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| **Gomycode** |
| **Web fundamentals project** |
| **Check point 1** |

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**1)how the web works :**

When you type a web address into your browser:

1. The browser goes to the DNS server, and finds the real address of the server that the website lives on (you find the address of the shop).
2. The browser sends an HTTP request message to the server, asking it to send a copy of the website to the client. This message, and all other data sent between the client and the server, is sent across your internet connection using TCP/IP.
3. If the server approves the client's request, the server sends the client a "200 OK" message, which means "Of course you can look at that website! Here it is", and then starts sending the website's files to the browser as a series of small chunks called data packets.
4. The browser assembles the small chunks into a complete web page and displays it to you.

**2)what you need to do to be a web developer :**

**Technical skills**

* **Coding:** Common programming languages include HTML, PHP, cascading style sheets, and JavaScript for front-end design. Consider learning Python, Java, or Ruby if you want to do back-end development.
* **Responsive design:** People use a variety of devices to view websites. Developers should be able to create sites that look as good on smartphones and tablets as they do on computer screens.
* **Technical SEO:** Many factors of website design can affect the site’s search engine ranking. Understanding how search engines rank sites is useful in a developer’s work.
* **Version control:** This lets you track and control changes to the source code without starting over from the beginning each time you run into a problem.
* **Visual design:** Understanding basic design principles, such as how to use white space, choose fonts, and incorporate images could boost your marketability.

**Workplace skills**

* **Communication:** Web developers spend time discussing design ideas with their clients and team members through each step of the project.
* **Customer service:** A web developer creates websites for the client to use and should remain client-focused to achieve the best results.
* **Detail-oriented:** Little details, like a small change in code, can make a big difference in how a website performs.
* **Organization:** Keeping track of deadlines, project tasks, workflow, and budgets is helpful if you want to complete a website design on time.
* **Problem-solving:** Web developers often run into issues when designing websites. They should have the patience and ability to identify problems in the design or coding and solve them in a methodical way.

**3)Role of web developer :**

* Designing user interfaces and navigation menus
* Writing and reviewing code for sites, typically HTML, XML, or JavaScript
* Integrating multimedia content onto a site
* Testing web applications
* Troubleshooting problems with performance or user experience
* Collaborating with designers, developers, and stakeholders