

JavaScript u praksi



OSIJEK SOFTWARE {ITY_ predavač: Alen Egredžija Jägerova 2, Osijek #CodeCamp

FACTORY U BROJKAMA



28
EMPLOYEES



2 OFFICES



PROJEKTI

Index.me



Najpopularnijem news portalu u Hrvatskoj, razvili smo mobilnu aplikaciju za još veće povezivanje sa svojim korisnicima

Osječka pivovara



Razvili smo web rješenje kako bi korisnici što prije došli do najdražeg piva

Sheypme



Mobilna aplikacija za startup koja sadrži personalizirane planove vježbanja i program jela

Node.js

Open-source, cross-platform JavaScript run-time environment

Prva verzija - Svibanj 2009

Ryan Dahl

Node.js

"JavaScript everywhere" paradigma

event-driven, asinkroni I/O

npm

JavaScript package manager

mogućnost dijeljenja, instalacije, distribucije i organizacije paketa ("dependency-a")

npm

Tri komponente:

- 1. Website
- 2. Command Line Interface (CLI)
 - 3. Registar

Instalacija

(Node.js + npm)

https://nodejs.org/en

Kreiranje projekta

Unutar konzole:

```
npm init

ili

npm init -y
```

("default", bez dodatnih pitanja prilikom inicijalizacije)

package.json

"manifest" za Node.js ekosistem

https://docs.npmjs.com/getting-started/using-a-package.json

"Module bundler" napisan za moderne Javascript aplikacije

Vrlo "**podesiv**"

Verzija 4

Instalacija

npm install webpack --save-dev

i Webpack CLI:

npm install webpack-cli --save-dev

"Zero configuration"

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

npm run build

"environment modes"

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

```
"scripts":{
    "dev": "webpack --mode development ./src/index.js --output ./dist/main.js",
    "build": "webpack --mode production ./src/index.js --output ./dist/main.js"
```

webpack.config.js

konfiguracijski fajl

Koristi se automatski, mogućnost izmjene:

```
"scripts": {
"build": "webpack --config ./config/prod.config.js",
}
```

webpack.config.js

```
webpack.config.js
      const path = require('path');
      module.exports = {
          entry: [
              './src/index-1.js',
             './src/index-2.js',
              path: path.resolve( dirname, 'dist'),
              filename: 'main.js'
```

webpack loader

"out-of-the box" JavaScript;

preprocessing ostalih tipova datoteka

webpack plugin

Webpack je praktički "izgrađen" na plugin-ima

"odrađuju" sve što loader ne može

Webpack & HTML

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

```
webpack.config.js ×
       const HtmlWebPackPlugin = require("html-webpack-plugin");
       const path = require('path');
       module.exports = {
               './src/index-1.js',
               './src/index-2.js',
               path: path.resolve( dirname, 'dist'),
               filename: 'main.js'
                       test: /\.html$/,
               new HtmlWebPackPlugin({
                   template: "./src/index.html",
                   filename: "./index.html"
           ],
```

./src/index.html

```
webpack.config.js
                     index.html ×
      <!DOCTYPE html>
      <html lang="en">
          <meta charset="utf-8">
          <title>Webpack</title>
      </head>
               <div id="app">
                   <h2>Test</h2>
              </div>
          </body>
      </html>
```

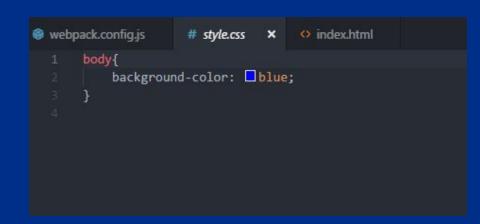
Webpack & HTML

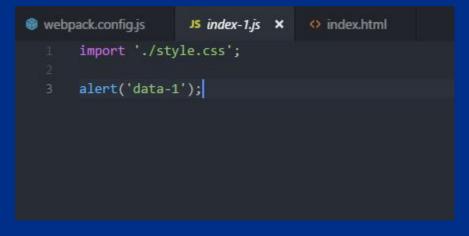
npm run build

Webpack & CSS

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

```
webpack.config.js
{} package.json
                                      index.html
      const HtmlWebPackPlugin = require("html-webpack-plugin");
      const path = require('path');
      module.exports = {
               './src/index-2.js',
                              options: { minimize: false }
                      use: [ 'style-loader', 'css-loader' ]
              new HtmlWebPackPlugin({
                  filename: "./index.html"
```





Webpack & CSS

npm run build

webpack-dev-server

development server sa <u>live reloadom</u>

npm install webpack-dev-server --save-dev

```
"scripts":{
    "start": "webpack-dev-server --mode development
--open",
    "build": "webpack --mode production"
}
```

webpack-dev-server

```
devServer: {
    open: true,
    port: 3000,
    contentBase: './dist'
},
```

```
webpack.config.js
                    "name": "js-workshop",
        "version": "1.0.0",
        "description": "Simple showcase application",
        "scripts": {
          "start": "webpack-dev-server --mode development",
          "build": "webpack --mode production"
        "keywords": [
          "webpack",
          "npm",
          "sass",
          "babel"
        "author": "Egredžija Alen",
        "license": "ISC",
          "npm": "^6.1.0",
          "update": "^0.7.4",
          "webpack": "^4.12.0"
          "css-loader": "^0.28.11",
          "html-loader": "^0.5.5",
          "html-webpack-plugin": "^3.2.0",
          "style-loader": "^0.21.0",
          "webpack-cli": "^3.0.4",
          "webpack-dev-server": "^3.1.4"
```

```
webpack.config.js × {} package.json
                                     index.html
     const HtmlWebPackPlugin = require("html-webpack-plugin");
     const path = require('path');
     module.exports = {
              './src/index-1.js',
                              loader: "html-loader",
                     use: [ 'style-loader', 'css-loader' ]
             new HtmlWebPackPlugin({
                  template: "./src/index.html",
```

Izvori

https://nodejs.org/en/

https://www.npmjs.com/

https://webpack.js.org/

TRAŽITE PRAKSU?



prijavi se na factory.hr/jobs

Kontakti: <u>alen.egredzija@factory.hr</u>

http://factory.hr/blog/
https://github.com/factoryhr/education - materijali za učenje

Pitanja?

Package.json; razlika između dependency-a i devDependency-a?

Koje environment modove webpack koristi i po čemu se razlikuju?



Priprema za sljedeću radionicu

Pogledati SASS/SCSS preprocesore i BABEL te ES6 (ECMAScript 2015).