

# REACT JS

## Create-React-App

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Writing React code inside a HTML file and linking to React and Babel libraries is fine for learning purposes.

But for actual production use, a JS build which is an output of minification, transpilation, linting etc. is needed.

Webpack is a module bundler which is most frequently used with React.

But learning and configuring Webpack is not very easy.

So the React team has come up with a utility called **create react app**.

Create React App is the best way to start building a new React SPA.

It sets up the development environment so that one can use the latest ES6/7 features & JSX, provides a nice developer experience, and optimizes the app for production.

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

It uses build tools like Babel and Webpack under the hood, but works with zero configuration.

No need to install or configure tools like Webpack or Babel.

They are preconfigured and hidden so that one can focus on React code.

# Create React App is divided into two packages:

- `create-react-app` is a command-line utility that is used to create new projects. It has to be installed globally.
- `react-scripts` is a development dependency in the generated projects.

When create-react-app is run, it always creates the project with the latest version of react-scripts.

So one will get all the new features and improvements in the newly created apps automatically.



# INSTALL & RUN

```
npm install -g create-react-app
```

```
create-react-app my-app
```

```
cd my-app
```

```
npm start
```

Put any JS , CSS files and image files inside `src` folder, otherwise Webpack won't see them.

Only files inside `public` folder can be used from `public/index.html`.

Delete all files unwanted for your project.

```
my-app
├── README.md
├── node_modules
├── package.json
├── .gitignore
├── public
│   ├── favicon.ico
│   ├── index.html
│   └── manifest.json
└── src
    ├── App.css
    ├── App.js
    ├── App.test.js
    ├── index.css
    ├── index.js
    ├── logo.svg
    └── registerServiceWorker.js
```

`public/index.html`:  
Page template.

`src/index.js`:  
JS entry point.

When code is ready to be deployed to production, running `npm run build` will create an optimized build of the app in the `build` folder.

# NPM COMMANDS

## **npm start**

Runs the app in the development mode.

`http://localhost:3000` will be automatically opened in the browser.

The page will reload if and when edits are made!!!

Lint errors are shown in the browser console.

# NPM COMMANDS

## **npm test**

Launches the test runner in the interactive watch mode.

# NPM COMMANDS

## **npm run build**

Builds the app for production in the build folder.

Optimizes the build for best performance.

**The app is ready to be deployed!**

# END OF CHAPTER

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# APPENDIX