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Programming Languages

I am currently working on this project alone, but am still open to working with a partner for this project. I am interested in studying the Javascript Programming Language and its capabilities in terms of dynamic web design. Javascript is a programming language commonly used for dynamic web design as well as storage of memory and general scripting. Javascript currently is used in 98% of all websites as of 2023. Javascript is one of the core languages of the World Wide Web, managing a variety of tasks such as website behavior, incorporating third party libraries, and allows object orientation and dynamic typing. Javascript's memory allocation also utilizes what is known as garbage collecting, which allocates the memory the programmer needs, use it, and release it when it is not needed anymore.

I primarily want to focus on how its scripting works as well as its memory allocation for lists and how I can use the memory I store in it in my websites. I also want to explore how Javascript can be used to improve making web platforms as a whole. For my program, I will create a small website using HTML, CSS, and Javascript. I will then build a Javascript program to script and store a library for this website with categories of my own choosing. I will also use Javascript to handle memory that would be necessary for this website, and what its pros and cons are. Primarily, I wish to look at its scripting and memory allocation, and what the best ways are of utilizing these features. By the Progress Report, I expect to have the overall website layout, as well as a general idea of what kind of scripting I will do for it. By the end of the semester, I expect to have a small website running on Javascript to test its features.