

Assignment 7 Questions

1. What is a client and what is a server?

A client is a device or application that requests resources from another computer program or server. A server is a computer program or device that provides services or resources to clients over a network. Servers can serve various purposes such as hosting websites, storing data, or running applications.

2. How does a server know which file to read initially and why?

The server reads the initial file based on the request received from the client, which specifies a URL or path in the request. The server looks for the corresponding file based on the URL or path provided in the request. The initial file read to load a webpage is usually named index.html.

3. What does a code repository do and why is it important?

A code repository is a central location where developers can manage and collaborate on code for a project. It tracks changes to the codebase and provides version control. Code repositories are important because they provide a structured way to manage code and keep track of changes for a project requiring a lot of code.

4. Why do we create external CSS files while we can use styling inside of an HTML?

Creating external CSS files allows for better organization, maintainability, and reusability of styles across multiple HTML pages. It separates HTML content from styling instructions, making the code easier to manage and understand. External CSS files can be cached by browsers, improving performance and load times.

5. What does the “div tag” do, and how is it useful?

The <div> tag is a HTML element that creates sections within an HTML document. It is used for grouping and styling content, and structuring layouts.

6. To describe styling in an HTML file, which tag do you need to use?

The <style> tag. This tag defines internal CSS styles in an HTML document. Styles specified within the <style> tag apply to the content of the HTML document in which it is defined.

7. How do you create a link in the index.html which points to a file inside the same folder as the index.html?

Use a relative path. The path links the file to the link specified. When you click the link on your website, it will open the new file. An example looks like this:

Link to File

8. What is a template and how is it useful for website building?

A template is a pre-designed layout or structure that can be used as a basis for creating web pages or documents. Templates often include placeholders for content and styling, allowing users to easily customize and populate them with their own information. Templates are useful for website building because they provide a consistent design and layout across multiple pages, streamline the development process, and ensure a cohesive look and feel throughout the website.

9. What does “pull” and “push” mean in using GitHub?

In GitHub, "pull" refers to the action of fetching changes from a remote repository (such as GitHub) and merging them into the local repository. It is used to synchronize changes made by other contributors with your local copy of the repository. "Push," on the other hand, refers to the action of sending changes from your local repository to a remote repository, such as GitHub. It is used to publish your local changes and make them available to others.

10. Why do we need to run a local web server? How do we run a local server using Python?

We need to run a local web server to test web pages locally before deploying them to a production server. In a local server, we can test functionality and appearance without it affecting the real web page. To run a local server using python, open the command prompt, navigate to the directory containing your HTML files, and then run the following command:

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python -m http.server
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