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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 Con Officers and addresses improving code quality with Copilot's test suggestions and security optimizat covers identification of security vulnerabilities, performance enhancements, and privacy features like content exclusions at repository and organization levels with explanation of their limitations. Candida learn about safeguarding mechanisms such as duplication detection, contractual protections, security checks, and troubleshooting guide for common Copilot issues including context exclusions and sugg gaps. 			
Topic 2	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 3	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 4	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.			

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Microsoft GitHub Copilot Sample Questions (Q73-Q78):

NEW QUESTION #73

What types of prompts or code snippets might be flagged by the GitHub Copilot toxicity filter? (Each correct answer presents part of the solution. Choose two.)

- A. Sexually suggestive or explicit content
- B. Hate speech or discriminatory language (e.g., racial slurs, offensive stereotypes)
- C. Code that contains logical errors or produces unexpected results
- D. Code comments containing strong opinions or criticisms

Answer: A,B

Explanation:

GitHub Copilot includes a toxicity filter to prevent the generation of harmful or inappropriate content. This filter flags prompts or code snippets that contain hate speech, discriminatory language, or sexually suggestive or explicit content. This ensures a safe and respectful coding environment.

NEW QUESTION #74

What is the correct way to exclude specific files from being used by GitHub Copilot Business during code suggestions?

- A. Add the specific files to a copilot.ignore file.
- B. Rename the files to include the suffix no copilot.
- C. Modify the .gitignore file to include the specific files.
- D. Use the GitHub Copilot settings in the user interface to exclude files.

Answer: D

Explanation:

The correct way to exclude files is through the GitHub Copilot settings in the user interface, which allows administrators to specify files and directories to be ignored.

NEW QUESTION #75

How can GitHub Copilot assist developers during the requirements analysis phase of the Software Development Life Cycle (SDLC)?

- A. By automatically generating detailed requirements documents.
- B. By providing templates and code snippets that help in documenting requirements.
- C. By identifying and fixing potential requirement conflicts when using /help.
- D. By managing stakeholder communication and meetings.

Answer: B

Explanation:

GitHub Copilot can assist during the requirements analysis phase by providing templates and code snippets that aid in documenting requirements. This helps streamline the process of capturing and organizing project requirements. Reference: GitHub Copilot documentation on SDLC assistance.

NEW QUESTION #76

How can the insights gained from the metrics API be used to improve the development process in conjunction with GitHub Copilot?

- A. Insights on the types of coding languages where GitHub Copilot is most helpful.
- B. Automated generation of complete project documentation.
- C. Detailed analysis of GitHub Copilot's suggestions vs. manual coding.
- D. Real-time debugging and error resolution statistics.

Answer: C

Explanation:

"The Copilot metrics API provides insights into how suggestions are being accepted and used, enabling teams to analyze the relative impact of Copilot-generated code versus manually written code." This confirms option D is correct, as the API enables analysis of Copilot versus manual coding.

References: GitHub Copilot metrics API documentation.

NEW QUESTION #77

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

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

Answer: C

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, Bis 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.

Reference: GitHub Copilot documentation on application modernization.

NEW QUESTION #78

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