**Why Combine React with NodeJS For Full-Stack Web App Development -** [Emma Cuthbert](https://medium.com/@emmacuthbert?source=post_page-----e7c29030f67--------------------------------) Aug 18, 2022

When it comes to building a full-stack web app from scratch, it can be hard to understand how to organize your code in the most effective way possible. If you have ever used such progressive web apps as Netflix or Prime Videos, then you surely know how their simple interface is wrapped in complex features and empowered by their strong backend.

While developing a web app like Netflix, your database should do one thing, your routing system should do another, and your business logic should take care of some aspect of your application all at once — but how does that all come together?

So, in a nutshell, developing a web app is all about creating a beautiful frontend that keeps your users engaged with an app. And the second thing is developing a strong backend that makes your app perform smoothly.

In this article, we’ll look at how to build an entire web app from scratch using React and Node. Js — two powerful tools in JavaScript. But before you begin reading this blog, here are a few questions that stick in your mind:

* *Why React and NodeJS is a Popular Choice For Developing Frontend and Backend?  
  - React and NodeJS: Understanding its baseline, Pros and Use Cases*
* *Can We Use NodeJS With React for Web App Development?*
* *Is Using React and NodeJS a Deadly Combination to Create a Full-Stack Web App?*
* *How Can This Combination of NodeJS and React.Js Benefit Such Businesses?*
* *Conclusion: Developing a Powerful Full-Stack App With React.js and NodeJS*

Let’s dig deep into the details of each point…

***Why React and NodeJS is a Popular Choice For Developing Frontend and Backend?***

***Conclusion:****JavaScript library React, which is typically used on the front end, can create attractive user interfaces. In contrast, NodeJS, which is often used on the server, can create scalable apps. Combining React and NodeJS will be extremely beneficial for developers building full-stack web applications.*

**React and NodeJS: Understanding its baseline, Pros and Use Cases**

**An Introduction to React.JS (Front-end JS Library)**

ReactJS is one of the most popular front-end JavaScript libraries that enables developers to build large web apps with data-driven, dynamic views by creating reusable UI elements. Furthermore, it features smooth responsiveness and functionality across multiple devices.

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[Image Source](https://www.statista.com/statistics/1124699/worldwide-developer-survey-most-used-frameworks-web/)

According to Statista, React.js is one of the most popular yet widely used web frameworks that allows developers to design highly convincing and scalable web apps without having knowledge of complex frameworks or programming languages. Since React.js is trusted by WhatsApp, Instagram, Netflix, Airbnb, and more.

***Key Highlights of ReactJS***

* React is an SEO-friendly front-end JS framework.
* It comes with detailed documentation and tutorials that help beginners jumpstart the project.
* It enhances the app performance as it uses Virtual DOM.
* It offers support for several components for building web apps and enhances the dynamic web app development process.

***Key Features of React.js***

* It is far easier to access and maintain
* Ensure excellent app performance
* Offer a stable code
* Ideal for developing web app front-end

***Use Cases of React.js***

* Building Single Page Apps (SPAs)
* Creating seamless user interfaces
* Web browsing apps
* Ideal for building large social media sites
* Dynamic libraries

To make comprehensive use of React.js in web app development, it is worth [**hiring a React developer**](https://www.appsdevpro.com/hire-developers/hire-reactjs-developers.html) working for the leading React web development company. Leveraging the expertise and experience of developing an app with React, they can help you create a successful web app.

**An Introduction to NodeJS (Back-end JS Library)**

NodeJS is created with Google’s V8 JavaScript engine. It’s an open-source programming language that can run on multiple platforms and significantly reduce development time. There is no need for duplication when using the JS language and modules with the help of NodeJS.

*“*[*According to statistics*](https://webtribunal.net/blog/node-js-stats/#gref)*, out of over 63,000 checked websites in the US, more than 37,000 websites are running on NodeJS.”*

If you are wondering why NodeJS is widely used for the backend development of the web app and why you should hire a Node app developer for the app development? Before you trust this data, here we are portraying to you the valid reasons and advantages of NodeJS:

***Advantages of NodeJS***

* It can be used for both server-side and client-side applications.
* Based on Chrome’s V8 JS engine, Node can improve your app’s performance by 50%.
* Non-blocking I/O operations back up its runtime environment, so it enables efficient code execution.
* Node provides better scalability than other JS servers. It supports scaling both vertically and horizontally.

***Features of NodeJS***

* Non-blocking, asynchronous, and dependent on event occurrences
* Scalable yet unthreaded
* It’s better to fast-track the development process.
* Compatibility with different devices
* Fast data streaming with no buffering
* Speedy code development
* Based on JavaScript

***Use Cases of NodeJS***

* Real-time web applications
* Streaming of data
* SPAs (Single Page Applications) that are complex
* Proxies on the server

NodeJS is one of the strongest JavaScript libraries that can help you build a powerful backend. You can [**hire NodeJS developers**](https://www.appsdevpro.com/hire-developers/hire-nodejs-developers.html) at an excellent NodeJS web development firm to make use of NodeJS’s key features and functionalities.

**Is It Possible to Use NodeJS With React for Web App Development?**

That’s correct. NodeJS facilitates the creation of back-end RESTful APIs that are scalable and fast. On the other hand, React is a front-end library that produces interactive user interfaces. With both tools, you can create complex and scalable web apps with little effort. Hence, using React.js with NodeJS for the full stack web app development is a deadly combination.

With NPM (Node Package Manager), you’re able to install any package with the command-line interface (CLI). In addition, Node uses Webpack and other modules to create an easily compilable single file from a React application.

Raise your hand if you like Node with React.js!

**Is Using React and NodeJS a Deadly Combination to Create a Full-Stack Web App?**

Web development by combining React and Node JS integration is more efficient and saves time. It also lets business owners work on other, more important parts of their business.

*Let’s look at the reasons why you might want to use full-stack web development.*

* **Increases Project Scalability**

When it comes to building complex projects, scalability is one of the most pressing concerns for businesses. When using NodeJS and React together by [**hiring an app developer**](https://www.appsdevpro.com/hire-developers.html), they can build interactive and large data-driven web apps that work on a range of devices.

* **MERN Stack Combo**

The MERN Stack is made up of MongoDB, Express, React, and NodeJS. There is no better combination to provide a website with its unique dimension. The MERN Stack works with NodeJS and React.js, so Node and React can be combined for web application development.

* **Real-Time Data Management in Apps**

NodeJS is a good choice if you are building a streaming data application or handling real-time data. This type of app requires an ongoing server connection, and NodeJS provides constant support for your app.

* **Faster development**

Combining React with Node can generate a high return on investment and save you both money and time since these technologies provide an ideal platform for building rapid, effective, and easy-to-maintain websites.

* **Single Page Applications (SPA)**

Are you looking for a single-page app with asynchronous data loading? If so, React with a Node back-end is the way to go, as it enables you to build a lightweight back-end model with callback functions.

* **Single Language For Both Front and Back-end Development of Web App**

With the use of Node and React, developers do not have to learn various complex languages such as Python or Ruby. They can just use Node for the server side of development and React for the front end. In addition to saving resources, money, and time, this recycling reduces waste.

* **Excessive Use of JavaScript**

Node with React provides JavaScript for both the front and back end, and this provides more freedom and flexibility to create websites and web apps. Developers can use JavaScript as a single language for the entire app development process.

*In a nutshell: Should you decide to use NodeJS and React to build a web application, you should hire NodeJS developers as well as React developers. In this way, you will effectively use both technologies, thereby forming excellent web apps for your business.*

**How Can This Combination of NodeJS and React.Js Benefit Such Businesses?**

To survive in today’s competitive market, businesses must target their customers and provide them with a solution that offers a great user experience. Fortunately, React with NodeJS provides a platform that lets you build powerful web apps quickly and maintain a high level of performance across a number of devices.

For those who wish to build modern, responsive web apps that can handle large amounts of data, NodeJS and React are great options. Why not give it a try?

The simplicity of React’s design model allows for the creation of reusable components, while the event-driven architecture of NodeJS makes it possible to handle large volumes of traffic at a faster rate.

All-in-all choosing the deadly combination for developing full-stack web apps will be a worthwhile decision for businesses. They can easily save time and money using this NodeJS and React combination and be able to add a competitive edge to their business.

**Conclusion: Developing a Powerful Full-Stack App With React and NodeJS**

At the end of this blog, it is fair enough to say that these two technologies can work together well. NodeJS is a server-side platform that provides data handling at an efficient speed and can be used to build web servers written in JavaScript.

React is a front-end framework that helps developers create interfaces from components using Javascript. By [**hiring a web app developer**](https://www.appsdevpro.com/hire-developers/hire-web-app-developers.html), you can seamlessly combine these JS libraries to create a powerful website.

The robust capabilities of these frameworks can help you build an app without the use of troublesome and time-consuming other frameworks. So if you have finally convenience with the idea and looking for an expert team of developers then here you can drop a query below