. Only senior managers must be able to publish updates.

Support purchases by providing information about relevant products to customers. Product displays must include images and warnings when stock levels are low or out of stock.

Product JSON Sample

You have the following JSON sample for a product.

□

NEW QUESTION # 224

Select the answer that correctly completes the sentence.

□

Answer:

Explanation:

□

Explanation:

□

In relational database systems such as Microsoft SQL Server or Azure SQL Database, the following definitions apply:

* **Stored Procedure:** A stored procedure is a precompiled block of Transact-SQL (T-SQL) code stored in the database. It can contain control-of-flow statements, queries, and business logic. When executed, it runs as a single unit within the database engine. This matches the definition of "a block of code that runs in a database."

* **Table:** A table is a structured set of rows and columns used to store data, not a block of executable code.

* **View:** A view is a virtual table based on the result of a SQL query. It is used for abstraction and simplification of queries, not for executing code blocks.

* **Index:** An index is a database structure that improves the speed of data retrieval. It is not executable code.

Thus, the only option that correctly describes "a block of code that runs in a database" is a stored procedure.

The answer: A stored procedure

* Stored Procedures (Database Engine)

* Azure SQL Database - Stored procedures overview

* SQL Server Views

* SQL Server Tables

* SQL Server Indexes

NEW QUESTION # 225

You are developing a new sales system that will process the video and text from a public-facing website.

You plan to monitor the sales system to ensure that it provides equitable results regardless of the user's location or background.

Which two responsible AI principles provide guidance to meet the monitoring requirements? Each correct answer presents part of the solution. (Choose two.) NOTE: Each correct selection is worth one point.

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

Answer: A,E

Explanation:

AI systems should treat all people fairly.

AI systems should perform reliably and safely. Reference:

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

NEW QUESTION # 226

You have an Azure Cognitive Search solution and a collection of blog posts that include a category field. You need to index the posts. The solution must meet the following requirements:

* Include the category field in the search results.

* Ensure that users can search for words in the category field.

* Ensure that users can perform drill down filtering based on category.

Which index attributes should you configure for the category field?

- A. retrievable, facettable, and key
- B. searchable, sortable, and retrievable
- C. searchable, facettable, and retrievable
- D. retrievable, filterable, and sortable

Answer: D

NEW QUESTION # 227

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