



# Overview



Presented by: Pankaj Sharma

# Topics to be covered

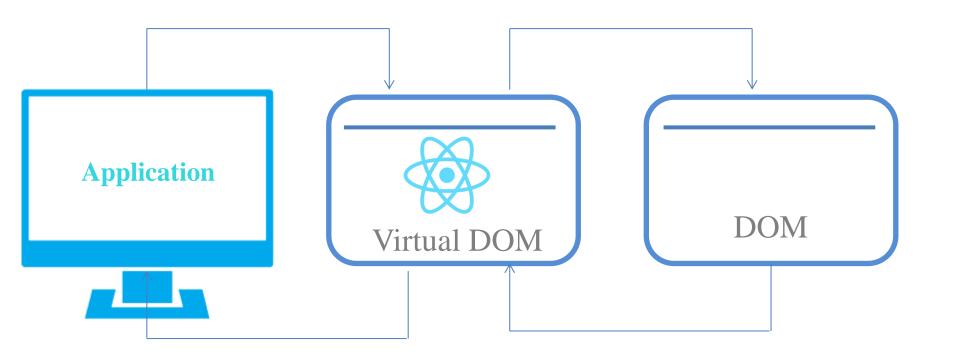
- What is ReactJS
- Virtual DOM
- Simple Hello World Application React Simulator Approach-1
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- Simple Hello World Application of ReactJS Approach-3
- Use of Babel
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- Simple Hello World Application of ReactJS Approach-6 Component Injection
- Bootstrap HelloWorld Application in ReactJS

### What is REACTJS

### Is it a framework?

- It is a view in the application
- Break down pages, or features in the small pieces of components
- Breaking down the features in the small pieces will offer the Reusability
- It is Declarative Library rather than Imperative
- It has a virtual DOM feature, which makes the DOM rendering really fast
- Component Based model

# **Working of ReactJS**



# Small Movie on React

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You need to create a sample application to simulate DOM.render()?

- Challenges are:
  - Not to include any dependency of ReactJS
  - Use JavaScript to achieve the functionality

#### HTML Template:

```
Day1/withoutReact-01.html
<!DOCTYPE html>
<html lang="en">
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<title>Document</title>
<body>
<h1>Dom Manipulation ! Without React</h1><hr>
<div id="root">
<script type="text/javascript">
</script>
```

#### Solution:

Now convert your application in dom.render()

#### Solution:

# Simple Hello World Application – React–Approach-3

#### Solution:

#### **Use of Babel**

- Babel is a Java Script Compiler.
- It will compile your ES6 or ES2015 code into equivalent ES5 code
- In React You will be writing the ES6 Code, that will be automatically compiled in ES5

#### How to use it

```
// HTML Code
<script src="babel.min.js"></script>
<script type="text/babel">
    // ES6 code
</script>
```

# Simple Hello World Application – React–Approach-4 - babel

#### Solution:

Note: add the babel.js library in your folder

Ref: <a href="https://github.com/babel/babel-standalone">https://github.com/babel/babel-standalone</a>

- Go to Installation section and copy & paste the babel.min.js link in browser and save it to the desired location by babel.min.js name

### Simple Hello World Application – React–Approach-5 - Component

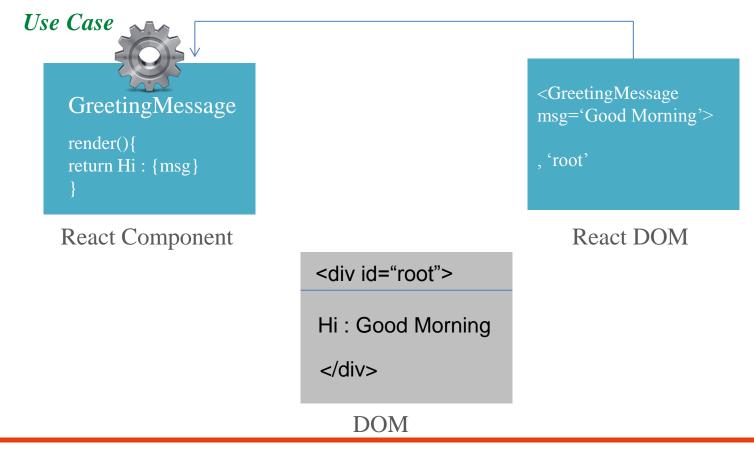
#### **React.Component**

Component helps to split the UI into independent and reusable pieces, and think about each piece in isolation. *React.Component* is provided by the *React*.

# Simple Hello World Application – React–Approach-5 - Component

#### **React.Component**

React Components implements the render() method that takes the input data and returns what to render (display).



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## **Component - props**

#### **Injecting one Component into Other**

```
Day1/componentInjection.html
<script type="text/babel">
/* Create HelloWorld Message Component*/
class Hello extends React.Component{
render(){
return <h2>Hello - from Hello Component</h2>;
class World extends React.Component{
render(){
return <h2>World - from World Component</h2>;
class HelloWorld extends React.Component{
render(){
return <div><Hello/> <World/> </div>;
/* Render the HelloWorld Component- use it as tag */
    ReactDOM.render(<HelloWorld/>,document.getElementById('root'));
  </script>
```

#### **Bootstrap ReactJS Hello World app**

<u>Create React App</u> is a new officially supported way to create single-page React applications. It offers a modern build setup with no configuration.

# **Installation**

First install the global package from the cmd or node command prompt

npm install -g create-react-app

# Creating an App

Now you can use it to create new app

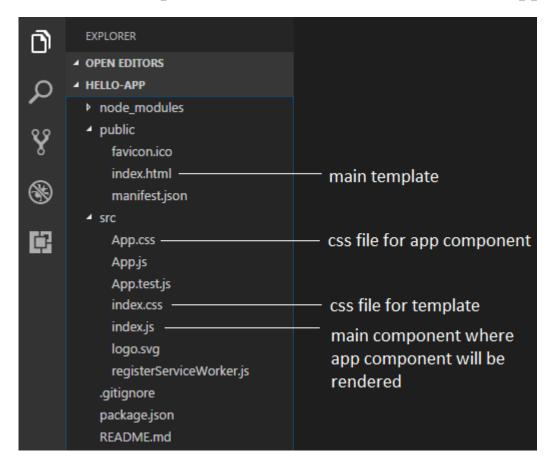
create-react-app hello-world

# Starting the server

Run below command to launch the development server. The browser will be open automatically with the created app url.

npm start

#### Some of the important files in the Quick-Start helloapp



#### **Bootstrap ReactJS Hello World app**

Let us create MessageComponent that will be rending Welcome message, and this will be used by the App Component

Create new file and name it as Message.component.js in src folder and write below code.

```
Src/MessageComponent.component.js
------
import React from 'react';

class MessageComponent extends React.Component{
  render(){
  return(
   <h3>Welcome in React JS - Quick-start Hello App</h3>
);
}

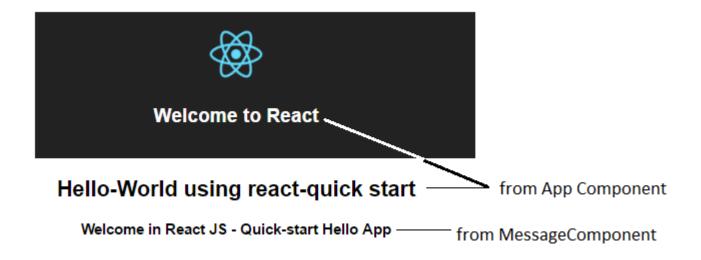
export default MessageComponent;
```

#### **Bootstrap ReactJS Hello World app**

Import the MessageComponent in App Component and call the MessageComponent as a tag.

Now save the changes in both files and go back to browser and see the changes.

Output





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