**MERN Stack - An Overview -** [Marcelo Galhego](https://medium.com/@marcelo.galhego?source=post_page-----c0d5f6d652b0--------------------------------) Aug 15, 2022

The MERN stack has made development easier than ever before as we can use single language (JavaScript) for both client side and server-side application development.

The four open-source components in the MERN stack include MongoDB, Express, React and Node.JS which are all open-source technologies that you can use to build your next full-stack application.

**What is MERN Stack?**

MERN stack is a JavaScript Stack that is used for easier and faster deployment of full-stack web applications. The four open-source components in the MERN stack include MongoDB, Express, React and Node.JS.

The acronym “MERN” stands for MongoDB, Express, React and Node.JS.

**MongoDB**

MongoDB is a free and open-source cross-platform document database. It is a NoSQL database system that stores data as binary JSON format which makes data integration very simple & easy.

MongoDB stores data in documents and allows dynamic schema to be defined for those documents.

The schema of a document can be changed by adding, modifying or removing fields from the document without any downtime on production systems because it is not stored as separate tables or rows but as an integrated unit called “document” in MongoDB.

**Express**

Express is one of the most popular Node Framework which is built on top of Node.js and follows the MVC (Model View Controller) Architecture pattern.

As it follows MVC, it can be used to create web applications with ease.

Express follows a very simple and easy-to-learn approach for building RESTful APIs in no time at all, which makes it an excellent choice for beginners in Node development as well as experienced developers who want to quickly build scalable applications using familiar technologies like JSX or ES6 modules

**React**

React, developed by Facebook, is an open-source frontend library for building user interfaces or UI components.

It primarily deals with View part of the application and hence can be used to build Single Page Applications (SPAs) where all the content is served to user at once instead of loading multiple pages over different HTTP calls.

React has extremely fast rendering speed, state management that allows you to make changes without reloading entire page and helps you write less code as well!

**Node.JS**

Node.JS is an open-source platform, which basically provides an event driven I/O API over Google’s V8 JavaScript engine.

It also uses an event loop and non-blocking I/O model which makes it very lightweight and efficient. In short, NodeJS is a server-side JavaScript framework that is used to handle requests from the client-side applications.

You can use Node.JS for developing web servers or TCP servers as well.

**Conclusion**

The MERN stack has made development easier than ever before as we can use single language (JavaScript) for both client side and server side application development.