React Project Setup:

We write code in JSX / ES6 code which is not understood by the browsers. We will be using babel to convert our code to vanilla JS.

To include Babel, we will install React and Babel using npm.

1) Initialize NPM project

npm init

This will create the package.json which has all the dependencies.

2) Install react and react-dom

\* npm install react react-dom --save

3) Install Babel to our dev dependencies

\* npm install babel-core babel-loader babel-preset-es2015 babel-preset-react --save-dev

Babel-preset-react: compile jsx code to vanillaJS

babel-preset-es2015: compiles es2015 code to vanillaJS

babel-core - core library

3) Install Webpack

\* npm install webpack webpack-dev-server --save-dev

We will use Webpack to configure Babel

Webpack also provides a dev server.

\* Create the webpack.config.js

This is the main file which will be used for bundling our code.

In this file we provide the following info:

a. output directories

b. input entry point

c. loads the loaders to convert and compile our jsx / es2015 code to vanilla js

- we mention which all files needs to be converted

- we mention the directory where the compiling needs to be done

- mentions the presets (which all code types needs to be converted to vanilla js)

\* Add webpack task to package.json

a) "start": "npm run build",

b) "build": "webpack -d && webpack-dev-server --content-base src/ --inline --hot --port 1234"

Note: Ensure that teh index.html file has reference to bundle.js. If not add it!

4) Bundle our code using

npm start