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Microsoft GH-300 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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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Microsoft GitHub Copilot Sample Questions (Q101-Q106):

NEW QUESTION # 101
What role does the pre-processing of user input play in the data flow of GitHub Copilot Chat?

- A. It formats the output response before presenting it to the user.
- B. It enriches the input prompt with additional context before passing it to the language model.
- C. It filters out irrelevant information from the user's input prompt.
- D. It directly generates a response based on the user's input prompt.

Answer: B

Explanation:
"Before being sent to the model, user input is pre-processed to enrich the prompt with contextual information such as open files, code selections, or previous conversation history." This shows that pre-processing is used to enrich input with context, making option B correct.
References: GitHub Copilot Chat architecture documentation.

NEW QUESTION # 102
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. Compatibility with user-specific settings
- D. Performance benchmarking

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 # 103

In what way can GitHub Copilot and GitHub Copilot Chat aid developers in modernizing applications?

- A. GitHub Copilot can refactor applications to align with upcoming standards.
- B. GitHub Copilot can suggest modern programming patterns based on your code.
- C. GitHub Copilot can create and deploy full-stack applications based on a single query.
- D. GitHub Copilot can directly convert legacy applications into cloud-native architectures.

Answer: B

Explanation:
GitHub Copilot and GitHub Copilot Chat are powerful AI-driven tools designed to assist developers by providing context-aware code suggestions and interactive support. Specifically, in the context of modernizing applications, GitHub Copilot excels at analyzing existing code and suggesting modern programming patterns, best practices, and syntax improvements that align with contemporary development standards. For example, it can recommend updates to outdated constructs, propose more efficient algorithms, or suggest frameworks and libraries that are widely used in modern application development.
Why not A? GitHub Copilot does not "directly convert" legacy applications into cloud-native architectures. It can assist by suggesting code changes or patterns that support such a transition, but it doesn't autonomously perform the full conversion process, which involves architectural decisions and deployment steps beyond its scope.
Why not C? While GitHub Copilot can generate code snippets and even larger portions of an application, it cannot create and deploy full-stack applications from a single query. It requires developer input, refinement, and integration to achieve a complete, deployable solution.
Why not D? GitHub Copilot can assist with refactoring by suggesting improvements to existing code, but it doesn't inherently "align with upcoming standards" in a predictive sense. Its suggestions are based on current best practices and the data it was trained on, not future standards that are yet to be defined.
Thus, B is the most accurate and realistic way GitHub Copilot aids developers in modernizing applications, leveraging its ability to provide relevant, context-based suggestions to update and improve codebases.

NEW QUESTION # 104

Which Microsoft ethical AI principle is aimed at ensuring AI systems treat all people equally?

- A. Fairness
- B. Privacy and Security
- C. Inclusiveness
- D. Reliability and Safety

Answer: A

Explanation:
"Fairness. AI systems should treat all people fairly." This principle directly defines fairness as the standard for ensuring equality across all individuals.
References: Microsoft Responsible AI principles.

NEW QUESTION # 105

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

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

Answer: D

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.

NEW QUESTION # 106

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