Setup React.js with Npm, Babel 6 and Webpack in under hour

Ok so this is not a article where you will understand everything about React.js, Npm, Babel and Webpack.



This is a step to step on how to get your first React project up in under 1 hour;). I use Windows and found good articles for Linux, but no one for windows so here you go.

Create a new folder 'first-react-project' and initialize it with npm.

npm init

Then install webpack

npm i webpack -S

Then create file

touch webpack.config.js Windows Right click in folder and create new file, webpack.config.js Update "webpack.config.js" With var webpack = require('webpack'); var path = require('path'); var BUILD_DIR = path.resolve(__dirname, 'src/client/public'); var APP_DIR = path.resolve(__dirname, 'src/client/app'); var config = { entry: APP_DIR + '/index.jsx', output: { path: BUILD_DIR, filename: 'bundle.js' } }; module.exports = config;

Create *index.jsx* file in the "*src/client/app"* and add console.log('Hello World!'); in it.

In the terminal run the following command

```
Linux
./node_modules/.bin/webpack -d
Windows
node_modules\.bin\webpack -d
```

Linux

The above command runs the webpack in the development mode and generates the *bundle.js* file in *src/client/public* directory.

Now create an *index.html* file in the *src/client* directory and modify it to use this *bundle.js* file

If you open the browser, you can see the *Hello World!* in the **console log**.

Setting Up Babel-Loader

By using JSX and ES6 we can be more productive while working with React, so we need to install the following npm packages.

npm i babel-core babel-loader babel-preset-es2015 babel-preset-react -S Now we need to create .babelrc file

Linux touch .babelrc

Windows

Create a b.babelrc file then in CMD

ren b.babelrc .babelrc (Just rename the file manually)

Open file and add

```
{
    "presets" : ["es2015", "react"]
}
```

Now we need to tell Webpack to use the babel-loader while bundling the files, open *webpack.config.js* file and update it as below

```
var webpack = require('webpack');
var path = require('path');
var BUILD_DIR = path.resolve(__dirname, 'src/client/public');
var APP_DIR = path.resolve(__dirname, 'src/client/app');
var config = {
  entry: APP_DIR + '/index.jsx',
  output: {
     path: BUILD_DIR,
     filename: 'bundle.js'
  },
  module: {
     rules: [
       {
          test: /\.jsx?/,
          use: [
            { loader: 'babel-loader' }
       }
     1
  }
```

```
};
module.exports = config;
```

Lets get some text out

Use npm to install react and react-dom

```
npm i react react-dom -S
```

Replace the existing console.log statement in the *index.jsx* with the following content

```
import React from 'react';
import {render} from 'react-dom';

class App extends React.Component {
  render () {
    return  Hello React project;
  }
}
```

render(<App/>, document.getElementById('app'));

Run the following command to update the bundle file with the new changes

```
Linux
./node_modules/.bin/webpack -d
Windows
node_modules\.bin\webpack -d
```

Open the *index.html* in the browser, you can see *Hello React, be proud ;*)

Add component...

export default AwesomeComponent;

Create a new file AwesomeComponent.jsx and update it as below

```
import React from 'react';
class AwesomeComponent extends React.Component {
 constructor(props) {
  super(props);
  this.state = {likesCount : 0};
  this.onLike = this.onLike.bind(this);
 onLike () {
  let newLikesCount = this.state.likesCount + 1;
  this.setState({likesCount: newLikesCount});
 render() {
  return (
   <div>
     Likes: <span>{this.state.likesCount}</span>
    <div><button onClick={this.onLike}>Like Me</button></div>
   </div>
```

Then include it in the index.jsx file

If your Webpack is already running in watch mode or you have updated, then refresh the browser to see the AwesomeComponent in action.

otherwise run

Linux

./node_modules/.bin/webpack -d --watch **Windows**node_modules\.bin\webpack -d --watch