

Intro to React.js

2/27/2019

Presented by: Hassan Yakefujiang,
Web Development at VT



What is React?

React is a Javascript library created by Facebook and is used for building user interfaces (UIs) and front-end applications

React is often called a framework because of its behavior and capabilities

React is the most popular framework in the industry (for now)

Why use it?

- Makes front-end JavaScript much easier
- Uses self contained, independent components with their own state
- Much more interactive UIs
- Virtual DOM
- JSX - Easily incorporate JS in markup
- Easy to work with teams

What should you know before learning React?

JavaScript Fundamentals (Objects, Arrays, Conditionals, etc)

It may help to learn these first

- Classes
- Destructuring
- High Order Array Methods - forEach, map, filter
- Arrow Functions
- Fetch API & Promises

Simple Todo-List..

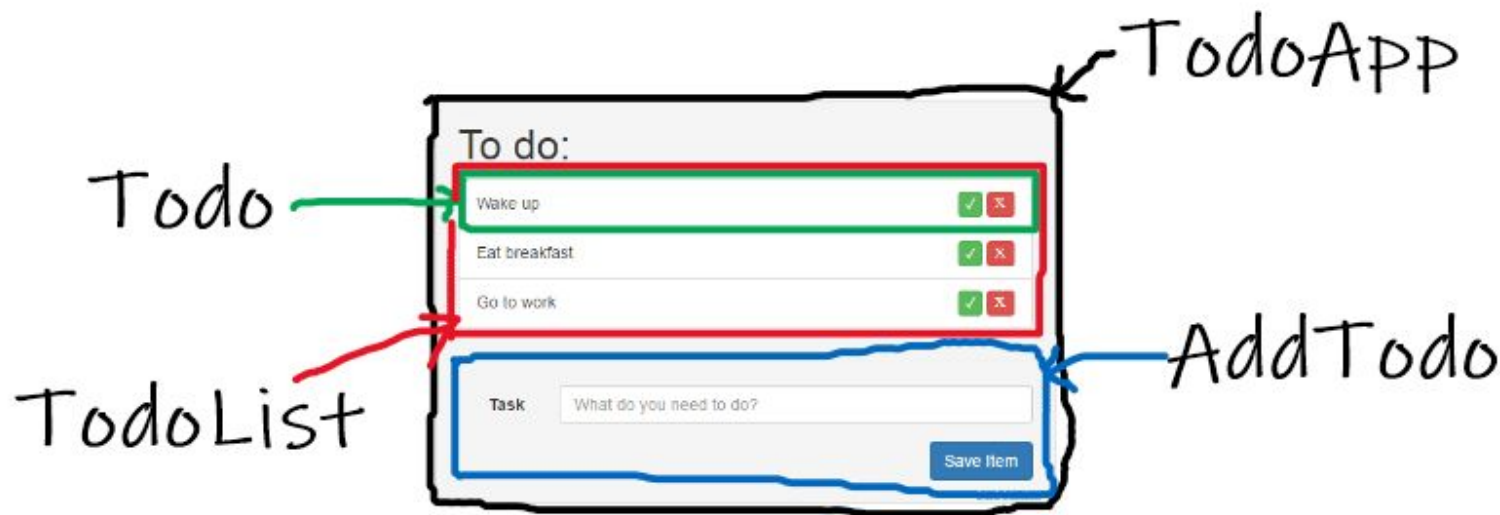
To do:

Wake up	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Eat breakfast	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Go to work	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Task

Save Item

Thinking in Components



React State

- Components can have state which is an object that determines how that component renders and behaves
- We can also have “*application level*” state by using a state manager like **Redux** or Reacts own **context API**

```
const state = {  
  title: 'xxx',  
  body: 'xxx',  
  isFeatured: true  
};
```

Create-React-App

- CLI Tool for creating React applications
- Comes bundled with a dev server with auto reload
- “npm run build” will compile all your code to something that the browser can read

Anatomy of a Component

```
Class Post extends React.Component {  
  state = {  
    title: 'Post One',  
    body: 'This is my post'  
  }  
  
  render() {  
    return (  
      <div>  
        <h3>{ this.state.title }</h3>  
        <p>{ this.state.title }</p>  
      </div>  
    )  
  }  
}
```

Before we get started...

- Install Node.js (which comes with Node Package Manager - npm)
- Git (with gitbash)
- A text editor or IDE (e.g. VS Code, Atom, Sublime, WebStorm etc.)

Let's get started!

Clone this repository by executing the following command in your Gitbash terminal:

```
Hassan@DESKTOP-HASSAN98 MINGW64 ~/Desktop  
$ git clone https://github.com/webdvt/react-todolist.git
```

After that...

```
Hassan@DESKTOP-HASSAN98 MINGW64 ~/myWorkshop/WDVT/React  
$ cd react-todolist
```

Continue

Install the npm packages listed in “package.json” by executing this command:

```
Hassan@DESKTOP-HASSAN98 MINGW64 ~/myWorkshop/WDVT/React/todolist  
$ npm install
```

After that, let's try running our application:

```
Hassan@DESKTOP-HASSAN98 MINGW64 ~/myWorkshop/WDVT/React/todolist (master)  
$ npm start
```

Thank you!

- Make sure you like & **follow us** on facebook, so not to miss out on our future workshops!
 - <https://www.facebook.com/WebDVT>
 - <https://www.instagram.com/webdvt>