GH-300 - Fantastic GitHub Copilot Exam Preparation

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Microsoft GH-300 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• GitHub Copilot Plans and Feature: This domain targets Product Managers and DevOps Engineers and focuses on understanding the various GitHub Copilot subscription plans like Individual, Business, and Enterprise, including distinctions and management features. It covers how Copilot is integrated into IDEs, different triggering methods for code suggestions, organizational policy management, subscription administration via API, and effective use of Copilot Chat and Knowledge Bases. Candidates also learn about CLI usage and configuration.
Topic 3	• 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 4	• 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.

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Microsoft GitHub Copilot Sample Questions (Q32-Q37):

NEW QUESTION # 32
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's limitations in generating unit tests can vary based on the IDE version you are using.
- C. GitHub Copilot can generate all types of unit tests, including those for edge cases and complex integration scenarios.
- D. GitHub Copilot can handle any complexity in code and automatically generate appropriate unit tests.

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 # 33
Which of the following statements correctly describes how GitHub Copilot Individual uses prompt data?
(Each correct answer presents part of the solution. Choose two.)

- A. Real-time user input helps generate context-aware code suggestions.
- B. Prompt data is used internally by GitHub for improving the search engine.
- C. Prompt data is stored unencrypted for faster processing.
- D. Prompt data is used to train machine learning models for better code suggestions.

Answer: A,D

Explanation:
Exact extracts:
* "For GitHub Copilot Individual, prompts and code completions may be retained and used to train machine learning models to improve Copilot." References: GitHub Copilot data usage and privacy documentation.

NEW QUESTION # 34
Where is the proxy service hosted?

- A. Self hosted
- B. Amazon Web Service
- C. Google Cloud Platform
- D. Microsoft Azure

Answer: D

Explanation:
The proxy service for GitHub Copilot is hosted on Microsoft Azure.

NEW QUESTION # 35
Which principle emphasizes that AI systems should be understandable and provide clear information on how they work?

- A. Inclusiveness
- B. Accountability
- C. Transparency
- D. Fairness

Answer: C

Explanation:
The principle of transparency emphasizes that AI systems should be understandable and provide clear information about their operations. This ensures that users can understand how the AI arrives at its decisions and suggestions.

NEW QUESTION # 36
What are the additional checks that need to pass before the GitHub Copilot responses are submitted to the user? (Each correct answer presents part of the solution. Choose two.)

- A. Code quality
- B. Suggestions matching public code (optional based on settings)
- C. Performance benchmarking
- D. Compatibility with user-specific settings

Answer: A,B

Explanation:
Exact extracts:
* "Copilot applies post-processing checks for code quality to ensure that responses meet baseline standards." References: GitHub Copilot safeguards documentation.

NEW QUESTION # 37
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