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Microsoft GH-900 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Introduction to Git and GitHub: This section of the exam measures skills of Junior Developers and Platform Support Specialists and covers the basic understanding of Git and GitHub. It explains what Git is and why it is used, the fundamental Git workflow, and concepts related to repositories including their local and remote distinctions. Candidates learn essential Git commands such as initializing and cloning repositories, adding and committing changes, pushing and pulling updates, and branching and merging. It also covers navigating GitHub by creating accounts, managing repositories, understanding its interface, and working with issues and pull requests.
Topic 2	<ul style="list-style-type: none">• Project Management: This section is designed for Project Coordinators and Product Managers and focuses on using GitHub Projects for project management. Candidates learn to create and manage GitHub Projects, utilize project boards for organizing tasks, and integrate project workflows with issues and pull requests to maintain project visibility and progress.
Topic 3	<ul style="list-style-type: none">• Working with GitHub Repositories: This domain targets Repository Administrators and Content Managers, focusing on managing repository settings and permissions. Candidates learn to configure repositories, use templates, and effectively manage files by adding, editing, and deleting. The domain also addresses versioning of files and the use of GitHub Desktop for streamlined file management tasks within repositories.
Topic 4	<ul style="list-style-type: none">• Collaboration Features: This section measures skills of Software Engineers and Team Leads and covers collaborative workflows using GitHub. It includes forking repositories, creating and managing pull requests, reviewing and merging code changes, and using GitHub Actions to support CI• CD pipelines. Candidates also explore project management features such as creating and managing issues, using labels, milestones, and project boards, and tracking progress through GitHub Projects.

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Microsoft GitHub Foundations Sample Questions (Q65-Q70):

NEW QUESTION # 65

What is GitHub?

- A. A centralized version control system designed for nurturing a community of developers and providing access to open source projects
- B. A platform that focuses on facilitating the growth and sharing of code, specifically designed for new developers to hone their skills
- C. A cloud-based hosting service for version control and collaboration, focused on creating a safe and collaborative environment for developers
- D. A proprietary software platform for nurturing creativity in developers and building a technology community

Answer: C

Explanation:

GitHub is a cloud-based platform that provides hosting for software development and version control using Git. It offers tools for collaboration, project management, and security to create a safe and productive environment for developers.

GitHub Overview:

Option B is correct because GitHub is primarily known as a cloud-based hosting service for Git repositories, offering a collaborative environment where developers can work together on projects, manage version control, and implement security practices.

Incorrect Options:

Option A is incorrect because GitHub is not proprietary in the sense of being closed off from version control standards; it is widely recognized as an open platform for collaboration.

Option C is incorrect because, while GitHub is accessible to new developers, it is designed for developers of all skill levels and not specifically tailored for beginners.

Option D is incorrect because GitHub is not a centralized version control system; it supports Git, which is distributed.

Reference:

GitHub Docs: About GitHub

NEW QUESTION # 66

As a user, what feature can you use to merge proposed changes in a repository on GitHub?

- A. Issues
- B. Pull requests
- C. Discussions
- D. Projects

Answer: B

Explanation:

The feature you can use to merge proposed changes in a repository on GitHub is Pull requests. Pull requests are a core feature of GitHub, allowing developers to propose changes to a codebase, review code, discuss the changes, and eventually merge them into the main branch. This collaborative workflow ensures that code is reviewed and vetted before becoming part of the project.

NEW QUESTION # 67

What is the primary purpose of creating a new branch in the GitHub flow?

- A. To capture information about an issue
- B. To incorporate changes from a review
- C. To create a backup of the main branch
- **D. To experiment with new features or fixes**

Answer: D

Explanation:

In GitHub Flow, creating a new branch is a key step in the development process that allows for isolated development of new features or fixes without affecting the main codebase.

Experimenting with New Features or Fixes:

Option C is correct. The primary purpose of creating a new branch in the GitHub flow is to provide a safe space to experiment with new features or fixes. This allows developers to work on changes independently and only merge them into the main branch after they have been reviewed and approved.

Incorrect Options:

Option A (To create a backup of the main branch) is incorrect because branches are not typically used for backups; they are for active development.

Option B (To capture information about an issue) is incorrect because issues are tracked separately; branches are for code changes.

Option D (To incorporate changes from a review) is incorrect because incorporating changes is done during the pull request process, not when creating a branch.

Reference:

GitHub Docs: GitHub Flow

NEW QUESTION # 68

What is the primary purpose of creating a new branch in the GitHub flow?

- A. To capture information about an issue
- B. To incorporate changes from a review
- C. To create a backup of the main branch
- **D. To experiment with new features or fixes**

Answer: D

Explanation:

In GitHub Flow, creating a new branch is a key step in the development process that allows for isolated development of new features or fixes without affecting the main codebase.

Experimenting with New Features or Fixes:

Option C is correct. The primary purpose of creating a new branch in the GitHub flow is to provide a safe space to experiment with new features or fixes. This allows developers to work on changes independently and only merge them into the main branch after they have been reviewed and approved.

Incorrect Options:

Option A (To create a backup of the main branch) is incorrect because branches are not typically used for backups; they are for active development.

Option B (To capture information about an issue) is incorrect because issues are tracked separately; branches are for code changes.

Option D (To incorporate changes from a review) is incorrect because incorporating changes is done during the pull request process, not when creating a branch.

Reference:

GitHub Docs: GitHub Flow

NEW QUESTION # 69

Which of the following best describes GitHub Copilot?

- **A. An AI pair programmer that offers autocomplete-style suggestions**
- B. A Visual Studio Code extension for developing AI solutions
- C. An advanced search tool to intelligently reuse existing code in your projects
- D. An AI tool designed to replace software developers

Answer: A

GitHub Copilot is described as an AI pair programmer that offers autocomplete-style suggestions. It is a tool integrated into development environments like Visual Studio Code that helps developers by providing code suggestions as they type. Copilot can suggest entire lines or blocks of code based on the context of what you're writing, making it a valuable assistant in coding, but not a replacement for developers.

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