Chat app writeup

1. Project install

TRUPTI@LAPTOP-RLRGMMNC MINGW64 /e/frontwebutvecklare/projects

$ npm -g install create-react-app

C:\Users\TRUPTI\AppData\Roaming\npm\create-react-app -> C:\Users\TRUPTI\AppData\Roaming\npm\node\_modules\create-react-app\index.js

+ create-react-app@2.1.5

updated 1 package in 3.582s

TRUPTI@LAPTOP-RLRGMMNC MINGW64 /e/frontwebutvecklare/projects

$ create-react-app mandatory-advanced-js1

Creating a new React app in E:\frontwebutvecklare\projects\mandatory-advanced-js1.

Installing packages. This might take a couple of minutes.

Installing react, react-dom, and react-scripts...

+ react-dom@16.8.3

+ react@16.8.3

+ react-scripts@2.1.5

added 1813 packages from 717 contributors and audited 36230 packages in 81.56s

found 63 low severity vulnerabilities

run `npm audit fix` to fix them, or `npm audit` for details

Initialized a git repository.

Success! Created mandatory-advanced-js1 at E:\frontwebutvecklare\projects\mandatory-advanced-js1

Inside that directory, you can run several commands:

npm start

Starts the development server.

npm run build

Bundles the app into static files for production.

npm test

Starts the test runner.

npm run eject

Removes this tool and copies build dependencies, configuration files

and scripts into the app directory. If you do this, you can’t go back!

We suggest that you begin by typing:

cd mandatory-advanced-js1

npm start

Happy hacking!

TRUPTI@LAPTOP-RLRGMMNC MINGW64 /e/frontwebutvecklare/projects

$ cd mandatory-advanced-js1/

TRUPTI@LAPTOP-RLRGMMNC MINGW64 /e/frontwebutvecklare/projects/mandatory-advanced-js1 (master)

$ git init

Reinitialized existing Git repository in E:/frontwebutvecklare/projects/mandatory-advanced-js1/.git/

TRUPTI@LAPTOP-RLRGMMNC MINGW64 /e/frontwebutvecklare/projects/mandatory-advanced-js1 (master)

$ git add .

warning: LF will be replaced by CRLF in package.json.

The file will have its original line endings in your working directory

TRUPTI@LAPTOP-RLRGMMNC MINGW64 /e/frontwebutvecklare/projects/mandatory-advanced-js1 (master)

$ git commit -m "Initial setup"

On branch master

nothing to commit, working tree clean

TRUPTI@LAPTOP-RLRGMMNC MINGW64 /e/frontwebutvecklare/projects/mandatory-advanced-js1 (master)

$ git remote add origin git@github.com:truptigaonkar/mandatory-advanced-js1.git

TRUPTI@LAPTOP-RLRGMMNC MINGW64 /e/frontwebutvecklare/projects/mandatory-advanced-js1 (master)

$ git push -u origin master

Enumerating objects: 18, done.

Counting objects: 100% (18/18), done.

Delta compression using up to 4 threads

Compressing objects: 100% (18/18), done.

Writing objects: 100% (18/18), 145.53 KiB | 1.15 MiB/s, done.

Total 18 (delta 0), reused 0 (delta 0)

To github.com:truptigaonkar/mandatory-advanced-js1.git

\* [new branch] master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

1. **Authentication login**

**App.js**

import React, { Component } from 'react';

import './App.css';

// Component Authentication

class LoginForm extends React.Component {

handleonSubmit(e) {

e.preventDefault()

let username = this.refs.username.value

this.props.onSignIn(username)

}

// Rendering login page

render() {

return (

<form onSubmit={this.handleonSubmit.bind(this)}>

<h3>Sign in</h3>

<input type="text" ref="username" required="required" minLength={1} maxLength={12} placeholder="Enter USERNAME" />

<input type="submit" value="Login" />

</form>

)

}

}

class App extends Component {

constructor(props) {

super(props)

this.state = {

user: null

}

}

// Signin with authenticated user

signIn(username) {

// calling setState will re-render the entire app efficiently.

this.setState({ user: {username} })

}

// Authentication signout which clear out user from state

signOut() {

this.setState({ user: null })

}

// Rendering page after successfully login

render() {

return (

<div className="App">

<h1>Chat App</h1>

{

(this.state.user) ?

<Welcome user={this.state.user} onSignOut={this.signOut.bind(this)} />

:

<LoginForm onSignIn={this.signIn.bind(this)} />

}

</div>

);

}

}

// Component to add Username and signout button to page

const Welcome = ({ user, onSignOut }) => {

return (

<div>

Welcome <strong>{user.username}</strong>! <br />

<a href="javascript:;" onClick={onSignOut}>Sign out</a>

</div>

)

}

export default App;

1. Listing messages by connecting to backend server Socket.io

**Install socket.io client:**

PS E:\frontwebutvecklare\projects\mandatory-advanced-js1> npm install socket.io-client

npm WARN ts-pnp@1.0.1 requires a peer of typescript@\* but none is installed. You must install peer dependencies yourself.

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.7 (node\_modules\chokidar\node\_modules\fsevents):

npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.7: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.4 (node\_modules\fsevents):

npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.4: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})

+ socket.io-client@2.2.0

added 30 packages from 21 contributors and audited 36278 packages in 21.006s

found 63 low severity vulnerabilities

run `npm audit fix` to fix them, or `npm audit` for details

PS E:\frontwebutvecklare\projects\mandatory-advanced-js1>

**React with Reactstrap**

<https://reactstrap.github.io/>

Adding Bootstrap

1. Install reactstrap and Bootstrap from NPM. Reactstrap does not include Bootstrap CSS so this needs to be installed as well:

npm install bootstrap --save

npm install --save reactstrap react react-dom

1. Import Bootstrap CSS in the src/index.js file:

import 'bootstrap/dist/css/bootstrap.min.css';

1. Import required reactstrap components within src/App.js file or your custom component files:

import { Button } from 'reactstrap';

1. Now you are ready to use the imported reactstrap components within your component hierarchy defined in the render method. Here is an example [App.js](https://gist.github.com/Thomas-Smyth/006fd507a7295f17a8473451938f9935) redone using reactstrap.
2. Import the components you need

Danger!

import React from 'react';

import { Button } from 'reactstrap';

export default (props) => {

return (

<Button color="danger">Danger!</Button>

);

};

1. Get all the components

Reactstrap components:

<https://reactstrap.github.io/components/navbar/>

React + Bootstrap component

<https://react-bootstrap.github.io/components/alerts/>

1. Font awesome

<https://stackoverflow.com/questions/23116591/how-to-include-a-font-awesome-icon-in-reacts-render>

f you are **new to React JS** and using **create-react-app cli** command to create the application, then run the following NPM command to include the latest version of font-awesome.

npm install --save font-awesome

import font-awesome to your index.js file. Just add below line to your index.js file

import '../node\_modules/font-awesome/css/font-awesome.min.css';

or

import 'font-awesome/css/font-awesome.min.css';

Don't forget to use **className** as attribute

render: function() {

return <div><i className="fa fa-spinner fa-spin">no spinner but why</i></div>;

}

1. **Emoj and link:** <https://emojipedia.org/>

npm install react-linkify --save

npm install **--**save react**-**emojione

import Linkify from "react-linkify";

import Emojify from "react-emojione";

<Linkify>

<Emojify style={{height: 20, width: 20}}>{objItem.content}</Emojify>

</Linkify>