**ImageList**

**Here we have 3 components App,SearchInput,Imagelist.**

**Concepts covered: class based component, this keyword, use of arrow function to avoid bind(),async await,axios.get method,api calls, forms, handler, child to parent communication using handler**

**Step 1: App.js**

import logo from './logo.svg';

import './App.css';

import SearchInput from './SearchInput';

function App() {

return (

<div className='ui container' style={{marginTop: '30px'}}>

<SearchInput />

</div>

);

}

export default App;

**SearchInput.js**

import React from 'react';

class SearchInput extends React.Component{

render(){

return(

<diV className='ui segment'>

<form className='ui form' >

<div className='field'>

<div className='ui massive icon input'>

<input type="text" placeholder='search..'/>

<i className='search icon'></i>

</div>

</div>

</form>

</diV>

)

}

}

export default SearchInput;

Step 2:

import React from 'react';

class SearchInput extends React.Component{

// onInputChange(event){

// console.log(event.target.value)

// }

render(){

return(

<diV className='ui segment'>

<form className='ui form' >

<div className='field'>

<div className='ui massive icon input'>

<input type="text"

placeholder='search..'

onChange= {(event) =>console.log(event.target.value) }/>

<i className='search icon'></i>

</div>

</div>

</form>

</diV>

)

}

}

export default SearchInput;

Step 3:

import React from 'react';

class SearchInput extends React.Component{

constructor(){

super()

this.onFormSubmit = this.onFormSubmit.bind(this)

}

// onInputChange(event){

// console.log(event.target.value)

// }

onFormSubmit(event){

event.preventDefault()

console.log(this.state.entry)

}

state = {entry: ''}

render(){

return(

<diV className='ui segment'>

<form onSubmit={this.onFormSubmit} className='ui form' >

<div className='field'>

<div className='ui massive icon input'>

<input type="text"

placeholder='search..'

onChange= {(event) => this.setState({entry: event.target.value}) }

value={this.state.entry}/>

<i className='search icon'></i>

</div>

</div>

</form>

</diV>

)

}

}

export default SearchInput;

**Step 4: Communicating child to parent**

**import React from 'react';**

**App.js**

import logo from './logo.svg';

import './App.css';

import SearchInput from './SearchInput';

import React from 'react'

class App extends React.Component {

onSearchsubmit = (entry) => {

console.log(entry)

}

render(){

return (

<div className='ui container' style={{marginTop: '30px'}}>

<SearchInput />

</div>

);}

}

export default App;

**SearchInput .js**

class SearchInput extends React.Component{

state = {entry: ''}

// constructor(){

// super()

// this.onFormSubmit = this.onFormSubmit.bind(this)

// }

// onInputChange(event){

// console.log(event.target.value)

// }

onFormSubmit = (event) => {

event.preventDefault()

//console.log(this.state.entry)

this.props.onSearchSubmit(this.state.entry)

}

render(){

return(

<div className='ui segment'>

<form onSubmit={this.onFormSubmit} className='ui form'>

<div className='field'>

<div className='ui massive icon input'>

<input type='text'

placeholder='search...'

onChange={(event) => this.setState({entry:event.target.value})}

value={this.state.entry} />

<i className='search icon'></i>

</div>

</div>

</form>

</div>

)

}

}

export default SearchInput**;**

**Step 5: fetching data and using asyn await**

**command : npm install axios**

import logo from './logo.svg';

import './App.css';

import SearchInput from './SearchInput';

import React from 'react'

import axios from 'axios';

class App extends React.Component {

async onSearchSubmit(entry) {

const response = await axios.get(`https://pixabay.com/api/?key=21429387-64bb8c861155ab906b139b2ba&q=${entry}&image\_type=photo`)

console.log(response.data.hits)

}

render(){

return (

<div className='ui container' style={{marginTop: '30px'}}>

<SearchInput onSearchSubmit={this.onSearchSubmit} />

</div>

);}

}

export default App;

**Step 6: Setting the state**

import logo from './logo.svg';

import './App.css';

import SearchInput from './SearchInput';

import React from 'react'

import axios from 'axios';

class App extends React.Component {

state = { images: []}

onSearchSubmit = async (entry) => {

const response = await axios.get(`https://pixabay.com/api/?key=21429387-64bb8c861155ab906b139b2ba&q=${entry}&image\_type=photo`)

console.log(response.data.hits)

this.setState({images:response.data.hits})

}

render(){

return (

<div className='ui container' style={{marginTop: '30px'}}>

<SearchInput onSearchSubmit={this.onSearchSubmit} />

We have {this.state.images.length} images

</div>

);}

}

**export default App;**

**Step 7: App.js**

import logo from './logo.svg';

import './App.css';

import SearchInput from './SearchInput';

import React from 'react'

import axios from 'axios';

import ImageList from './ImageList';

class App extends React.Component {

state = { images: []}

onSearchSubmit = async (entry) => {

const response = await axios.get(`https://pixabay.com/api/?key=21429387-64bb8c861155ab906b139b2ba&q=${entry}&image\_type=photo`)

console.log(response.data.hits)

this.setState({images:response.data.hits})

}

render(){

return (

<div className='ui container' style={{marginTop: '30px'}}>

<SearchInput onSearchSubmit={this.onSearchSubmit} />

We have {this.state.images.length} images

<ImageList images={this.state.images} />

</div>

);}

}

export default App;

**imageList.js**

import React from 'react';

const ImageList = (props) => {

const images = props.images.map((img) => {

return <img src={img.webformatURL} alt="image" />

})

console.log(props)

return(

<div>{images}</div>

)

}

**export default ImageList;**