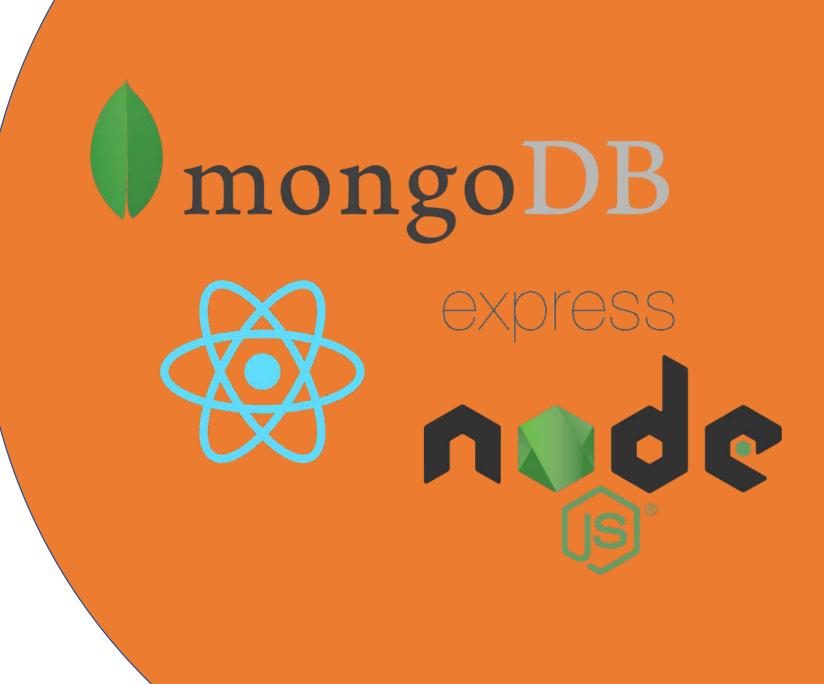
M



What is MERN

MERN is collective name of software stack written in JavaScript for development and deployment of Full Stack Web Application & Software.

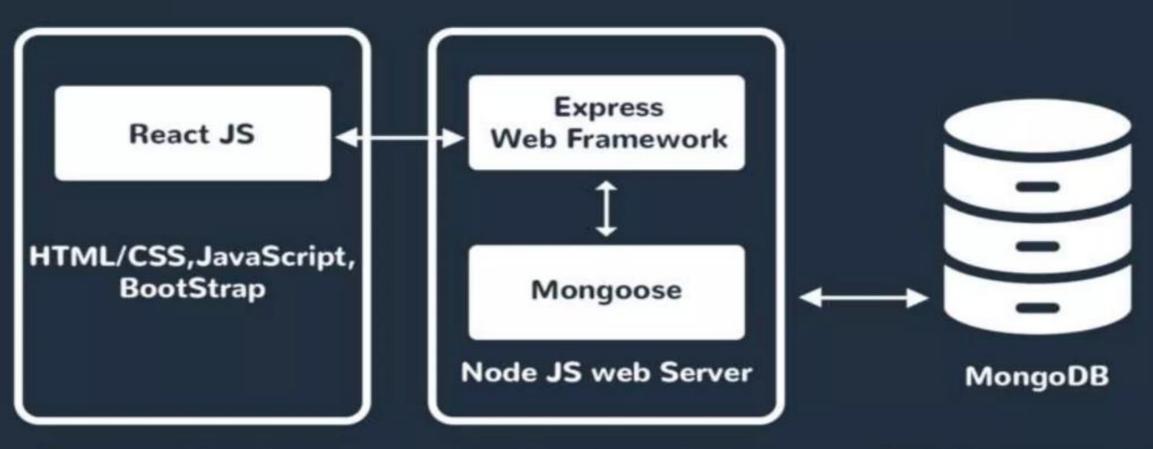
MERN comprises of 4 technology stack depending on the use they are classified as follow:



Prerequisites for MERN stack

- HTML (basics)
- CSS (basics)
- JavaScript (basics)
- Knowledge of database.

MERN Stack Development



Front-end Developer

Back-end Developer

Database Managment

Let's Break it Down..!

We'll understand each software stack one by one. Starting with MongoDB:



- Easy to Learn.
- It is one of the most famous NOSQL(Not Only SQL) Database.
- It provide schema(i.e JSON format Data)save time for getting frustrated as newbie working with tables in SQL.
- Occuments containing key-value pairs are the basic units of data in MongoDB.

ExpressJS

Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications.

It provides easy routing of requests based on HTTP methods and URLs.

Installation of ExpressJS:

```
$ npm install express --save
```

<u>https://expressjs.com/</u> for full reference.

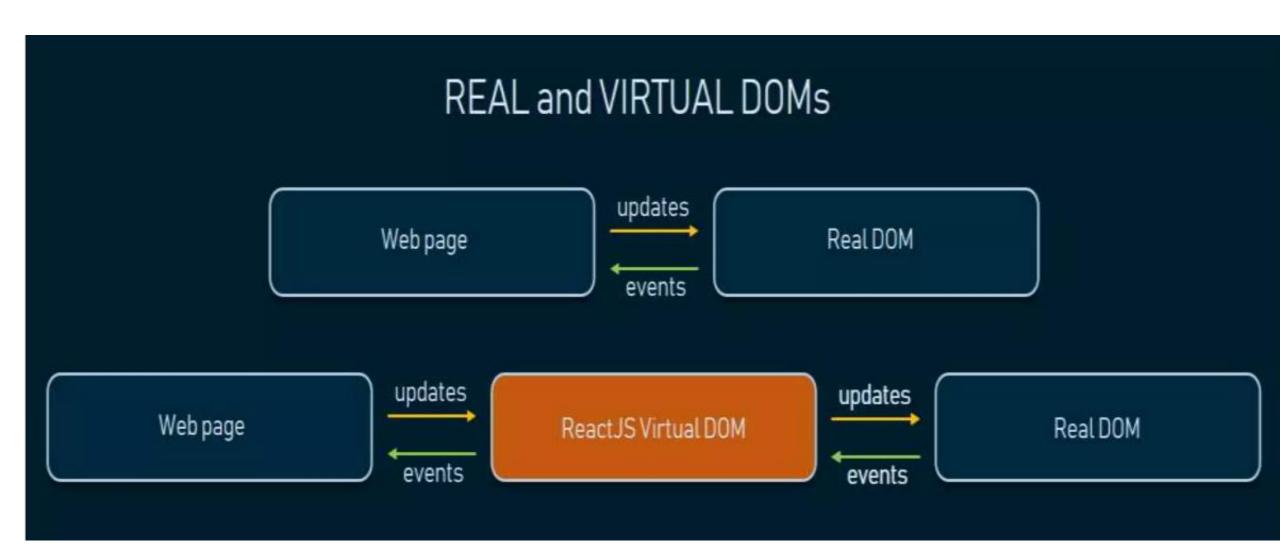
React

- A JavaScript library for building user interfaces for web and mobile applications.
- React is used to build single-page applications.
- React allows us to create reusable UI components.
- React-router to handle the front-end routing.
- React was created by Jordan Walke, a Software Engineer at Facebook.

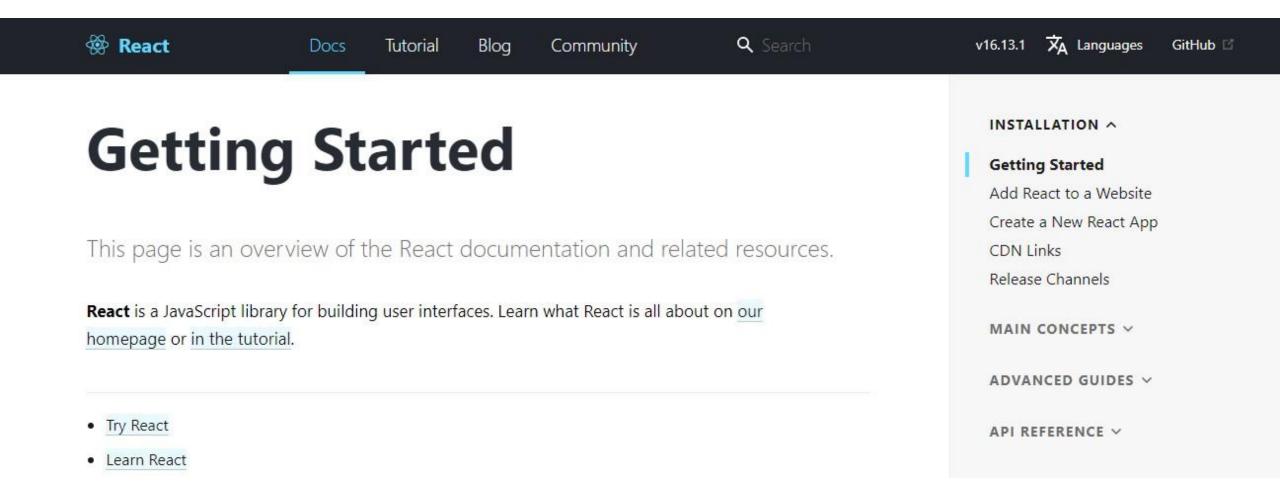
How does React work?

- Instead of manipulating the browser's DOM directly, React creates a Virtual DOM in memory, where it does all the necessary manipulating, before making the changes in the browser DOM.
- React finds out what changes have been made, and changes only what needs to be changed.

How does React DOM work?



Installation of React



For reference : https://reactjs.org/docs/getting-started.html

NodeJS

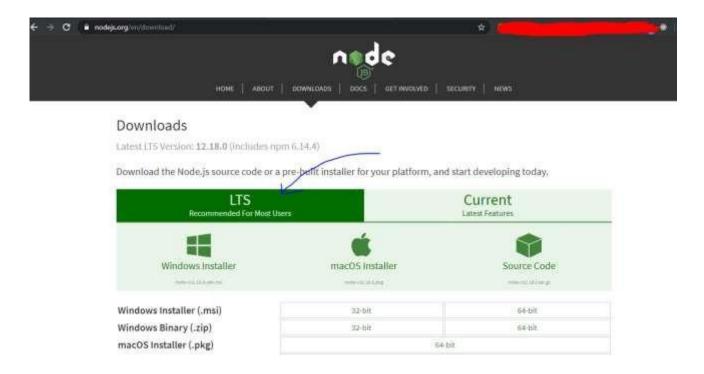


- NodeJS is basically used to develop and interact with server-side programs.
- NodeJS is open-source and supports cross-platform development.
- NodeJS uses Event-Driven architecture i.e The network connection between apps should be managed by event loop and worker pool.



For reference take 5 min look at the Doc : https://nodejs.org/en/docs/

NodeJS



After installation just check the version by: node –v in cmd to ensure the version and complete installation



Download Reference : https://nodejs.org/en/download/

>>-Conclusión-->



Web Development changes drastically over period of time. The website needed in 2010 is different from website needed in 2020. Nowadays, Website are getting dynamics that are meant to serve all functionality i.e fetching data, retrieving data ,updating, discussion , etc in the meantime.

Learning a single language(JAVASCRIPT) and further opting MERN serve all the things and the stacks are In Demand in today's job market.

So, Why to wait .. Learn today.!