



Goodbye CDNs!



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Goodbye CDNs



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Goodbye CDNs!



- **Create React App** in a comfortable environment for **React** and is the **correct** way to build an application in **React**.
- It sets up your **development environment** so that
 - you can use the latest JavaScript features,
 - provides a nice developer experience, and
 - optimizes your app for production.
- You'll need to have **Node** $\geq 14.0.0$ and **npm** ≥ 5.2 on your machine.
- **Check your version** of Node and npm !

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Create React App



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Create React App

Create React App is a comfortable environment for **learning React**, and is the best way to start building a **new single-page application** in React.

It sets up your development environment so that you can use the latest JavaScript features, provides a nice developer experience, and optimizes your app for production. You'll need to have **Node $\geq 14.0.0$** and **npm ≥ 5.6** on your machine. To create a project, run:

```
npx create-react-app my-app
cd my-app
npm start
```

Note

npx: on the first line is not a typo — it's a **package runner tool** that comes with npm 5.2+.

Create React App doesn't handle backend logic or databases: it just creates a frontend build

INSTALLATION ^

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Create React App



```

D:\ReactTraining>npm create-react-app myapp

Creating a new React app in D:\ReactTraining\myapp.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

[.....] / extract:es-abstract: sill extract es-abstract@1.19.1 extracted to D:\ReactTraining\myapp\node_m
  
```

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Create React App



```

Command Prompt

pid: 12312,
stdout: null,
stderr: null
}
Removing .git directory...

Success! Created myapp at D:\ReactTraining\myapp
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd myapp
  npm start

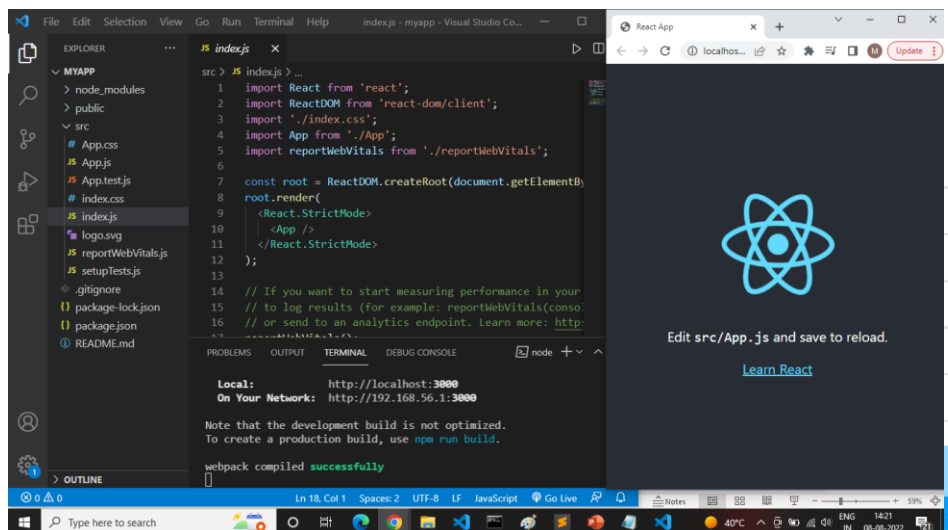
Happy hacking!

D:\ReactTraining>
  
```

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Create React App





Update – React >= 18

```

1 // UPDATE - New React 18 'createRoot' API
2 import React from 'react'
3 import ReactDOM from 'react-dom/client'
4
5 const navbar = (
6   <nav>
7     <h1>Cafe Max</h1>
8     <ul>
9       <li>Menu</li>
10      <li>About</li>
11      <li>Contact</li>
12    </ul>
13  </nav>
14 )
15
16 // ReactDOM.render
17 // navbar,
18 // document.getElementById("root")
19 // )
20
21 ReactDOM.createRoot(document.getElementById("root")).render(navbar)
  
```

React App

Cafe Max

- Menu
- About
- Contact

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Using append() method

```

1 const page = (
2   <div>
3     <h1>My awesome website in React</h1>
4     <h3>Reasons I love React</h3>
5     <ol>
6       <li>It's composable</li>
7       <li>It's declarative</li>
8       <li>It's a hireable skill</li>
9       <li>It's actively maintained by skilled people</li>
10    </ol>
11  </div>
12 )
13
14 document.getElementById("root").append(page)
15
  
```

React App

[object Object]

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Using JSON.stringify



The screenshot shows a Visual Studio Code editor with a file named `index.js`. The code defines a `page` object with HTML elements and uses `JSON.stringify` to convert it to a string. The browser window shows the rendered HTML output.

```

1  const page = {
2    <div>
3      <h1>My awesome website in React</h1>
4      <h3>Reasons I love React</h3>
5      <ol>
6        <li>It's composable</li>
7        <li>It's declarative</li>
8        <li>It's a hireable skill</li>
9        <li>It's actively maintained by skilled people</li>
10     </ol>
11   </div>
12 }
13
14 document.getElementById("root").append(JSON.stringify(page))
15

```

The browser window shows the rendered HTML output, which is a stringified JSON object:

```

{"type":"div","key":null,"ref":null,"props":{"children":[{"type":"h1","key":null,"ref":null,"props":{"children":"My awesome website in React"},"_owner":null,"_store":{}},"type":"h3","key":null,"ref":null,"props":{"children":"Reasons I love React"},"_owner":null,"_store":{}},"type":"ol","key":null,"ref":null,"props":{"children":[{"type":"li","key":null,"ref":null,"props":{"children":"It's composable"},"_owner":null,"_store":{}},"type":"li","key":null,"ref":null,"props":{"children":"It's declarative"},"_owner":null,"_store":{}},"type":"li","key":null,"ref":null,"props":{"children":"It's a hireable skill"},"_owner":null,"_store":{}},"type":"li","key":null,"ref":null,"props":{"children":"It's actively maintained by skilled people"},"_owner":null,"_store":{}}]}]},"_owner":null,"_store":{}}

```

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