

DOBRO DOŠLI NA PREDAVANJE

Uvod u React

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FACTORY

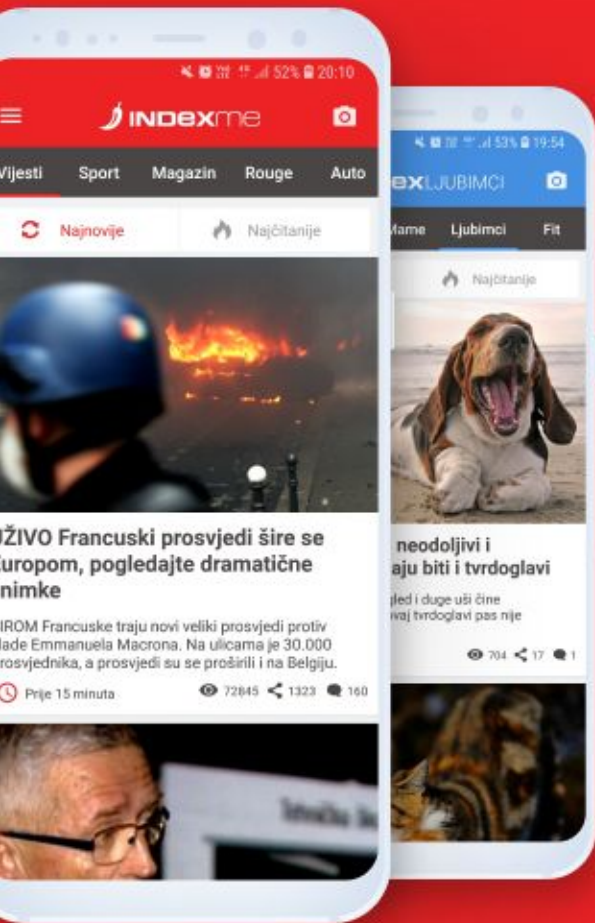


Factory.hr

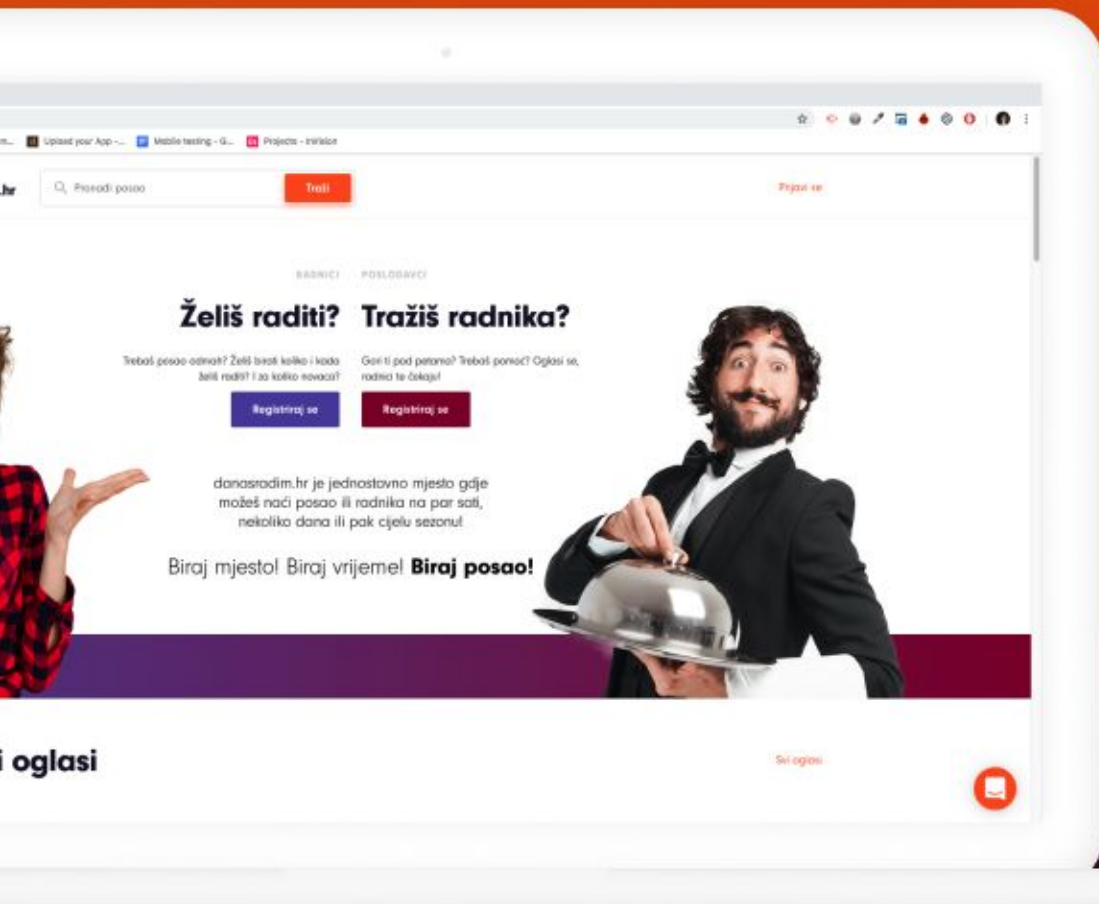
- ◆ Mi smo tvrtka koja okuplja 28* stručnjaka iz područja web i mobilnih tehnologija te menadžmenta i marketinga koji vode brigu o uspješnosti svih projekta.
- ◆ Iz ureda u Virovitici i Osijeku radimo za preko 100 klijenata koji dolaze iz različitih krajeva svijeta.



Advent *in* ZAGREB



 **INDEXme**



DANASRADIM.hr

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Radnik

Želiš raditi?

Trebaš posao odmah? Želiš birati koliko i kada želiš raditi? I za koliko novaca?

Odaberi

React

Popularnost

- Facebook
- manje kompleksan od konkurencije

Deklarativan

- opisuje browseru što prikazati

Virtualni DOM

- “Čisti” kod
 - Brzina

DOM	Virtualni DOM
spori update	brzi update
može direktno mjenjati HTML	ne može direktno mjenjati HTML
stvara novi DOM ako se element promijeni	mijenja JSX ako se element promijeni
manipulacija DOM-a je jako "skupa"	manipulacija DOM-a je jako jednostvna
previše memorije je izgubljeno	nema gubitka memorije

JSX

- opcinalni markup jezik
- povezuje JS i HTML

Komponente

- reusability

One way data binding

- state
- props

Create react app

```
npm init react-app my-app
```

```
npm install node-sass prop-types
```


- node_modules
- public
- ▾ src
 - ▾ components
 - ▾ repository
 - JS index.js
 - 🔗 style.sass
 - JS App.js
 - 🔗 app.sass
 - JS App.test.js
 - JS index.js
 - 🖼 logo.svg
 - JS serviceWorker.js
- 📄 .gitignore
- { } package-lock.json
- { } package.json
- 📖 README.md

app.sass: <https://pastebin.com/1vUXeSLw>
style.sass: <https://pastebin.com/AubfRb4R>

JS App.js

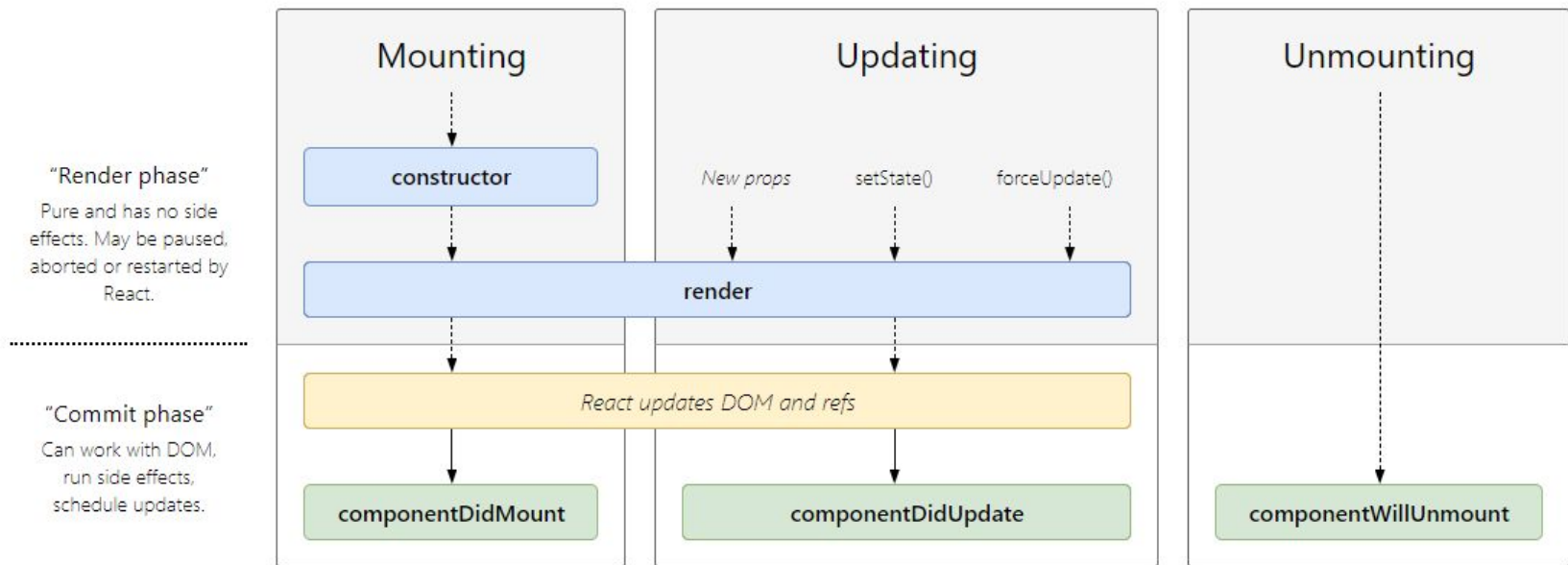
```
1  import React from 'react' 8K (gzipped: 3.3K)
2
3  import './app.sass'
4
5  const App = () => (
6    <div className="App Wrapper">
7      <h1>React.js</h1>
8    </div>
9  )
10
11  export default App
12
```

<> index.html x

```
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <meta charset="utf-8">
5      <link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
6      <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7      <meta name="theme-color" content="#000000">
8      <link href="https://fonts.googleapis.com/css?family=Raleway" rel="stylesheet">
9      <!--
10     manifest.json provides metadata used when your web app is added to the
11     homescreen on Android. See https://developers.google.com/web/fundamentals/web-app-manifest/
12     -->
```

React version 16.4 ▼

Language en-US ▼



```
1  import React, { Component } from 'react' 8K (gzipped: 3.3K)
2  import PropTypes from 'prop-types' 1.6K (gzipped: 838)
3
4  import './style.sass'
5
6  class Repository extends Component {
7    state = {
8      repo: null
9    }
10
11    /**
12     * Get repo details
13     * @param {*} name
14     */
15    async getDetails(name) {
16      try {
17        // Make request
18        const res = await fetch(`https://api.github.com/repos/${name}`, { mode: 'cors' })
19        return res.json()
20      } catch (err) {
21        console.error(err)
22        throw err
23      }
24    }
25
26    async componentDidMount() {
27      const { name } = this.props
28      const repo = await this.getDetails(name)
29
30      console.log(`${name} response: `, repo)
31      this.setState({ repo })
32    }
33  }
```



```
1  import React from 'react' 8K (gzipped: 3.3K)
2  import Repository from './components/repository'
3
4  import './app.sass'
5
6  const App = () => (
7    <div className="App Wrapper">
8      <h1>React.js</h1>
9      {/** Put repos components here */}
10     <Repository name="factoryhr/CustomUISwitch" />
11     <Repository name="factoryhr/laravel-attachments" />
12     <Repository name="factoryhr/Http2-Setup" />
13     <Repository name="factoryhr/blog-post-introduction-to-redux-for-web-application-development" />
14     <Repository name="factoryhr/js-workshop" />
15   </div>
16 )
17
18 export default App
19
```



```
npm run build
```

- └─ build
 - └─ static
 - └─ css
 - js
 - JS 1.ec736e3c.chunk.js
 - JS 1.ec736e3c.chunk.js.map
 - JS main.901a795a.chunk.js
 - JS main.901a795a.chunk.js.map
 - JS runtime~main.229c360f.js
 - JS runtime~main.229c360f.js.map
 - { } asset-manifest.json
 - ★ favicon.ico
 - <> index.html
 - { } manifest.json
 - JS precache-manifest.fefb48d8cad6143e12509...
 - JS service-worker.js
 - └─ node_modules
 - └─ public
 - └─ src
 - ◆ .gitignore
 - { } package-lock.json
 - { } package.json
 - ⓘ README.md

Za one koji žele znati više

<https://reactjs.org/docs/getting-started.html>

<https://redux.js.org/>

<https://github.com/ReactTraining/react-router>

<https://www.apollographql.com/>

Izvori

<https://www.npmjs.com/>

<https://reactjs.org/>

<https://medium.freecodecamp.org/>

<https://egghead.io/>

Kontakt

factory.hr/prakse - iskustva s praksi

factory.hr/jobs - prijave za posao

<https://github.com/factoryhr/education>



FACTORY

Nagradno pitanje?



FACTORY

Razlika između DOM-a i virtualnog DOM-a

Što je JSX?

Razlika između state-a i props-a

Zadatak

- <https://newsapi.org/>
- koristeći API povući vijesti i prikazati ih u gridu pomoću React-a
- prikazati ime autora članka, naslov i sliku članka (ako postoji) te link do originalnog članka