Discussion 9.1 JavaScript vs. TypeScript

Shane Hingtgen

2/27/23

Bellevue University

JavaScript was originally created to be used as a client side language. But as it grew in popularity developers also learned that it was useful for server-side as well. But it still wasn’t able to meet Object-Oriented programming (GeeksforGeeks, 2022)TypeScript was then made by their JavaScript team to fill this need for Object-oriented programming.

TypeScript has a variety of features. The code from TypeScript is turned into JavaScript by simply changing the file extension .js to ts. (GeeksforGeeks, 2022). TypeScript cant be interpreted as JavaScript so it has to be converted to JavaScript using a process called Trans-piled, which uses JavaScript code to convert it so browsers can read it. (GeeksforGeeks, 2022). TypeScript can be used anything, such as device, browsers or even operating systems. TypeScript will also have support for JavaScript libraries (GeeksforGeeks, 2022) to use currently JavaScript code or call the code from JavaScript (GeeksforGeeks, 2022)

The main differences between JavaScript and TypeScript is that TypeScript is “known as an Object-Oriented programming language where as JavaScript is a prototype based language.” (GeeksforGeeks, 2022) It will also support other interfaces that JavaScript isn’t able to.

The benefits of using TypeScript is that it will point out errors during development. (GeeksforGeeks, 2022) It also has features JavaScript does not have , like static typing that checks the correctness during compiling. Essentially TypeScript is JavaScript but with some more features.

A disadvantage of using TypeScript is that in order to compile the code, it may take some time to complete. (GeeksforGeeks, 2022)

References:

GeeksforGeeks. (2022, May 19). *Difference between TypeScript and JavaScript*. Retrieved February 27, 2023, from https://www.geeksforgeeks.org/difference-between-typescript-and-javascript/