



Research on Analysis of Java Script

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ABSTRACT

JavaScript is client side scripting language which is used in Front-end development and some one is use as solve coding Problem. There are Multiple techniques that reign in most dynamic features of language, It seems to be the programmers how utilize the language or their features. Here we study the dynamic nature of widely-used JavaScript.

1. Introduction

In starting javascript is developed for little web development. In present the demands JavaScript are increases day to day. The flexibility of the language and compact browser integration is key features, the inherent nature of the language makes code based on ECMAScript 3.

2. NEW - ERA OF JAVASCRIPT

JavaScript is flexible language which can be used to develop web server, mobile application and desktop apps. It's necessary to have knowledge of ES5 and ES2015. We are not able to use syntax from ES2015 when we debug in our browser console. In the documentation and example code of libraries, some of code we will discuss below, are written in ES2015. We take advantage that comes from the syntactic changes which is the future of JavaScript libraries, and we are pleased with the results thus far. We expand browser support for future ES language. if we enjoying features java script that is stabilized, we find babel-preset-stage-3 is best option for us due to it is more capabilities.

3. How to Use JavaScript

1. Lets open your page and make a directories name script. In the script folder, make a new text file called main.js, and save it.
2. Coming to index.html file, paste these code, before the </body> tag:

```
<script src="scripts/main.js"></script>
```
3. Same for CSS file [<link>](#). It uses the JavaScript page, so an effect on the HTML and CSS.
4. Submit code to the main.js file:

```
const myline = document.querySelector("h1");
```

```
myline.textContent = "Hello world!";
```

5. At last don't forget to save HTML and CSS file. Then run index.html in browser. You will see like this:



5. Features of JavaScript

Below are a few features of JavaScript based on general features, language use, and experimental features.



Scripting Language

JavaScript is a simple scripting language used for client-side processing. It is not used as a general-purpose language and is specially designed for web development, where multiple libraries are also used towards web applications.

Interpreter Based

The browser interprets its code, line by line and then runs. On the other hand, a compiled language is to be compiled into a byte-code then their code is executable.

Event Handling

It is an action in a system that communicates about said occurrence so that you can respond.

Light Weight

As we know that JavaScript is an interpreted language so its code does not need to be converted into byte code. Hence it becomes easy to execute. So it is light weight.

Case Sensitive

It is a very case-sensitive language. All keywords, variables, function names and other identifiers follow a capitalisation of letters. E.g.:

```
var hitNumber = 5
```

```
var hitnumber = 5
```

Here variables `hitNumber` and `hitnumber` are different variables because of the difference in the case.

6. Advantage of JavaScript

- JavaScript, gets executed on the client side to make the fast execution.
- In JavaScript, XMLHttpRequest is an object. Object is called through HTTP request to the server and server gives information.
- JavaScript is able to support all modern browsers.
- MNC companies help community by making projects which is important.
- JavaScript is deployed anywhere on the web.
- JavaScript supports many languages and use number of applications.
- There are multiple projects that provide help to developers to add JavaScript in their application.

7. Disadvantage of JavaScript

- Only through JavaScript we can't make a large web application we need some other tool like TypeScript.
- JavaScript is applicable for larger front-end projects. This is directly associated with jQuery library.
- The code of JavaScript can be visible to everyone.
- If any error occurs in the code then the browser can't run other code.
- The whole thing takes a long period of time so it increases the time of execution of the code.

8. Development Experience with JavaScript

The experience of JavaScript development is also efficient – thanks to the declarative approach, in many cases **the programmer just has to state the desired outcome, without determining the specific steps leading to it.** What's more, the components are reusable, which facilitates the whole programming process. That's why we can say that JavaScript provides great developer experience (DX).

9. The Future of JavaScript

The future of JavaScript seems to be a future-proof solution, backed by the engaged community of contributors and based on simple principles it doesn't require any advanced programming knowledge – front-end developers experienced with JavaScript can easily get to grips with this technology.

10. JavaScript Developer Required Soft Skills

Because the JavaScript developer's work spans the whole app production process, **they need teamwork skills and the ability to explain complex matters to non-tech people**, because they will inevitably work closely with testers, web designers, product owners and project managers.

They should be also able to translate business needs into technical specifications, read and prepare business documentation, and use graphic designs to create templates. React developers are required to collaborate cross-functionally to develop a product that meets the business project requirements.

The project and time management skills, as well as attention to details, are also a must-have. A React developer should also be eager to learn new technologies and skills, which will be inevitable in their job.

11. Every Project Needs Different Set of Skills

As a conclusion to this part, we'd like to stress out one important thing: our list of skills and competences required of React.js developers shouldn't be an only and definite guide when assessing a particular developer for a developer project. For example, a project may not need a use of AngularJS – our list is made to be a handy, supportive material.

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