

course git hub \Rightarrow <http://bit.ly/reventsapp>
facebook / create-react-app

\rightarrow npm will be available

install node.js \Leftarrow JavaScript execution engine \Rightarrow 10.15.3 LTS

in the project folder \Rightarrow project name

npx create-react-app revents --use-npm

cd revents/ \Leftarrow go into the folder

code . \Leftarrow open in VSCode \supset if not working

ctrl P \Rightarrow show All Commands \Rightarrow search path \Rightarrow shell command: Install "code" command in PATH

^ \Rightarrow Toggle Terminal

npm start \Leftarrow open the project in chrome

file \Rightarrow auto save

\Rightarrow webpack injects JS into html

* Hot Module Replacement

index.js \supset

```
const rootEl = document.getElementById('root');
let render = () => {
  ReactDOM.render(<App/>>, rootEl)
```

;

if(module.hot){

```
  module.hot.accept('./App', ()=>{
```

```
    setTimeout(render);
```

})

;

render()

// folder struct

SCR

app

layout

App.css

App.jsx (renamed)

logo.svg

features

// React APIs

render()

constructor()

componentDidMount()

componentWillUnmount()

componentDidUpdate()

setState()

JSX

React Hooks

Raster VS. Vector

* install node version manager: <http://bit.ly/2Hn8HjG>

* Free images \Rightarrow pixabay.com

check version \Rightarrow node --version

nvm -h \Leftarrow node version manager helper

nvm ls \Leftarrow different versions

nvm use v8.11.2 \Leftarrow switch version

* extensions:

Auto Rename Tag

Bracket Pair Colorizer

Debugger for Chrome

click \Rightarrow change No configurations to new config and choose chrome
change Localhost:8000 to 3000

"webRoot": "`workspaceFolder`/src"

VS Code 257 React/Redux/React-Native/JS snippets

ESLint \Leftarrow check against es rules

Material Icon Theme

Prettier - code formatter shift + Alt + F

command + (command) \Rightarrow open settings search prettier

React Redux Firestore Course Snippets

S-

Alt + Shift + F \Rightarrow reformat

// App.jsx

\Rightarrow named import

```
import React, { Component } from 'react';
```

```
class App extends Component {
```

```
  render() {
```

```
    <div className='app'>
```

```
      <h1>Re-vents</h1>
```

```
    </div>
```

```
  }
```

```
}
```

```
export default App;
```

DOM: Document Object Model

* if not working \Rightarrow try: npm start

* React Developer tools \Rightarrow add to chrome

// index.js

```

import React
import ReactDOM
import App from './app/Layout/App'
import * as serviceWorker from './serviceWorker';

const rootEl = document.getElementById('root');
let render = () => {
  ReactDOM.render(<App />, rootEl)
}

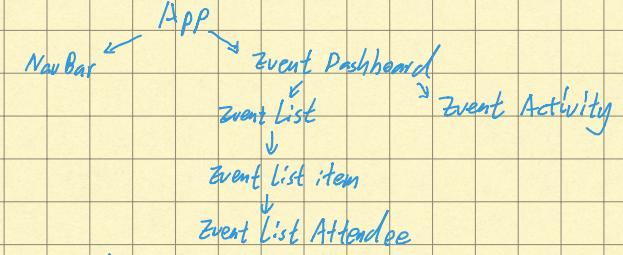
if(module.hot){
  module.hot.accept("./App", ()=>{
    setTimeout(render);
  })
}

render()

```

* if it is passed in from a parent via prop ∈ Not state
 * if not change over time ∈ Not state
 * if can be computed based on other state or prop ∈ Not state

//structure



//folders

```

|/src
  |app
    |layout
      |App.jsx

```

```

  |features
    |event
      |eventDashboard
        |EventDashboard.jsx
      |eventList
        |EventList.jsx
        |EventListItem.jsx
        |EventListAttendee.jsx

```

```

  |nav
    |navBar
      |NavBar.jsx

```

/public

```

  |assets
    |favicon.ico
    |index.html
    |manifest.json

```

//Semantic UI intro

Semantic UI React & jQuery tree

```

  ↗ named import
import React, {Component} from 'react';
import {Button} from 'semantic-ui-react';

class App extends Component{
  render(){
    return (
      <div>
        <h1>Re-vents</h1>
        <button className="ui icon button">
          <i className="smile icon"></i>
          CSS Button
        </button>
        <Button icon="smile" content="React Button"/>
      </div>
    );
  }
}

export default App;

```

App.jsx (app / layout)

NavBar is Stateful

```
import React, {Component, Fragment} from 'react';
import EventDashboard from '../.. /features /event /EventDashboard /EventDashboard';
↓ similar ones NavBar, {Container}

class App extends Component {
  render() {
    return (
      <Fragment>
        <NavBar />           ↗ * className is needed
        <Container className = "main">
          <EventDashboard />
        </Container>
      </Fragment>
    );
  }
  export default App;
```

→ auto generated after type EventDashboard

//EventDashboard.jsx (features/event/EventDashboard)

Events[] → stateful

isOpen → Stateful

import React, {Component} from 'react'
import {Grid} from 'semantic-ui-react'

class EventDashboard extends Component {

render() {

return (

<Grid>

<Grid.Column width={10}> → props

<EventList events={eventsFromDashboard}/> ⌘ + P = search and open the file

</Grid.Column>

can be initials

<Grid.Column width={6}>

<Button positive content='Create Event' />

<EventForm />

</Grid.Column>

</Grid>

)

3

}

export default EventDashboard;

// EventForm.jsx (features/event/EventForm)

Forms manage state → Stateful

```
import React, { Component } from 'react'

class EventForm extends Component {
  render() {
    return (
      <Segment>
        <Form>
          <Form.Field>
            <Label> Event Title </label>
            <input placeholder="First Name" />
          </Form.Field>
          <Form.Field>
            <Label> Event Date </label>
            <input type='date' placeholder='Event Date' />
          </Form.Field>
          <Form.Field>
            <Label> City </label>
            <input placeholder="City event is taking place" />
          </Form.Field>
          <Form.Field>
            <Label> Venue </label>
            <input placeholder="Enter the venue of the event" />
          </Form.Field>
          <Form.Field>
            <Label> Hosted By </label>
            <input placeholder="Enter the name of person hosting" />
          </Form.Field>
          <Button positive type='submit'>
            Submit
          </Button>
          <Button type='button'> Cancel </Button>
        </Form>
      </Segment>
    )
  }
}

export default EventForm;
```

// EventList.jsx (features/event/EventList)
import React, { Component, Fragment } from 'react'

class EventList extends Component {
 render() {
 return (
 <Fragment>
 {this.props.events.map(event => (

 <EventListItem key={event.id} event={event}/>
))}
 </Fragment>
)
 }

 export default EventList;

props passed down by parents → No state

// EventList.js (features/event/EventList) props passed down by parents → No state

```

import React, { Component } from 'react'

class EventListItem extends Component {
  const { event } = this.props // get event out of this.props
  render() {
    return (
      <Segment.Group>
        <Segment>
          <Item.Group>
            <Item>
              <Item.Image size="tiny" circular src={event.hostPhotoURL} />
              <Item.Content>
                <Item.Header as="a">{event.title}</Item.Header>
                <Item.Description>
                  Hosted by <a>{event.hostedBy}</a>
                </Item.Description>
                <Item.Content>
                </Item>
              </Item>
            </Item.Group>
          </Segment>
          <Segment>
            <Span>
              <Icon name="clock"/> {event.date}
              <Icon name="marker"/> {event.venue}
            </Span>
          </Segment>
          <Segment secondary>
            <List horizontal> * Ctrl + space ⇒ Auto Import
              {event.attendees.map(attendee =>
                <EventListAttendee key={attendee.id} attendee={attendee} />
              ))
            </List>
          </Segment>
          <Segment clearing>
            <Span> {event.description} </Span>
            <Button as="a" color="teal" floated="right" content="View" />
          </Segment>
        </Segment.Group>
    )
  }
}

export default EventListItem;

```

// EventListAttendee.jsx (features/event/EventList)

import React, { Component } from 'react'

import { List, Image } from 'semantic-ui-react'

class EventListAttendee extends Component {

render() {

const { attendee } = this.props;

return (

<List.Item>

<Image as='a' size='tiny' circular src={attendee.photoURL} />

</List.Item>

)

}

}

export default EventListAttendee;

props passed down by parents → No state

// NavBar.jsx (features/nav/NavBar)

rely on user interaction \Rightarrow Stateful

```
import React, {Component} from 'react'

class NavBar extends Component {
  render() {
    return (
      <Menu inverted fixed='top'>
        <Container>
          <Menu.Item header>
            <img src='assets/logo.png' alt='logo' />
            Re-vents
          </Menu.Item>
          <Menu.Item name='Events'>
            <Menu.Item>
              <Button floated='right' positive inverted content='Create Event' />
            </Menu.Item>
            <Menu.Item position='right'>
              <Button basic inverted content='Login' />
              <Button
                basic
                inverted
                content='Sign Out'
                style={{marginLeft: '0.5em'}}>
                />
            </Menu.Item>
          </Container>
        </Menu>
      )
    }
}

export default NavBar;
```

11 index.css (src)

```
body {  
    background-color: Drgb(234,234,234) !important;  
}  
  
.Ui.menu .item img.Logo {  
    margin-right: 1.5em;  
}  
  
.Ui.fixed.menu {  
    background-image: linear-gradient(  
        135deg,  
        Drgb(24,42,115) 0%,  
        Drgb(33,138,174) 69%,  
        Drgb(32,167,172) 89%,  
    ) !important;  
}  
  
.Ui.main.container,  
.main.segment {  
    margin-top: 7em;  
}
```

