Front End Developer Skills You Must Have

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Who is a front-end developer?
You might have been <u>awestruck</u> quite a few times while scrolling beautiful websites with complicated yet smooth features. All of those visible site features are created using front-end development (also known as "front end web development"), and the people who create them are known as front-end developers. While web design is concerned with how a website appears, front-end development is concerned with how that design is <u>deployed</u> on the web.

A front-end developer is someone who uses coding languages like HTML, CSS, and JavaScript to construct web designs. Front-end developers are frequently referred to as "client-side developers" to separate themselves from back-end developers, who program what happens behind the scenes (like databases).

Front End Developer Skills
Front end developers require a combination of technical and soft abilities. If you're pursuing a career as a Front-End Developer, some of the soft skills you'll need to develop are creativity, teamwork and problem-solving. Whereas, the technical skills a front end developer must have include the following:

1. HTML & CSS:
The <u>cornerstones</u> of web development are CSS (Cascading Style Sheets) and HTML (HyperText Markup Language). You may create a website with only these tools. CSS is used to style the visual layout of the webpage, while HTML provides structure. These languages, as well as all of the other technical skills described here, are a developer's toolkit, allowing you to start from scratch.

2. Javascript:
While CSS and HTML can be used to create a basic website, JavaScript is required to make the website interactive. You'll be well on your way to landing developer gigs if you know all three of these languages. Consider some of the interactive sites you've visited to help you <u>recall</u> what JavaScript does. JavaScript is required to run online gaming, quizzes, and animations.JavaScript ES6 adds new syntax and great functionality to your code, making it more contemporary and readable. It enables you to write less code while doing more.

3. Frameworks and Libraries:
Libraries like jQuery are part of JavaScript. It's a collection of plugins and extensions that make using JS on your website faster and easier. jQuery reduces common operations that require numerous lines of JS code into a structure that can be executed with just one line of code. A number of frameworks are included with CSS and JavaScript. These are essentially CSS or JavaScript tools that can help you with a variety of tasks. The good news for front-end developers is that they don't have to start from scratch with every feature. Logging in to a

website or using the search box on a blog, for example, are common functionalities for which these frameworks have components. Frameworks have their own set of advantages and disadvantages. As a result, it's critical to understand which framework is ideal for the application you're developing.

4. Responsive Design:

The days of <u>merely</u> using one device to access a web application are long gone. Consumers increasingly use a variety of devices, many of which are mobile, such as smartphones and tablets. When it comes to web development, frontend developers must be aware of this and understand the fundamentals of responsive design. When creating a website, make sure that the pages adapt to the device that your visitors are using. Today, knowing the principles of responsive design and how to apply them in your code is critical.

5. Cross-Browser Compatibility:

You might not consider how a website operates across different browsers when it comes to online performance. While most browsers now are capable of maintaining uniformity while displaying a site's content, you may still notice minor <u>discrepancies</u>. As a result, cross-browser development remains one of the most crucial front-end skills to have. You may think of this concept as an artist being able to work across several canvases, similar to how responsive design works.

6. Version Control:

Version control is the process of recording and controlling changes to your source code so that if something goes wrong, you don't have to start again. It's a program that lets you track <u>prior</u> changes so you can go back to a previous version of your work and figure out what went wrong without having to start from scratch. Git is one of the most widely used version control systems. If you want to work in web development, you'll need to learn how to use it.

7. Testing and Debugging:

To keep your project bug-free, testing is an essential component. As a result, a front end developer must have the capacity to test and debug code. For web development, there are a variety of testing approaches. Functional testing examines a specific piece of functionality on your site and validates that it performs as expected by the code. Another technique is unit testing, which evaluates each individual line of code for correct operation. There are frameworks to assist you with testing, which is an important aspect of the front-end development process. Programs like Mocha and Jasmine are designed to make your testing process go faster and easier.

8. Web Performance:

HTML, CSS, and JavaScript are the three basic tools used in frontend development. However, you'll need other abilities to make them more efficient and operate in your favor.
As a result, the best front-end developers are also experts in automation and web performance. It doesn't matter if you built an incredible website if the user experience is poor. Consumers today are <u>ruthless</u>, and if a website takes more than a few seconds to load, they are likely to abandon it. That's why savvy frontend developers know how to boost site performance without sacrificing functionality by compressing pictures or deleting any extraneous characters from their code.

The specific talents a frontend developer is expected to have are highly dependent on the project and its requirements. However, if you want to get a head start in front-end development, you'll need the skills we outlined earlier. We wish you all the best!

CHECKING FOR UNDERSTANDING

Read the sentences. Are they _True_ or _False_?

1. All the visible site features are created by back-end developers._____

2. Web design is concerned with how a website appears, and front-end development is concerned with how that design is displayed on the web. ._____

3. Creativity, teamwork and problem-solving are some of the technical skills that a front-end developer should have. ._____

4. HTML is used to style the visual layout of a webpage, while CSS provides structure.

5. JS is required to make a website interactive. ._____

6. Responsive design enables the pages to adapt to the device that the visitors are using. ._____

7. Front-end developers should know about automation and web performance. ._____