Lesson 10

REACT FORMS AND ROUTING

FORMS

Simple entry form

```
React App
import React, { useState } from 'react';
                                                             ← → C ① localhost:3000
export const FormPage = () =>{
                                                                 Enter your information
    const [name, setName] = useState('');
    const [email, setEmail] = useState('');
                                                                   John Doe
    let formpage = (
                                                                   jd@gmail.com
       <form>
          <h3>Enter your information</h3>
                                                                          Submit
          <div>
                                                                     Name = John Doe
             <input</pre>
               type="text"
                                                                   Email = jd@gmail.com
               placeholder="Name"
               value={name}
               onChange={e => setName(e.target.value)} />
         </div>
          <div>
             <input</pre>
               type="text"
               placeholder="Email"
               value={email}
               onChange={e => setEmail(e.target.value)} />
          </div>
```

Simple entry form

```
<button onClick={e => {
     alert(`Your name is ${name}, your email is ${email}`);
         e.preventDefault();
     }}>Submit</button>
     Name = {name}
                                                                                          Email = {email}
                                                         React App
   </form>
                                                                 (i) localhost:3000
                                                          localhost:3000 says
return formpage;
                                                          Your name is John Doe, your email is jd@gmail.com
                                                                                         OK
                                                               John Doe
                                                               jd@gmail.com
                                                                        Submit
                                                                  Name = John Doe
                                                               Email = jd@gmail.com
```

Complex entry form

```
(i) localhost:3000
import React, { useState } from 'react';
                                                                Enter your information
export const FormPage = () => {
   const [name, setName] = useState('');
                                                           Name
                                                                 Frank Brown
   const [country, setCountry] = useState('');
                                                          Country
                                                                      Russia Y
   const [haircolor, setHaircolor] = useState('');
                                                          Hair color
                                                                      Black
                                                                                  O Brown
   let formpage = (
                                                                  Name = Frank Brown
      <div>
                                                                    Country = Russia
         <form>
            <h3>Enter your information</h3>
                                                                    Haircolor = Black
            Name
                   <input
                      type="text"
                      value={name}
                      onChange={e => setName(e.target.value)} />
```

Complex entry form

```
Country
   <telect
      type="text"
      value={country}
      onChange={e => setCountry(e.target.value)} >
      <option>USA</option>
      <option>India</option>
      <option>China</option>
      <option>Russia
                                             React App
   </select>
                                             ← → C ① localhost:3000
   Enter your information
                                                   Frank Brown
                                             Name
                                             Country
                                                         Russia Y
                                            Hair color
                                                         Black
                                                                     O Brown
                                                     Name = Frank Brown
                                                      Country = Russia
                                                      Haircolor = Black
```

Complex entry form

```
Hair color
               <input
                  type="radio"
                  value="Black"
                  checked={haircolor === "Black"}
                  onChange={e => setHaircolor(e.target.value)}
               />Black
               td><input
                  type="radio"
                  value="Brown"
                  checked={haircolor === "Brown"}
                  onChange={e => setHaircolor(e.target.value)}
               />Brown
            React App
         </form>
                                                                Enter your information
                                                            Name
                                                                 Frank Brown
      p>Name = \{name\} 
                                                                     Russia ∨
                                                            Country
      Country = {country}
                                                                      Black
                                                           Hair color
                                                                               O Brown
      Haircolor = {haircolor}
   </div>
                                                                  Name = Frank Brown
);
                                                                   Country = Russia
return formpage;
                                                                   Haircolor = Black
```

```
import React, { useState } from 'react';
import './Calculator.css'
export const Calculator = () => {
                                                               State of the calculator
    const [first, setFirst] = useState(0);
    const [second, setSecond] = useState(0);
    const [operator, setOperator] = useState('');
    const [result, setResult] = useState(0);
                                                                                            \square \times
                                                          React App
    . . .
                                                         ← → C (i) localhost:3000
                                                                       Calculator
                                                          First number
                                                                         6
                                                          Second number 9
                                                          Operator
                                                                         multiply ~
                                                                            Submit
                                                          Result
                                                                         54
```

← → C ① localhost:3000

Calculator

```
First number
                                                6
const [first, setFirst] = useState(0);
                                       Second number 9
const [second, setSecond] = useState(0);
                                       Operator
                                                 multiply ~
let calcpage = (
                                                  Submit
   <>
                                       Result
                                                54
      <h3>Calculator</h3>
      First number
            <input
               type="text"
               name="first"
               value={first}
               Second number
            <input
               type="text"
               name="second"
               value={second}
               onChange={e => setSecond(e.target.value)} />
```

```
const [operator, setOperator] = useState('');
Operator
    <telect
        type="text"
        name="operator"
        value={operator}
        onChange={e => setOperator(e.target.value)} >
        <option>add</option>
        <option>subtract</option>
        <option>multiply</option>
        <option>divide</option>
                                                                    <option>clear</option>
                                          React App
                                               (i) localhost:3000
    </select>
Calculator
                                           First number
                                           Second number 9
                                          Operator
                                                      multiply ~
                                                        Submit
                                          Result
                                                      54
```

```
{ e => {
    switch(operator) {
        case "add":
            setResult(parseInt(first) + parseInt(second));
          break;
        case "subtract":
            setResult(parseInt(first) - parseInt(second));
          break;
        case "multiply":
            setResult(parseInt(first) * parseInt(second));
          break:
        case "divide":
            setResult(parseInt(first) / parseInt(second));
          break;
                                                          React App
          case "clear":
                                                          ← → C ① localhost:3000
            setResult(0);
                                                                    Calculator
          break;
        default:
                                                          First number
                                                                      6
            setResult(∅);
                                                          Second number 9
                                                          Operator
                                                                      multiply ~
}}>Submit</button>
                                                                        Submit
                                                          Result
                                                                      54
```

```
const [result, setResult] = useState(0);
            Result
               {result}
           </>>
                                                                          \square \times
);
                                           React App
return calcpage;
                                                 ① localhost:3000
                                                       Calculator
                                            First number
                                                          6
                                            Second number 9
                                            Operator
                                                          multiply ~
                                                            Submit
                                            Result
                                                         54
```

Main point

• Forms are easy to create in React by connection individual form controls to state variables. *Everything in creation is connected in the unified field of pure Consciousness*.

ROUTING

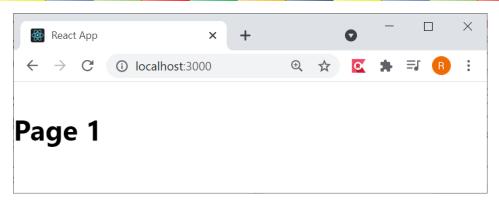
3 pages

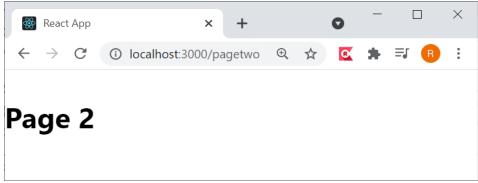
Routing

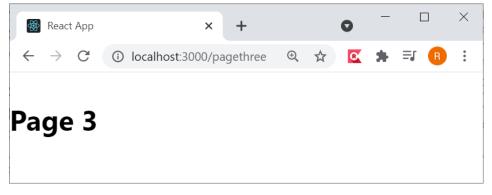
Import BrowserRouter, Routes and Route component

```
import { BrowserRouter, Routes, Route } from 'react-router-dom';
import { Pageone, Pagetwo, Pagethree } from './pages';
import './App.css';
                                                              Import pages from index.js in the
function App() {
                                                              ./pages folder
 return (
    <div>
      <BrowserRouter>
        <Routes>
          <Route path="/" element={<Pageone />} />
          <Route path="/pageone" element={<Pageone />} />
          <Route path="/pagetwo" element={<Pagetwo />} />
          <Route path="/pagethree" element={<Pagethree />} />
        </Routes>
      </BrowserRouter>
    </div>
  );
export default App;
```

Routing





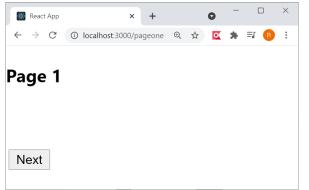


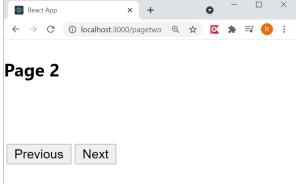
17

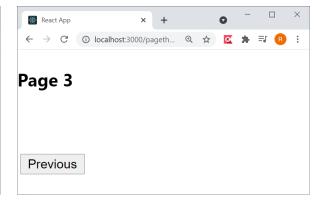
Routing with Links

```
import React from 'react';
import { Link } from "react-router-dom";
                                                   Import Link component
export const Pageone = () => {
  let page1 = (
    <>
      <h3>Page 1</h3>
                                                   Use <Link> component
      <Link to="/">Homepage</Link>
      <Link to="/pageone">Page one</Link>
                                                          ← → C (i) localhost:3000/pageone
      <Link to="/pagetwo">Page two</Link>
      <Link to="/pagethree">Page three</Link>
                                                         Page 1
    </>>
                                                         <u>Homepage</u>
  return page1;
                                                         <u>Page one</u>
                                                         Page two
                                                         <u>Page three</u>
```

Routing with buttons







Navigation with buttons

```
Import { BrowserRouter, Routes, Route } from 'react-router-dom';
                                                                             App.js
import { Pageone, Pagetwo, Pagethree } from './pages';
import './App.css';
function App() {
  return (
    <div>
      <BrowserRouter>
        <Routes>
          <Route path="/" element={<Pageone />} />
          <Route path="/pageone" element={<Pageone />} />
          <Route path="/pagetwo" element={<Pagetwo />} />
          <Route path="/pagethree" element={<Pagethree />} />
        </Routes>
      </BrowserRouter>
    </div>
  );
                                        Component that
                                        is shown
export default App;
```

index.js

```
import React from 'react'; index.js

export {Pageone} from './Pageone';
export {Pagetwo} from './Pagetwo';
export {Pagethree} from './Pagethree';
```

App.js

```
import {BrowserRouter as Router, Route} from 'react-router-dom';
import {Pageone, Pagetwo, Pagethree} from './pages';
import './App.css';

Import all pages
from index.js in
the ./pages
folder
```

Pageone.js

```
import React from 'react';
import {useNavigate} from 'react-router-dom';
export const Pageone = () => {
  const navigate = useNavigate();
  const gotoNextPage = () => {
                                            Navigate to /pagetwo
     navigate('/pagetwo');
  let page1 = (
    <>
       <h3>Page 1</h3>
       <br />
       <br />
       <button onClick={gotoNextPage}>Next</button>
                                                                         \leftarrow \rightarrow C ① localhost:3000/pageone \bigcirc \diamondsuit \bigcirc \bigcirc \bigcirc \bigcirc
     </>>
  );
                                                                        Page 1
  return page1;
                                                                         Next
```

Pagetwo.js

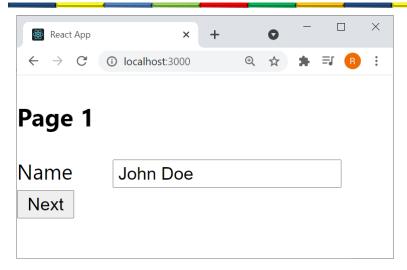
```
Import React from 'react';
                                                        React App
import { useNavigate } from 'react-router-dom';
                                                        \leftarrow \rightarrow C (i) localhost:3000/pagetwo \oplus \bigstar \bigcirc \bigstar \bigcirc \bigcirc
                                                       Page 2
export const Pagetwo = () => {
 const navigate = useNavigate();
 const gotoPreviousPage = () => {
    navigate('/');
                                                        Previous
                                                               Next
 const gotoNextPage = () => {
    navigate('/pagethree');
 let page2 = (
    <>
     <h3>Page 2</h3>
     <br />
     <br />
     >
          <button onClick={gotoNextPage}>Next</button>
        </>>
 return page2;
```

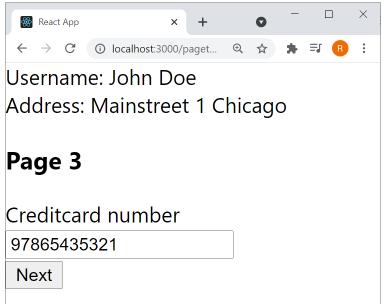
Pagethree.js

```
import React from 'react';
                                                       React App
import { useNavigate } from 'react-router-dom';
                                                      \leftarrow \rightarrow C (i) localhost:3000/pageth... \oplus \bigstar (ii) \blacksquare
                                                     Page 3
export const Pagethree = () => {
 const navigate = useNavigate();
 const gotoPreviousPage = () => {
   navigate('/pagetwo');
                                                       Previous
 let page3 = (
   <>
     <h3>Page 3</h3>
     <br />
     <br />
     </>>
 return page3;
```

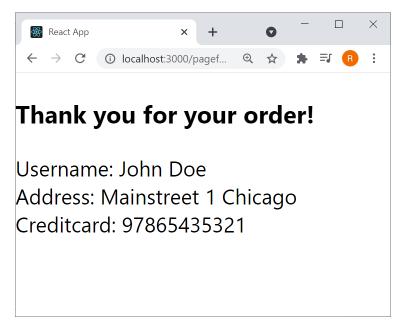
ROUTING WITH STATE

Routing with state









Pageone.js

```
import React, { useState } from 'react';
import {useNavigate} from 'react-router-dom';
export const Pageone = () => {
  const navigate = useNavigate();
  const [username, setUsername] = useState("");
  const gotoNextPage = () => {
    navigate('/pagetwo', {state:{username:username}});
                                                           React App
  let page1 = (
                                                           ← → C ① localhost:3000
                                                                               ⊕ ☆
                                     Pass the
    <>
                                     username to
      <h3>Page 1</h3>
                                                          Page 1
                                     pagetwo
      <div>
        Name
                                                          Name
                                                                   John Doe
          <input</pre>
          type="text"
                                                           Next
          placeholder="Username"
          value={username}
          onChange={e => setUsername(e.target.value)} />
      </div>
      <button onClick={gotoNextPage}>Next</button>
    </>>
  return page1;
                                                                                     27
```

Pagetwo.js

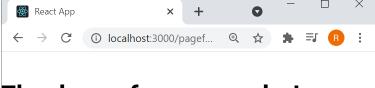
```
import React, { useState } from 'react';
import { useLocation, useNavigate } from 'react-router-dom';
export const Pagetwo = () => {
  const location = useLocation();
  const navigate = useNavigate();
                                                        Get username
  const username = location.state.username;
  const [address, setAddress] = useState("");
  const handleOnSubmit = () =>
      navigate('/pagethree', {state:{username:username, address : address}});
  let page2 = (
    <div>
                                                         Pass the username and
    <div>Username: {username}</div>
                                                         address to pagethree
    <>
      <h3>Page 2</h3>
      <div>
        Address
         <input</pre>
          type="text"
          placeholder="Address"
          value={address}
                                                                ← → C (i) localhost:3000/paget...
                                                                                 ⊕ ☆ 🚓
          onChange={e => setAddress(e.target.value)} />
                                                               Username: John Doe
      </div>
                                                               Page 2
      <button onClick={handleOnSubmit}>Next</button>
    </form>
                                                               Address
                                                                         Mainstreet 1 Chicago
                                                                Next
veturn page2;
```

Pagethree.js

```
import React, { useState } from 'react';
import { useLocation, useNavigate } from 'react-router-dom';
export const Pagethree = (props) => {
  const location = useLocation();
  const navigate = useNavigate();
                                                            Get username
  const username = location.state.username;
  const address = location.state.address;
                                                            Get address
  const [creditcard, setCreditcard] = useState("");
  const handleOnSubmit = () => {
    navigate('/pagefour', {state:{username:username, address : address, creditcard
: creditcard}});
  let page3 = (
    <div>
                                                           Pass the username,
                                                           address and creditcard to
      <div>Username: {username}</div>
      <div>Address: {address}</div>
                                                           pagefour
      <>
        <h3>Page 3</h3>
        <div>
          Creditcard number
            <input</pre>
                                                                    ← → C ① localhost:3000/paget... ④ ☆
             type="text"
                                                                    Username: John Doe
             placeholder="Address"
                                                                   Address: Mainstreet 1 Chicago
             value={creditcard}
             onChange={e => setCreditcard(e.target.value)} />
                                                                   Page 3
        </div>
        <button onClick={handleOnSubmit}>Next</button>
                                                                   Creditcard number
                                                                    97865435321
      </>>
    </div>
                                                                    Next
```

Pagefour.js

```
import React from 'react';
import { useLocation} from 'react-router-dom';
export const Pagefour = (props) => {
  const location = useLocation();
  const username = location.state.username;
  const address = location.state.address;
  const creditcard = location.state.creditcard;
  let page4 = (
    <div>
      <h3>Thank you for your order!</h3>
      <div>Username: {username}</div>
      <div>Address: {address}</div>
      <div>Creditcard: {creditcard}</div>
    </div>
  return page4;
```



Thank you for your order!

Username: John Doe

Address: Mainstreet 1 Chicago

Creditcard: 97865435321

App.js

```
import { BrowserRouter, Routes, Route } from 'react-router-dom';
import { Pageone, Pagetwo, Pagethree, Pagefour } from './pages';
import './App.css';
function App() {
 return (
    <div>
      <BrowserRouter>
        <Routes>
          <Route path="/" element={<Pageone />} />
          <Route path="/pagetwo" element={<Pagetwo />} />
          <Route path="/pagethree" element={<Pagethree />} />
          <Route path="/pagefour" element={<Pagefour />} />
        </Routes>
      </BrowserRouter>
    </div>
  );
export default App;
```

Main point

• The React Router makes it easy to navigate between UI components. Daily contact with pure Consciousness results in more support of Nature in our daily navigation through life.

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Connecting the parts of knowledge with the wholeness of knowledge

- 1. Forms in React store their state in the local component.
- 2. The navigate() function allows to push state to the next page.

- **3. Transcendental consciousness** is the source of all creation.
- 4. Wholeness moving within itself: In Unity Consciousness, one realizes that all relative state is just an expressions of one's own Self.