

Introduction to ReactJS

Part 1

Overview

- Basic SPA concepts
- What is ReactJS?
- Nodejs and NPM-Node Package Manager
- Create a React App



Basic Concepts

SPA - Single Page Applications



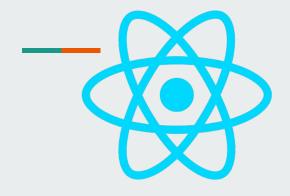
SPAs are normal web application or multi-page website which interacts with the user by dynamically rewriting the content of the current page rather than loading entirely new pages from a server.





Source: https://kriesi.at/wp-content/uploads/2015/01/multi-vs-single.png

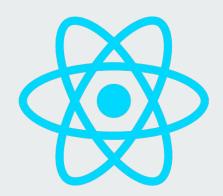




ReactJS -> SPA

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What is ReactJS?



React is JavaScript library that lets you create complex UIs from small and isolated pieces of code called "components".

ReactJS - Makeup



- Components
- Props
- States

Prerequisite for ReactJS

- HTML & CSS
- Basic knowledge of JS
- Node.js and npm installation.

Managing third-party libraries and packages

Node.js

Node.js is a javascript runtime environment that allows execution of javascript codes directly on a computer even outside the browser.

Node.js can be downloaded and installed from: https://nodejs.org

Package Management - NPM



The classic Problems

- Manually download, extract and install packages
- Manually update packages
- Manually install package dependencies if any

Package managers are designed to eliminate the need for manual installs and updates.

Installing package managers - Yarn



Node.js has a package manager called node package manager -npm. This package manager helps us to manage third party packages.

There is also another package manager called yarn(<u>yarnpkg.com</u>) which we will be using.

npm install --global yarn



Create [a] React App - CRA

Create React App with Yarn

yarn create react-app my-app

Now let's practise some ReactJS!

EXERCISE 1: INSTRUCTIONS

- 1. Download and install node.js from nodejs.org
- 2. Create a new Folder and name it reactjs-practice
- 3. Open the folder
- 4. Hold shift on the keyboard and right click an empty space in the folder
- 5. Select "open command prompt here" on the menu to start cmd
- 6. Run the command:
- 7. Wait for yarn to install globally
- 8. Run yarn create react-app my-app
- 9. Wait for the process to complete

voila!! You created your first reactjs app

EXERCISE 2: INSTRUCTIONS

Create another reactjs app

Thanks!

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