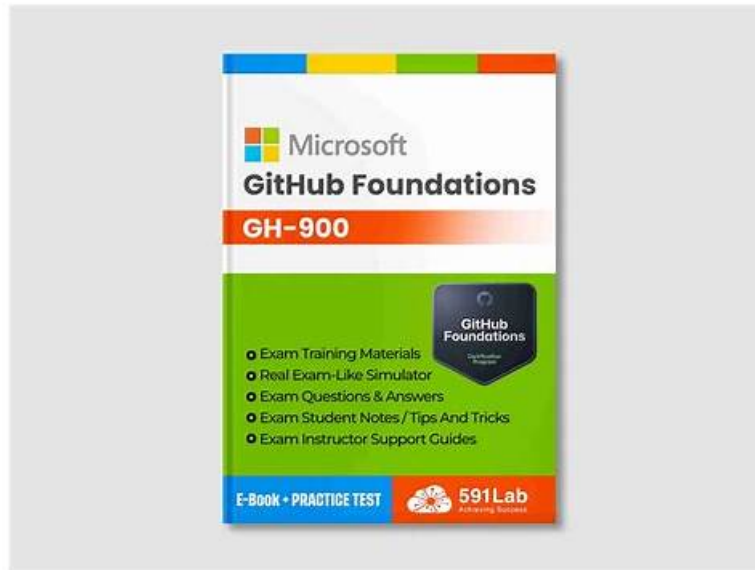


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Microsoft GitHub Foundations Sample Questions (Q95-Q100):

NEW QUESTION # 95

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

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

Answer: A

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.

References:

GitHub Docs: GitHub Flow

NEW QUESTION # 96

You're reading a YAML workflow file in a GitHub repository and notice that it defines multiple jobs, each with several steps. Your team lead asks you to briefly explain how GitHub Actions workflows are structured. Which of the following best describes the main components that make up a GitHub Actions workflow?

- A. Pull requests, forks, and branches
- B. Webhooks, gists, and notifications
- C. Issues, discussions, and commits
- **D. Workflows, jobs, steps, actions, and runners**

Answer: D

Explanation:

GitHub Actions workflows consist of workflows, which define automation processes; jobs, which are tasks executed in parallel or sequentially; steps, which are individual commands within jobs; actions, which are reusable components performing specific tasks; and runners, which are environments that execute workflows. This structured approach allows for efficient automation of builds, tests, and deployments.

Option D is CORRECT because GitHub Actions is built from the following key components:

Workflows - Automated processes triggered by events.

Jobs - Group of steps that execute on the same runner.

Steps - Individual commands or actions in a job.

Actions - Reusable extensions that run complex tasks.

Runners - Virtual machines or servers that execute jobs.

Reference:

<https://docs.github.com/en/actions/learn-github-actions/understanding-github-actions>

NEW QUESTION # 97

When making comments in GitHub, the supported text language is:

- **A. Markdown**
- B. XML
- C. JavaScript.
- D. CSS.
- E. JSON.

Answer: A

NEW QUESTION # 98

Which of the following describes a branch in Git?

- A. A new repository that shares code with the original "upstream" repository
- B. A pointer to an identical snapshot of the project at a specific point in time
- C. A physical copy of the entire project stored on disk
- **D. A separate, isolated copy of the project's codebase**

Answer: D

Explanation:

In Git, a branch is a fundamental concept that represents an independent line of development within a project.

Here's a more detailed explanation:

* Branch in Git:

* Option C is correct because a branch in Git is essentially a separate, isolated copy of the project's codebase where you can make changes without affecting the main codebase. Branches allow developers to work on features, fixes, or experiments in parallel to the main project.

* Other Options:

* Option A is incorrect because while a branch does point to a specific commit (which represents a snapshot of the project), the description lacks the emphasis on the isolated and parallel development aspect that is critical to the understanding of branches.

* Option B is incorrect because a branch is not a physical copy stored on disk; it is a logical reference within the repository.

* Option D is incorrect because that description better fits the concept of a fork, not a branch. A fork is a new repository that is a copy of another repository, usually used to contribute back to the original ("upstream") repository.

References:

Git Documentation: Branches in a Nutshell

GitHub Docs: Understanding the GitHub Flow

NEW QUESTION # 99

While maintaining the gist history, which of the following is the most efficient way to create a public gist based on another user's gist?

- **A. Fork the gist.**
- B. Request to be added to the existing gist.
- C. Create a new gist and copy the content from the existing gist.
- D. Clone the gist.

Answer: A

Explanation:

Forking a gist is the most efficient way to create a public gist based on another user's gist while maintaining the history of the original gist. When you fork a gist, you create a new gist in your own account that retains a link to the original, allowing you to track changes and contribute back if desired.

* Forking a Gist:

* Option A is correct because forking is a straightforward way to create your own copy of another user's gist while preserving the history and making it easy to track updates.

* Incorrect Options:

* Option B is incorrect because creating a new gist and copying the content would not preserve the history or link back to the original gist.

* Option C is incorrect because cloning is typically associated with repositories, not gists, and is more complex than forking for this purpose.

* Option D is incorrect because requesting to be added to the existing gist is not a standard GitHub feature.

References:

GitHub Docs: Forking Gists

NEW QUESTION # 100

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