Desarrollo Front-end

Fernanda Sánchez Cuevas

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I. INTRODUCTION

Frontend development, also known as client-side development, focuses on creating and improving the user interface (UI) and user experience (UX) of an application or website. It is the part of a web development project that end users interact with directly. The frontend is responsible for presentation and interactivity, and encompasses the design, structure and implementation of visual elements.

II. ¿WHAT IS THE FRONTEND FOR?

The frontend is used to create the interface of a website, from its structure to the styles, such as the definition of colors, textures, typographies, sections, among others. Its use is crucial for the user to have a good experience within the site or application.

III. TECHNOLOGIES AND TOOLS

- HTML (Hypertext Markup Language): Fundamental basis for the structure of web pages, it defines the hierarchy and arrangement of elements.
- CSS (Cascading Style Sheets): In charge of the style and presentation of the interface, it determines the design, colors and format of the HTML elements.
- JavaScript: Programming language that allows real-time interactivity in the user interface. It facilitates DOM manipulation and response to user events.
- Frameworks and Libraries: Tools such as React, Angular and Vue.js provide predefined frameworks and reusable components, speeding up development and improving code maintainability.

IV. RESPONSIVE DESIGN

- Media Queries: Used in CSS to adapt the layout to different screen sizes and resolutions.
- Viewport Meta Tag: Defines the initial scale and width of the display area, crucial for adaptability on mobile devices.
- Grid Systems: Systems such as Bootstrap offer a flexible grid that facilitates the creation of responsive designs.

V. PERFORMANCE OPTIMIZATION

- File Minification and Concatenation: Reduction of CSS and JS file size to speed up page loading.
- Image Compression: Use of optimized formats and compression to reduce image loading time.
- Delayed and Asynchronous Loading: Delaying the loading of non-critical resources or loading them in the background to improve initial page speed.

VI. CONCLUSION

Frontend development is a multifaceted discipline that encompasses everything from the basic structure of web pages to the creation of dynamic and engaging user experiences. The right combination of technologies, responsive development practices, performance optimization and focus on accessibility contribute to the creation of effective, user-centric web interfaces. The constant evolution of these technologies underscores the importance of staying current and adapting to the changing demands of web development. Ultimately, effective frontend development is very important to deliver modern and satisfying digital experiences.

VII. REFERENCES

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