Date: 2022-03-28

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Subject: Laptop for Front-End Developers

BACKGROUND

Web or application development is focused on two categories: the user interface and user experience. User interface refers to the website’s appearance, while user experience refers to the user’s interaction with the website (i.e., the overall experience). Developers who focus on the user interface or the website’s aesthetics are called front-end developers [1]. They design the website’s layout, colour palette, etc. Programmers who focus on the user experience are called back-end developers. They work on the website’s ease of use, utility, etc. [2].

Determining the laptop on which a developer designs a website is very crucial. Working on a project using an outdated laptop could delay project development and risk losing important data.

This report aims to dissect and determine which laptop is better for front-end developers.

CRITERIA

The two laptops will be based on three criteria: display, processor, and budget.

1. Display – Having a laptop with good display features is very important because front-end development heavily focuses on design. Designing an HD application using a low-resolution computer, for example, could be very detrimental to the project because the laptop will not be able to handle the project’s requirements.
2. Processor – The computer’s processor, also called the Central Processing Unit, is responsible for executing all the instructions received from the user, application, or other computers. The processor determines how quickly a computer can store and retrieve data [3].

Working on projects using a computer with a weak processor not only delays the work development but also risks losing progress. This is especially crucial because most applications used by front-end developers, such as Adobe Photoshop and Adobe Illustrator, require powerful processors. If the computer cannot handle the workload of the application, the computer could crash, and the developer could lose all the unsaved data.

1. Budget – It is important to consider the budget when choosing the right laptop for developers. While most office-employed developers are paid well and are usually provided computers by their employers, there are freelance/self-employed developers who need to provide their own equipment. Some developers who are still starting or are still studying also may not have much to start with.

RESEARCH PLAN

I will choose two top-selling laptops from different brands and compare them according to the laptop’s display features, processor, and budget, using the comparative analysis format below. I will discuss each criterion and determine which laptop is better accordingly. After comparing the two laptops, I will establish which laptop is better overall.

The findings will be presented in a written report and a visual presentation. The sources will be cited using the IEEE style referencing. I will also add my recommendations and provide additional readings for those who wish to do more research on finding the right laptop for front-end developers.

# REFERENCES

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