BLACK
N
WHITE

Learn Today | Lead Tomorrow

jag....

How Web Works

🔍 BlackNwhite ✕

What is web ?

The web, or World Wide Web (WWW), constitutes a vast interconnected system of digital content accessed primarily through web browsers. It relies on the global internet infrastructure, employing hyperlinks and Uniform Resource Locators (URLs) to facilitate seamless navigation among web pages, documents, and media. Web development encompasses the creation and maintenance of websites, employing technologies like HTML, CSS, and JavaScript. Web services enable a wide range of online activities, including social media, e-commerce, and cloud-based applications. The advent of Web 2.0 brought interactive and user-generated content, transforming the internet into a dynamic platform for information exchange, collaboration, and global connectivity, impacting virtually every aspect of modern life.

- A user enters a URL (Uniform Resource Locator) into their web or browser.

- The browser sends a request to the server where the website is hosted.

browser   sending   server

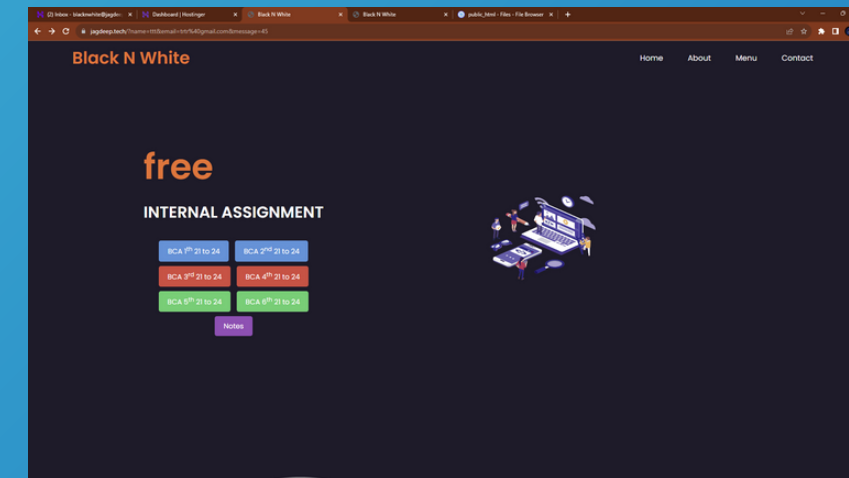- The server responds by sending back the appropriate files (such as HTML, CSS JavaScript files).
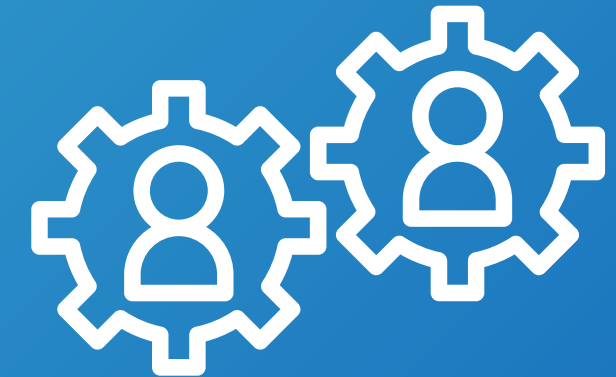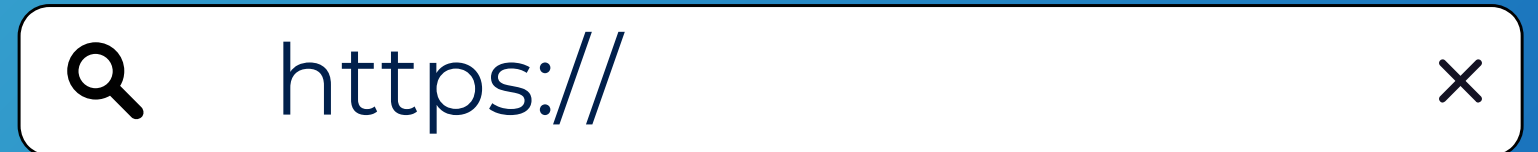
HTML   CSS   JAVASCRIPT

- **The browser interprets and displays the file as a web page.**

- **Web pages are typically written in HTML, which is used to structure the content and add the layout of pages.**

- **CSS is used to control the visual design of the web pages.**

HTML

CSS

- JavaScript is used to add interactivity and dynamic functionality.

- Web pages can fetch and retrieve data from databases and other external sources.

- Web pages can communicate with other web pages through API

- Web communication is based on HTTP which is a set of rules for transmitting data over the Internet.
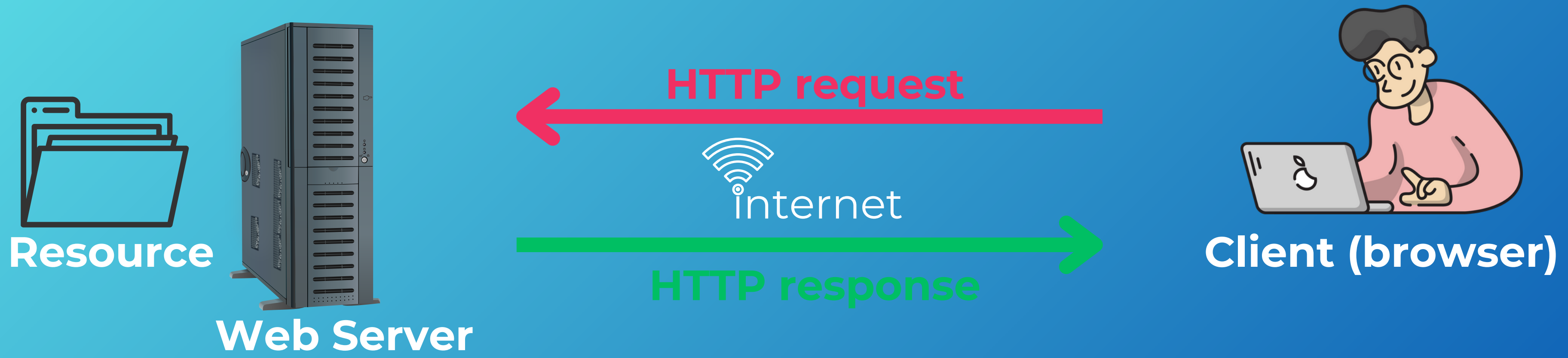
  🔍 https:// ✕

- When the browser requests a server, it sends the request the type of request ($GET or $POST) and any additional information or data that should be included.

- The server then responds using the HTTP protocol , sending back the appropriate file or data .

Resource

Web Server

HTTP request

internet

HTTP response

Client (browser)

"our journey is endless"