

WebPack



Sudhakar Sharma • Yesterday

1. Create a folder

2. Run init

```
> npm init -y
```

3. Create public / index.html

4. Install Webpack

```
> npm install webpack webpack-cli --save-dev
```

5. Add a new file

```
// webpack.config.js
```

```
const path = require("path");
```

```
module.exports = {  
  entry: "./src/index.js",  
  output: {  
    filename: "main.js",  
    path: path.resolve(__dirname, "build"),  
  },  
};
```

6. Add in package.json

```
"scripts": {  
  
  "build": "webpack"  
},
```

7. Install HTML webpack plug-in

```
npm install html-webpack-plugin --save-dev
```

8. Make changes in Webpack.config



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```
new HtmlWebpackPlugin({  
  template: path.join(__dirname, "public", "index.html"),  
}),  
],
```

// Final Code

```
const path = require("path");  
const HtmlWebpackPlugin = require("html-webpack-plugin");  
  
module.exports = {  
  entry: "./src/index.js",  
  output: {  
    filename: "main.js",  
    path: path.resolve(__dirname, "build"),  
  },  
  plugins: [  
    new HtmlWebpackPlugin({  
      template: path.join(__dirname, "public", "index.html"),  
    }),  
  ],  
};
```

8. Add web pack dev server

```
> npm install --save-dev webpack-dev-server
```

9. Modify Webpack.config

```
devServer: {  
  static: {  
    directory: path.join(__dirname, "build"),  
  },  
  port: 3000,  
}
```

10. Package.json Scripts

```
"scripts": {  
  "build": "webpack --mode production",  
  "start": "webpack serve --mode development"  
}
```

```
> npm run start
```



```
> npm i @babel/core @babel/preset-env babel-loader --save-dev
```

12. Modify Web.config

```
module: {  
  // exclude node_modules  
  rules: [  
    {  
      test: /\.js$/,  
      exclude: /node_modules/,  
      use: ["babel-loader"],  
    },  
  ],  
},  
// pass all js files through Babel  
resolve: {  
  extensions: ["*", ".js"],  
}
```

13. Add file

```
// .babelrc  
  
{  
  "presets": [  
    "@babel/preset-env"  
  ]  
}
```

14. Add React

```
> npm i react react-dom --save  
> npm i @babel/preset-react --save-dev
```

15. Babel Config

```
{  
  "presets": [  
    "@babel/preset-env",  
    ["@babel/preset-react", {  
      "runtime": "automatic"  
    }]  
  ]  
}
```



```
test: /\.jsx$/, // <-- added jsx here  
]
```

```
extensions: ["*", ".js", ".jsx"],
```

17. Create Component

hello.js

```
const Hello = () => <h1>Hello from React!</h1>;
```

```
export default Hello;
```

18. Index.js

```
import React from "react";  
import { createRoot } from "react-dom/client";  
import Hello from "./Hello";
```

```
const container = document.getElementById("root");  
const root = createRoot(container);  
root.render(<Hello />);
```

19. Index.html

```
<body>  
  <div id="root"></div>  
</body>
```



Class comments

