**Webpack**

Lecture 347:

Webpack 4, Module Bundler

Webpack is a module bundler. It allows us to create bundle with 0 configurations.

Install webpack in our project directory and launch it.

“open index.html” opens this html file in default application for opening html files.

Opened using ‘file’ protocol.

We try to use function defined in another file in our file.

In order to do so, we define both the files in <script> in our html file.

Order of <script> will be important. File is loaded and immediately executed.

We can use ES6 modules. ES6 modules use import and export keywords.

In greeting.js file,

const greet = name => {

return `Hello ${name}`

}

export default greet

In the index.js file,

import greet from “./greeting” // can omit .js

…

console.log(greet(“Bob”))

Now we don’t need to add greeting.js in <script> as index.js file will import it.

Browsers do not support ES6 modules. So we will get an error with ‘import’ keyword.

That is why we need to use webpack to combine these files in 1 bundle.

npm install --save-dev webpack

webpack depends on a huge number of packages.

In package.json add a build script.

“build”: “webpack”

“npm run build”

Have to install webpack-cli

“main.js” is the name of the created bundle that includes index.js and greeting.js.

Webpack adds additional information to the bundle, for example information about module sketching.

There is also a ‘mode’ option and we can either set it production or development.

If this mode is absent, then webpack will produce results for production.

“dist” folder has main.js

Production vs Development: Stack Overflow

Without any configuration, wepack 4 looks for index.js in the src folder and creates bundle in the dist folder.

And name of the bundle is main.js

Now we need to add a reference for bundle in the index.html file.

<script src=“dist/main.js”> </script>

Development mode:

In package.json,

“scripts”: {

“build”: “webpack --mode development”

}

“npm run build”

Now main.js will be structured with many different comments.

console.log messages will be produced by index.js and not main.js.

index.js will be converted into a webpack module.

“default” method is the default export of index.js file.

By default, Webpack 4 looks for index.js file in the src folder and creates result in the dist folder and the bundle is called main.js

Add this bundle in the html file

We made bundles without any configurations.

**Lecture 348**:

Webpack Dev Server

WebServer with live reload

Install 3 packages as development dependencies.

webpack, webpack-cli, webpack-dev-server

npm install --save-dev …

Can watch this later when webpacks will be useful.