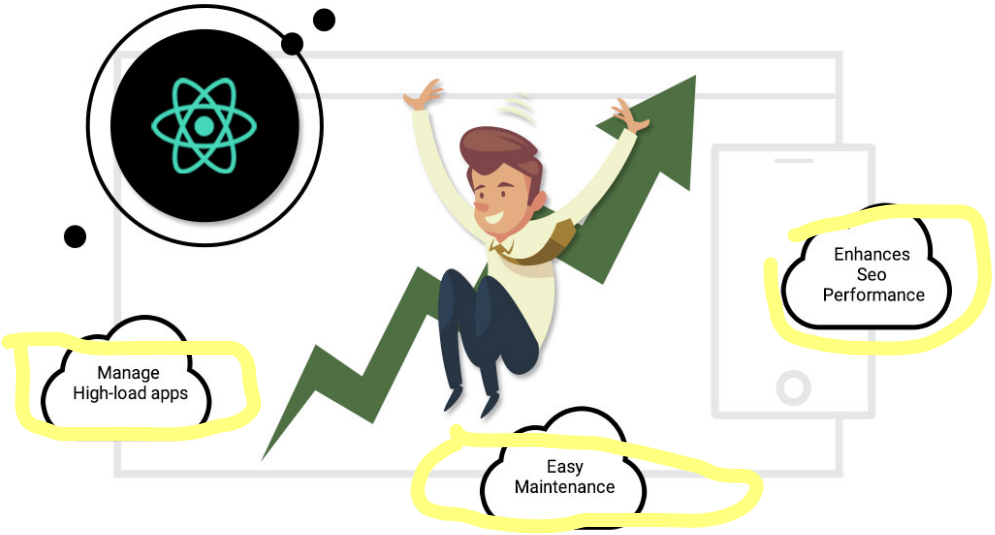
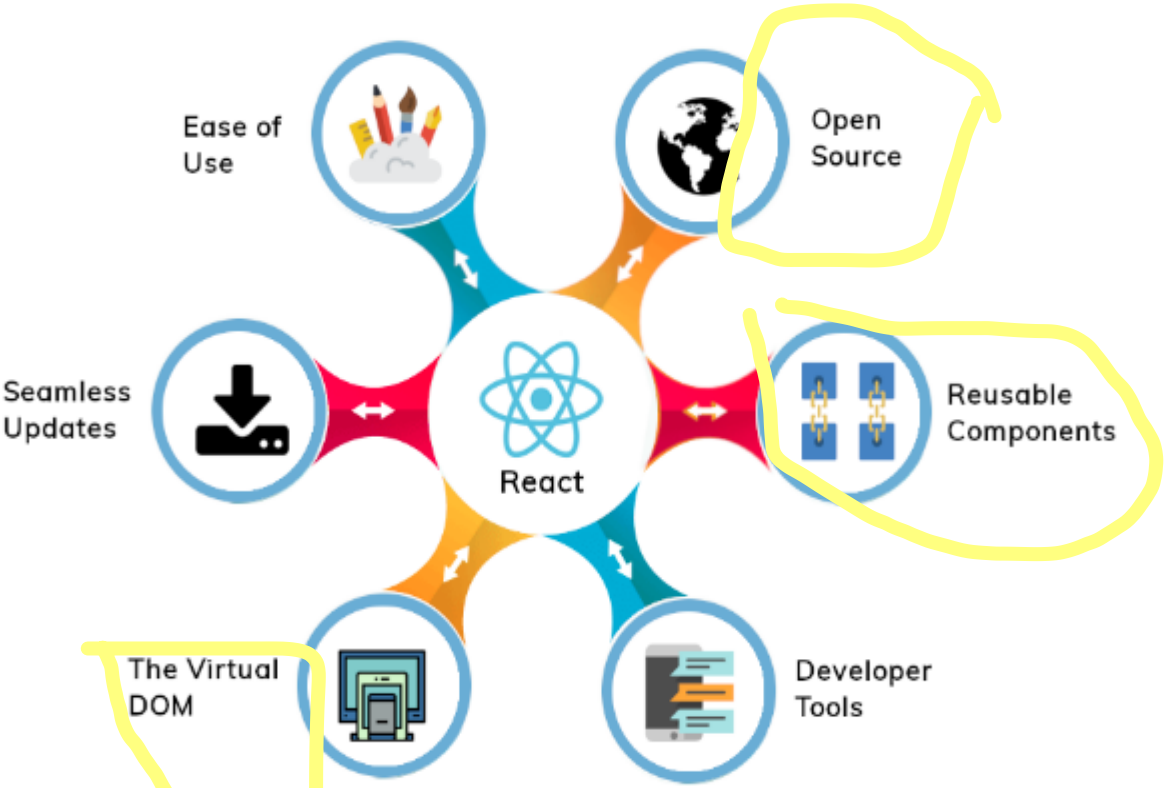
Benefits Of Using React Js





Benefits of Using React Js in Web App.

1. It Facilitates the overall Process of writing Components.

JSX is an optional syntax extension to JavaScript that makes writing your components much more accessible. It accepts HTML quoting and makes a subcomponent rendering easier. It is a set of shortcuts for writing React.createElement with a few rules to make your source cleaner and more straightforward.

While JSX is often a matter of dispute, it can help build **high-volume apps** or custom components, excluding typos in large tree structures and making it easier to convert from HTML mockups to ReactElement trees. Besides that, it provides React developers with **informative warnings** and **error messages** and also helps to prevent code injections.

2. It boosts productivity and facilitates further maintenance.

Often updates become a headache because the application has a complex logic, and changes in one component can affect others. To solve the issue, Facebook has supplemented React with the ability to reuse system components, and developers define it as one of the best features of React js.

Reuse of assets is well-known among designers, who typically reemploy the same digital objects. You can start with the finest components (checkbox, button, etc.), move to wrapper components comprised of these tiny elements and move forward until the primary, root component. All components have their internal logic, which makes it easier to manipulate and define them. Such an approach ensures a consistent app look and facilitates codebase maintenance and growth.

3. It ensures faster rendering.

Building a high load application, it is essential to consider how the structure will impact the overall app performance. Even the latest platforms and engines can't ensure the absence of annoying bottlenecks because **DOM** (document object model) is tree-structured, and even small changes at the upper layer can cause awful ripples to the interface. To solve the issue, the Facebook development team has introduced **Virtual DOM** – currently, one of the benefits of using React for heavy-loaded and dynamic software solutions.

As the name suggests, it is a virtual representation of the document object model, so **all the changes are applied to the virtual DOM first. Then, using the diff algorithm, the minimal scope of necessary DOM operations is calculated**. Finally, the real DOM tree is updated accordingly, ensuring minimum time consumed. This method guarantees a better user experience and higher app performance.

4. It guarantees stable code.

To make sure that even small changes in the child structures won't affect their parents, ReactJS uses only downward data flow. Changing an object, developers just modify its state, make changes, and, after that, only particular components will be updated. This structure of data binding ensures code stability and continuous app performance.

5. It is SEO friendly

Another React js benefit is its ability to deal with a common search engine failure to read JavaScript-heavy apps. As a solution, React can run on the server, rendering and returning the virtual DOM to the browser as a regular webpage.

Though some improvements have taken place at Google, we shouldn't forget about other search engine platforms, like Yahoo, Bing, or Baidu. Moreover, we need to take into account various microformat web use-cases, like Open Graph, Twitter Cards, etc., because Facebook, Slack, or Twitter won't execute your JS and mainly depend on SSR.

6. It comes with a helpful developer toolset.

Learning new technologies and using them in the next project can be fun, but only if they can be applied in the development environment. It means that a framework or library should come with proper tooling for efficient performance. Among Reactjs advantages are its coverage of debugging and design tools.

React Developer Tools is a browser extension available for both Chrome and Firefox. It enables developers to observe reactive component hierarchies, discover child and parent components, and inspect their current state and props.

7. It is backed by a strong community.

Initially, React library was created for internal use and later shared with the entire world. Currently, it is supported by **Facebook** and **Instagram** engineering teams, plus external experts. For example, React **GitHub** repository numbers over 1100 contributors, while users can ask their questions on **Stack Overflow**.