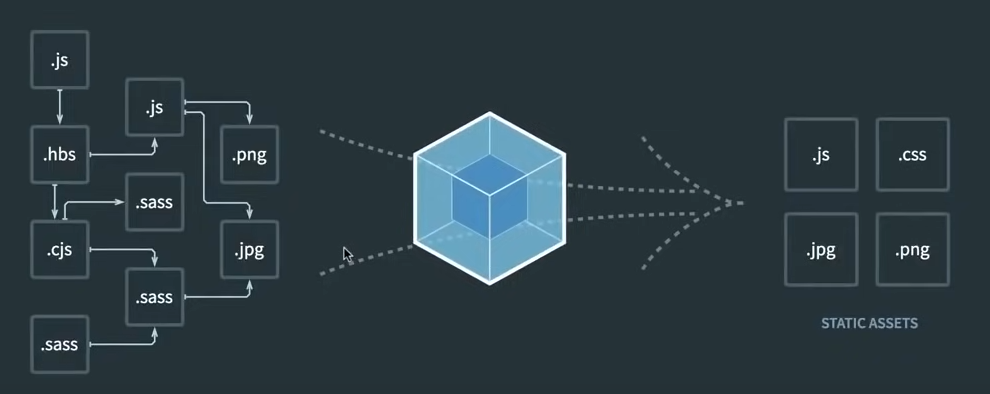
# What is Webpack

## Video Link: https://www.youtube.com/watch?v=MpGLUVbqoYQ

## What webpack does

It bundle our code/assets together

It also manages dependencies. If you read a file that depends on three other those three need to be included first.

This line of code:

\_\_webpack\_require\_\_(\*/! react 8/ ……

it is the way how webpack keep track of what is imported where, what is exported where…. basically manages the dependencies. It replace import and export with **webpack\_require** .

If we don’t use webpack we have to add dependencies on the required order like:

<script src = “./src/app/alert.service.js”></script>

<script src = “./src/app/component.service.js”></script>

<script src = “./src/app/utils/inputs-are- valid.js”></script>

<script src = “./src/app/app.js”></script>

</html>

## Install webpack

$ npm install –save-dev webpack webpack-cli

Then in the **package.json** in the **“script”**  we shoul add this line for the webpack to run on the **npm start** :

“script” : { “start” : “webpack”}

***Note*** : There should be an **index.js** in the **./src** file for webpack to start with.

After webpack done his work the **main.js** file will be produce in the **dist** folder.

***Note:*** We should add **dist** folder to **.gitignore**, because it will be created by using **npm start**.

## Depending files together

For depending files together then have a overall **main.js** file we should use **ES6** methods, **Export** and **Import**, after that we have to import main function in the **index.js** and run it.

By using webpack we can only use the main script in the **html** file :

<script src = “./dist/main.js”></script>

</html>

# Webpack config

For confing Webpack we should create a file that is named: **webpack.config.js**  and in the file:

const path = require(“path”);

module.exports = {

mode: “development”, //The main.js file will be not //minified anymore;

devtool: “none”,

entry: “./src/index.js”, //The file whole project start

output:{

filename: “main.js”,

path: path.resolve(\_\_dirname, “dist”)//It will create a //dist filt in the root

},

}

**“devtool: none”:** It will change the **eval(…)** function in the **main.js** file for more readability;

In the **package.json** file we should mention the config file:

{

.

.

.

“script”: {

“start” : “webpack –config webpack.config.js”

}

}

This line will show the config js in the npm start.

# Webpack loaders

## CSS Loader

These packages are used for loading css in webpack: **css loader** & **style loader**.

**css-loader** will turn a css file to the javasript and **style-loader**  will take this jacascript code and inject it into the DOM by a **<style>** tag.

At first we should install packages:

npm install –save-dev style-loader css-loader

For adding css in our app, we should confing a css loader in our **config.js** file.

module.exports = {

module: {

rules: [

{

test: /\.css$/, //It’s regex and **$** means that it //has to end with css

use: [“style-loader”, “css-loader”] //The //arrangemant should be like the above

}

]

}

}

After these configs we should create a css file then import it in the file.