**Introduction**

Here, we’re going to study implementation of Data Structure with JavaScript.

Data Structure is a systematic way to organize data in order to use it efficiently.  
JavaScript has been used more and more as a server-side computer programming language. Although it is a server-side scripting language.

Data Structure is specialized format for storing and organizing data.

* It required data can be searched and spotted easily.
* It help in analyzing memory usage of the program.
* It provide less time complexity.

**Terminology:-**

**Data:** Data is nothing but the values or set of values.

**Data Item:** Data Item refers to the single unit of values. Whatever the values you have will

**Group Items:**

**Elementary Items:**

**Attribute and Entity:**

**Entity Set:**

**Field:**

**Record:**

**File:**

**JavaScript Run Time Environment:-**

**JavaScript Shells:**A JavaScript shell allows you to quickly test snippets of JavaScript code without having to reload a web page. They are extremely useful for developing and debugging code.

[**Standalone JavaScript shells**](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Shells#standalone_javascript_shells)

The following JavaScript shells are stand-alone environments, like Perl or Python.

* Node.js - Node.js is a platform for easily building fast, scalable network applications.
* **JSDB -** JavaScript for Databases, A standalone JavaScript shell, with compiled binaries for Windows, Mac, and Linux.
* GraalJS - A high performance implementation of the JavaScript programming language. Built on the GraalVM by Oracle Labs.
* ShellJS - Portable Unix shell commands for Node.js

So JavaScript has already been proven as a programming language, that only run inside a web browser.   
In the past few year, their has been improvement in JavaScript run time environment that can now be run through a desktop similarly through a server.