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Microsoft GH-300 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Domain 4: Prompt Crafting and Prompt Engineering This section measures skills of Software Developers and AI Interaction Designers in effectively crafting prompts to optimize Copilot's output. It reviews foundational concepts such as prompt components, the role of language in prompting, zero-shot vs. few-shot prompting, and how chat history influences responses. Best practices and engineering principles for prompt design and training methods are also covered.
Topic 2	<ul style="list-style-type: none"> Privacy Fundamentals and Context Exclusions: This domain focuses on Security Engineers and Compliance Officers and addresses improving code quality with Copilot's test suggestions and security optimizations. It covers identification of security vulnerabilities, performance enhancements, and privacy features like content exclusions at repository and organization levels with explanation of their limitations. Candidates learn about safeguarding mechanisms such as duplication detection, contractual protections, security checks, and troubleshooting guide for common Copilot issues including context exclusions and suggestion gaps.
Topic 3	<ul style="list-style-type: none"> Responsible :This section of the exam measures skills of AI Ethics Officers and Risk Managers and covers the responsible and ethical usage of AI technologies. It explains the risks and limitations associated with generative AI tools, including biases in training data and the need to validate AI outputs. Candidates learn how to operate AI responsibly by identifying potential harms such as bias, fairness, privacy concerns, and mitigating these harms by applying ethical AI principles.
Topic 4	<ul style="list-style-type: none"> How GitHub Copilot Works and Handles Data: Designed for Machine Learning Engineers and Data Privacy Specialists, this section covers the data lifecycle and processing behind Copilot's code suggestions. It explains how context is gathered, prompts constructed, responses generated, and post-processed through proxy services. Candidates understand Copilot's data policies, handling of inputs, and limitations such as context window size and data age influencing suggestion relevance.

Topic 5	<ul style="list-style-type: none"> • Developer Use Cases for AI: Targeting Software Engineers and Technical Leads, this domain elaborates on how AI improves developer productivity across common tasks like learning new languages, translation, documentation, debugging, data science, and refactoring. It discusses Copilot's support in software development lifecycle management and highlights its limitations. Use of the productivity API to track Copilot's impact is also included.
Topic 6	<ul style="list-style-type: none"> • Domain 6: Testing with GitHub Copilot: This section measures abilities of QA Engineers and Test Automation Specialists to use Copilot for test generation, including unit and integration tests. It explains how Copilot can identify edge cases and assist in writing assertions. The domain also covers different Copilot subscription SKUs, privacy considerations, organizational code suggestion settings, and configuration files related to Copilot.

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GH-300 Test Engine Preparation: GitHub Copilot - GH-300 Study Guide - Fast2test

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Microsoft GitHub Copilot Sample Questions (Q117-Q122):

NEW QUESTION # 117

How does GitHub Copilot Chat help to fix security issues in your codebase?

- **A. By annotating the given suggestions with known vulnerability patterns.**
- B. By enforcing strict coding standards that prevent the introduction of vulnerabilities.
- C. By providing detailed reports on the security vulnerabilities present in the codebase.
- D. By automatically refactoring the entire codebase to remove vulnerabilities.

Answer: A

Explanation:

"When Copilot Chat generates suggestions, it may annotate them with warnings about known insecure patterns, helping developers identify potential vulnerabilities in context." This indicates that Copilot Chat assists with security by annotating code suggestions with vulnerability patterns.

References: GitHub Copilot Chat security and responsible use documentation.

NEW QUESTION # 118

Which GitHub Copilot plan allows for prompt and suggestion collection?

- A. GitHub Copilot Codespace
- B. GitHub Copilot Business
- **C. GitHub Copilot Enterprise**
- D. GitHub Copilot Individuals

Answer: C

Explanation:

GitHub Copilot Enterprise allows for prompt and suggestion collection, enabling organizations to analyze and improve their usage of the tool.

Reference: GitHub Copilot Enterprise data collection documentation.

NEW QUESTION # 119

How can GitHub Copilot be limited when it comes to suggesting unit tests?

- A. GitHub Copilot primarily suggests basic unit tests that focus on core functionalities, often requiring additional input from developers for comprehensive coverage.
- B. GitHub Copilot can handle any complexity in code and automatically generate appropriate unit tests.
- C. GitHub Copilot's limitations in generating unit tests can vary based on the IDE version you are using.
- D. GitHub Copilot can generate all types of unit tests, including those for edge cases and complex integration scenarios.

Answer: A

Explanation:

GitHub Copilot often suggests basic unit tests and may not cover all edge cases or complex integration scenarios, requiring developers to supplement its suggestions.

Reference: GitHub Copilot testing limitations.

NEW QUESTION # 120

Which REST API endpoint is used to modify details about a GitHub Copilot Business subscription? (Each correct answer presents part of the solution. Choose two.)

- A. Add teams to the Copilot subscription for an organization
- B. Remove teams from the Copilot subscription for an organization
- C. Upgrade or downgrade the subscription tier
- D. Migrate Copilot seat assignments between GitHub organizations
- E. Reassign Copilot seats based on GitHub repository size

Answer: A,B

Explanation:

The REST API endpoints are used to add and remove teams from the Copilot Business subscription within an organization.

Reference: GitHub Copilot Business API documentation.

NEW QUESTION # 121

What is the process behind identifying public code matches when using a public code filter enabled in GitHub Copilot?

- A. Analyzing the context and structure of the code being written
- B. Comparing suggestions against public code using machine learning.
- C. Running code suggestions through filters designed to detect public code
- D. Reviewing the user's browsing history to identify public repositories

Answer: C

Explanation:

When the public code filter is enabled, GitHub Copilot runs code suggestions through filters designed to detect matches with publicly available code. This helps prevent the generation of code that might infringe on copyright or licensing agreements.

Reference: GitHub Copilot documentation on public code filtering and licensing.

NEW QUESTION # 122

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