

# MERN Stack Assignment 4

Que1. What exactly is a MERN Stack, and What does it imply?

Ans =>

MERN stands for MongoDB, Express, React, Node, after the four key technology that make up the stack.

M => MongoDB (document database)

E => Express.js (Node.js Framework)

R => React.js (a client-side JS framework)

N => Node.js (JS web Server)

Express and Node makes up the middle (application) tier. Express.js is a server-side web framework, and Node.js the popular and powerful JS server platform.

Regardless of which variant we choose, ME(R/V/A) N is the ideal approach to working with JS and JSON.

Que2.What exactly is REACT JS, and How Does it Works?

Ans. =>

React JS is a very popular JavaScript library, it is a declarative, efficient, and flexible JS library for building user interfaces. It lets us compose complex UIs from small and isolated pieces of code called components.

As we know that the real DOM is slow so make it faster, react implements a virtual DOM that is a DOM tree representation in JavaScript. So, when it needs to read or write to the DOM, it will use virtual representation of it. Then The virtual DOM will try to find the most efficient way to update the browser's DOM.

React elements are plain object and are cheap to create. React DOM takes care of updating the DOM to match the React elements. The reason for this is that JavaScript is very fast and it's worth keeping a DOM tree in it to speed up its manipulation. Although React was Conceived to be used in the browser, because of its design it can also be used in the server with Node JS.

Que3.How Does React JS help You?

Ans=>

React is a Declarative, efficient, and flexible JavaScript library for building user interfaces. It lets us compose complex UIs from small and isolated pieces of code called “components”, and it creates a virtual DOM that is faster than real DOM too.

Que4.What are MongoDB’s most important features?

Ans=>

There are MongoDB’s top five technical features =>

- Ad-hoc queries for optimized, real-time analytics
- Indexing appropriately for better query executions
- Replication for better data availability and stability
- Sharding
- Load Balancing

Que5.What is the difference between REACT JS and Angular JS?

Ans =>

Both of these frameworks are here to stay with today’s technology ecosystem fuelling with Mobile apps and Web Apps. With the rising popularity of ReactJS continues to be one of the top JavaScript Framework while ReactJS is yet to take the test of the time to handle websites that are of Medium to High complexity. Prompt rendering and the presence of jsx is making ReactJS, the resultant workflow stack as a highly impactful JavaScript framework.