

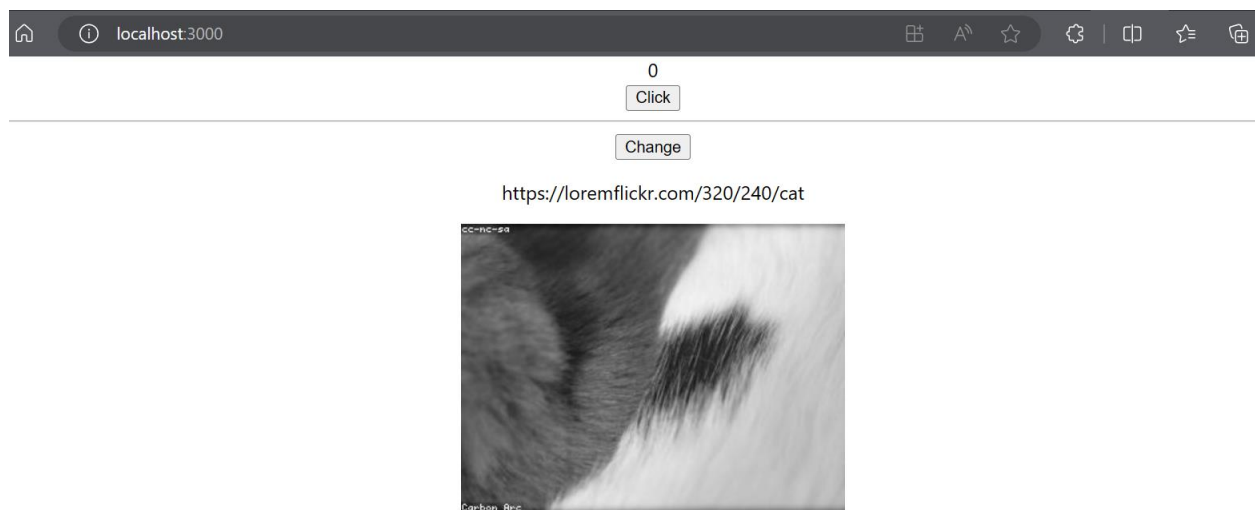
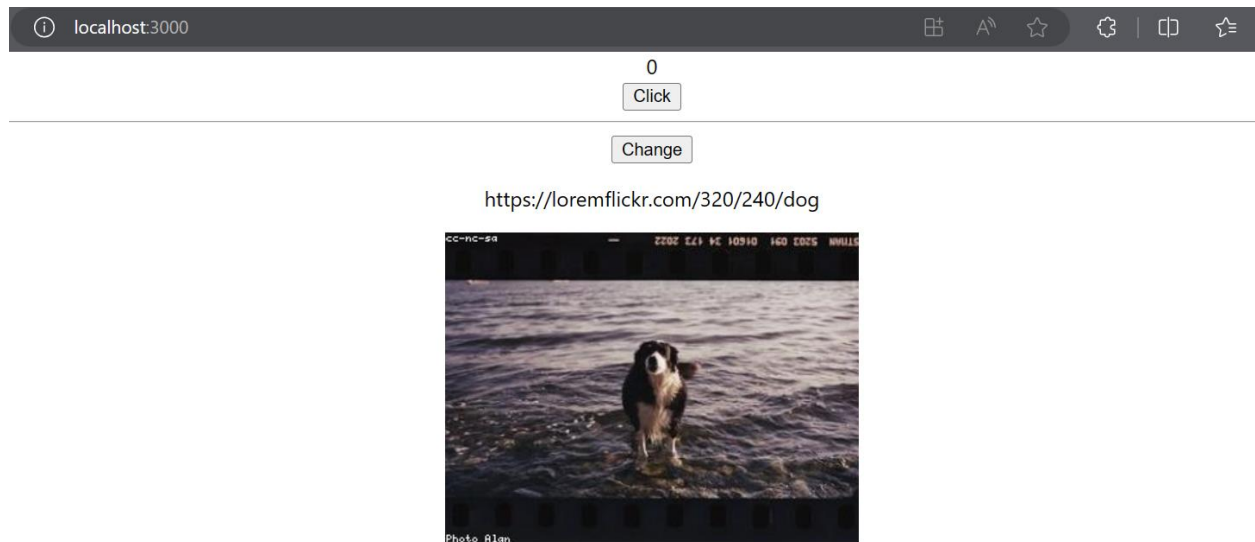
Ex1:



```
1  import "./App.css";
2  import Ex1 from "./Ex1";
3
4  function App() {
5    return (
6      <div className="App">
7        <Ex1/>
8      </div>
9    );
10 }
11
12 export default App;
13
```

```
1 import React, { useEffect, useState } from "react";
2
3 const Ex1 = () => {
4   const [count, setCount] = useState(0);
5   const [type, setType] = useState("dog");
6   const [url, setUrl] = useState(`https://loremflickr.com/320/240/${type}`);
7
8   const changeType = () => {
9     if (type === "dog") {
10       setType("cat");
11     } else {
12       setType("dog");
13     }
14   };
15
16   useEffect(() => {
17     setUrl(`https://loremflickr.com/320/240/${type}`);
18   }, [type]);
19
20   return (
21     <div className="us-page">
22       <div className="result">{count}</div>
23       <button size="lg" onClick={() => setCount(count + 1)}>
24         Click
25       </button>
26       <hr />
27       <button size="lg" onClick={changeType}>
28         Change
29       </button>
30       <p>{url}</p>
31       <img src={url} alt="" />
32     </div>
33   );
34 };
35
36 export default Ex1;
37
```

Here is result:



Ex11:



```
1  import React from "react";
2  import Random from "../Random";
3
4  const App = () => {
5    return (
6      <div>
7        <Random></Random>
8      </div>
9    );
10 };
11
12 export default App;
13
```

```

1  @import url("https://fonts.googleapis.com/css2?family=Mansalva&family=Quicksand:wght@300;400;500;600;700&display=swap");
2
3  * {
4    padding: 0;
5    margin: 0;
6    box-sizing: border-box;
7  }
8
9  body {
10   background-color: #b3ffb2;
11   font-family: 'Quicksand', sans-serif;
12 }
13
14 .joke {
15   margin: 15% auto;
16   width: 40%;
17   text-align: center;
18   background-color: #000;
19   color: #b3ffb2;
20   padding: 40px 30px;
21 }
22
23 .joke i {
24   margin-bottom: 20px;
25   font-size: 32px;
26 }
27
28 .joke p {
29   color: #fff;
30   margin-bottom: 15px;
31 }
32
33 .joke button {
34   padding: 8px 30px;
35   border: none;
36   background-color: #b3ffb2;
37   color: #000;
38   border-radius: 50px;
39   font-weight: 700;
40   position: relative;
41 }
42
43 .joke button .border {
44   position: absolute;
45   border: 2px solid #fff;
46   width: 20px;
47   height: 20px;
48   left: 50%;
49   top: 50%;
50   transform: translate(-50%, -50%);
51   border-radius: 50%;
52   border-right-color: transparent;
53   animation: border 1s infinite linear;
54   opacity: 0;
55 }
56
57 .joke button.active .border {
58   opacity: 1;
59 }
60
61 .joke button.active {
62   opacity: 0.5;
63 }
64
65 .joke button.active .text {
66   opacity: 0;
67 }
68
69 .joke h5 {
70   text-align: center;
71   margin-top: 20px;
72 }
73
74 @keyframes border {
75   from {
76     transform: translate(-50%, -50%) rotate(0);
77   }
78   to {
79     transform: translate(-50%, -50%) rotate(360deg);
80   }
81 }
82

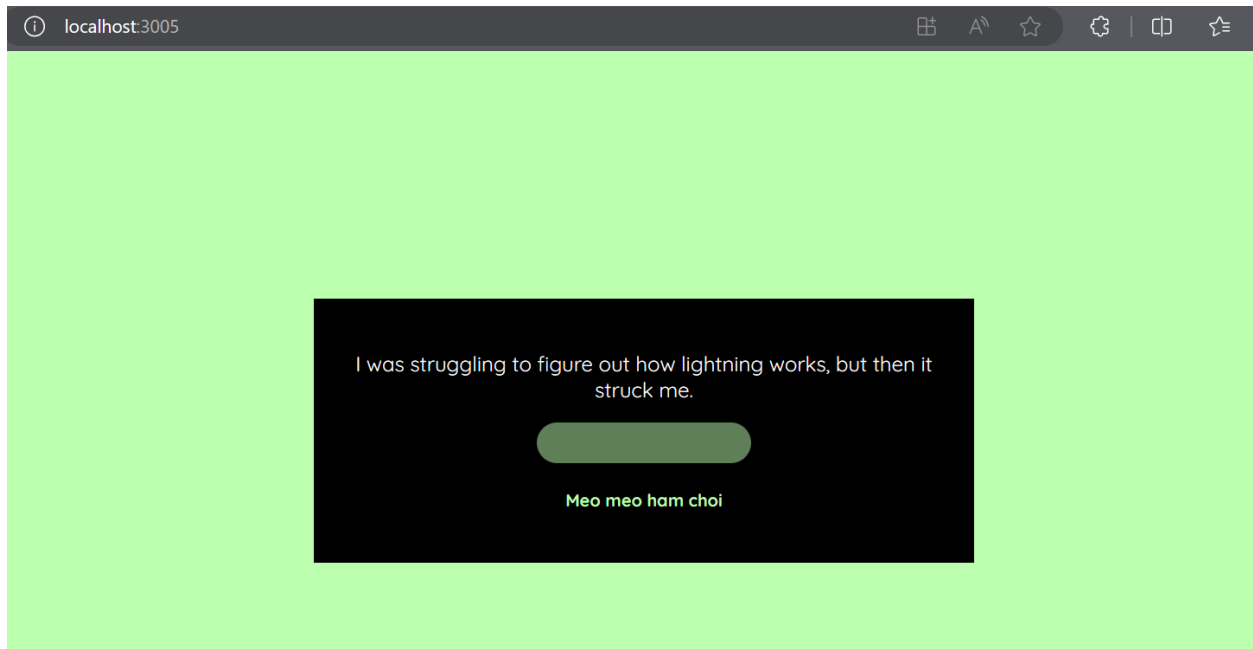
```

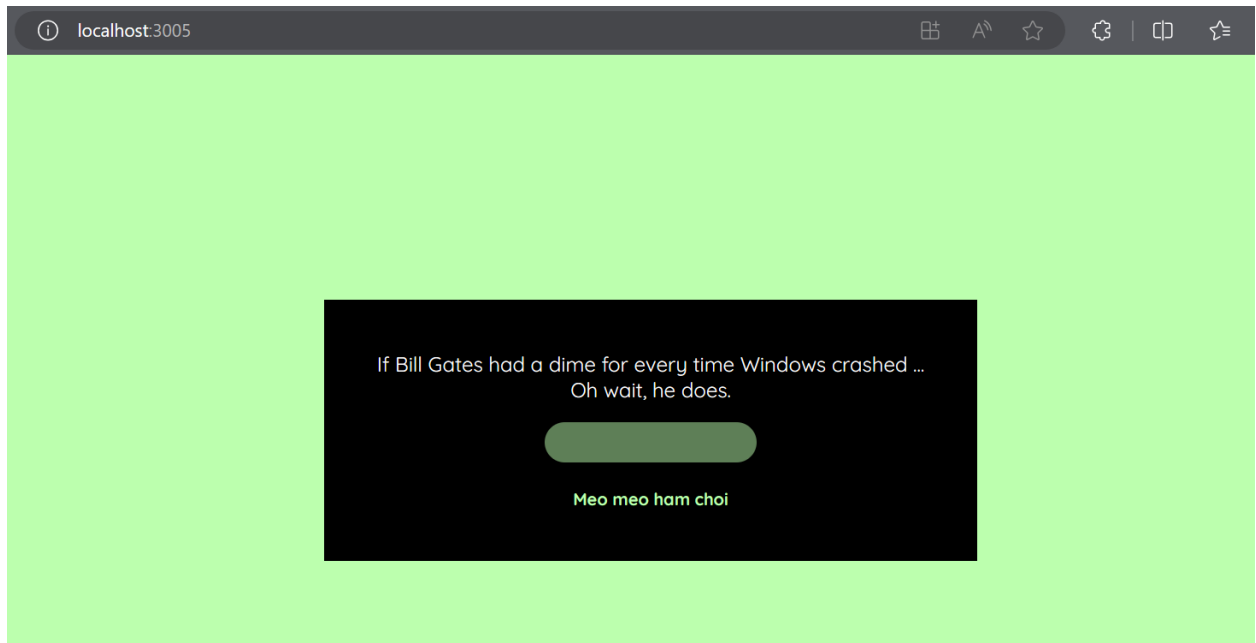
```

1  import React, { useEffect, useState } from "react";
2  import "./Random.css";
3
4  const Random = () => {
5    const [joke, setJoke] = useState({});
6    const [loading, setLoading] = useState(false);
7
8    const randomJoke = async () => {
9      setLoading(true);
10     const res = await fetch("https://v2.jokeapi.dev/joke/Any?blacklistFlags=nsfw,religious,political,racist,sexist&explicit&type=single");
11     const data = await res.json();
12     setJoke(data);
13     setLoading(false);
14   };
15
16   useEffect(() => {
17     randomJoke();
18   }, []);
19
20   return (
21     <div className="joke">
22       <i className="fa-solid fa-face-laugh-beam"></i>
23       <p>{joke.joke}</p>
24       <button onClick={randomJoke} className={` ${loading ? "loading" : ""} active`>
25         <span className="border-span"></span>
26         <span className="text">Get random joke</span>
27       </button>
28       <h5>Meo meo ham choi</h5>
29     </div>
30   );
31 };
32
33 export default Random;

```

Here is result:





Ex 12:



```
1  import React, { Suspense } from "react";
2  import "./App.css";
3  import Lazy from "./Lazy";
4  import Spinner from "./Spinner";
5
6  function App() {
7    return (
8      <div>
9        <Suspense fallback={<Spinner />}>
10         <Lazy />
11       </Suspense>
12     </div>
13   );
14 }
15
16 export default App;
17
```




```
1  import React, { useEffect, useState } from "react";
2
3  const Ex1 = () => {
4    const [count, setCount] = useState(0);
5    const [type, setType] = useState("dog");
6    const [url, setUrl] = useState(`https://loremflickr.com/320/240/${type}`);
7
8    const changeType = () => {
9      if (type === "dog") {
10        setType("cat");
11      } else {
12        setType("dog");
13      }
14    };
15
16    useEffect(() => {
17      setUrl(`https://loremflickr.com/320/240/${type}`);
18    }, [type]);
19
20    return (
21      <div className="us-page">
22        <div className="result">{count}</div>
23        <button size="lg" onClick={() => setCount(count + 1)}>
24          Click
25        </button>
26        <hr />
27        <button size="lg" onClick={changeType}>
28          Change
29        </button>
30        <p>{url}</p>
31        <img src={url} alt="" />
32      </div>
33    );
34  };
35
36  export default Ex1;
37
```

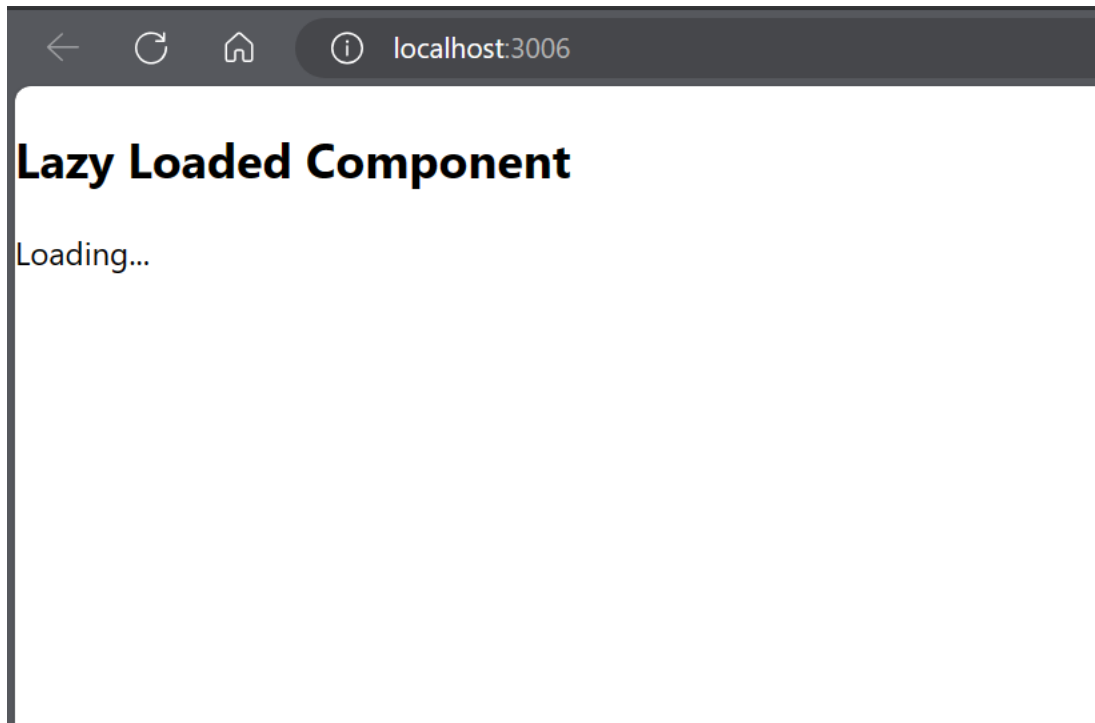


```
1 import React, { useEffect, useState } from "react";
2 import Spinner from "../Spinner";
3
4 const Lazy = () => {
5   const [data, setData] = useState(null);
6
7   useEffect(() => {
8     const fetchData = async () => {
9       try {
10         // Simulating API call delay
11         await new Promise((resolve) => setTimeout(resolve, 2000));
12
13         // Fetch data from the API
14         const response = await fetch("https://jsonplaceholder.typicode.com/posts");
15         const result = await response.json();
16
17         // Set the data
18         setData(result);
19       } catch (error) {
20         console.error("Error fetching data:", error);
21       }
22     };
23
24     fetchData();
25   }, []);
26
27   return (
28     <div>
29       <h2>Lazy Loaded Component</h2>
30       {data ? (
31         <ul>
32           {data.map((item) => (
33             <li key={item.id}>{item.title}</li>
34           ))}
35         </ul>
36       ) : (
37         <Spinner />
38       )}
39     </div>
40   );
41 };
42
43 export default Lazy;
44
```



```
1 import React from "react";
2
3 const Spinner = () => {
4   return <div className="spinner">Loading...</div>;
5 };
6
7 export default Spinner;
8
```

Here is result:



Lazy Loaded Component

- sunt aut facere repellat provident occaecati excepturi optio reprehenderit
- qui est esse
- ea molestias quasi exercitationem repellat qui ipsa sit aut
- eum et est occaecati
- nesciunt quas odio
- dolore eum magni eos aperiam quia
- magnam facilis autem
- dolore dolore est ipsam
- nesciunt iure omnis dolore tempora et accusantium
- optio molestias id quia eum
- et ea vero quia laudantium autem
- in quibusdam tempore odit est dolore
- dolorum ut in voluptas mollitia et saepe quo animi
- voluptatem eligendi optio
- eveniet quod temporibus
- sint suscipit perspiciatis velit dolorum rerum ipsa laboriosam odio
- fugit voluptas sed molestias voluptatem provident
- voluptate et itaque vero tempora molestiae
- adipisci placeat illum aut reiciendis qui
- doloribus ad provident suscipit at
- asperiores ea ipsam voluptatibus modi minima quia sint
- dolor sint quo a velit explicabo quia nam
- maxime id vitae nihil numquam
- autem hic labore sunt dolores incidunt
- rem alias distinctio quo quis
- est et quae odit qui non
- quasi id et eos tenetur aut quo autem
- delectus ullam et corporis nulla voluptas sequi

Ex13:



```
1  import React, { Suspense } from "react";
2  import "./App.css";
3  import SidebarPeople from "./SidebarPeople";
4
5  function App() {
6    return (
7      <div>
8        <SidebarPeople/>
9      </div>
10   );
11 }
12
13 export default App;
14
```

```
1  const peopleData = [
2    { id: 1, name: "John Doe", address: "123 Main St", department: "HR" },
3    { id: 2, name: "Jane Smith", address: "456 Oak St", department: "IT" },
4    { id: 3, name: "Bob Johnson", address: "789 Pine St", department: "Finance" },
5    { id: 4, name: "Alice Williams", address: "101 Cedar St", department: "Marketing" },
6    { id: 5, name: "Charlie Brown", address: "202 Elm St", department: "Operations" },
7    { id: 6, name: "Eva Davis", address: "303 Birch St", department: "HR" },
8    { id: 7, name: "Frank Miller", address: "404 Maple St", department: "IT" },
9    { id: 8, name: "Grace Wilson", address: "505 Walnut St", department: "Finance" },
10   { id: 9, name: "Henry Lee", address: "606 Chestnut St", department: "Marketing" },
11   { id: 10, name: "Isabel Garcia", address: "707 Pine St", department: "Operations" },
12 ];
13
14 export default peopleData;
15
```

```
1  import React from "react";
2  import { useParams } from "react-router-dom";
3  import dataPeople from "../dataPeople";
4
5  const PeopleInfo = () => {
6    const idPeople = useParams();
7    const infoPeople = dataPeople.find((item) => item.id === Number(idPeople.slug));
8
9    return (
10     <div className="peopleInfo">
11       <h1>{infoPeople.name}</h1>
12       <ul>
13         <li>ID: <span>{infoPeople.id}</span></li>
14         <li>Address: <span>{infoPeople.address}</span></li>
15         <li>Department: <span>{infoPeople.department}</span></li>
16       </ul>
17     </div>
18   );
19 };
20
21 export default PeopleInfo;
22
```



```
1  import React from "react";
2  import { Routes, Route, NavLink } from "react-router-dom";
3  import "./people.css";
4  import dataPeople from "./dataPeople";
5  import PeopleInfo from "./PeopleInfo";
6
7  const SidebarPeople = () => {
8    return (
9      <div className="People">
10        <div className="behind">
11          <div className="sideBar">
12            <ul>
13              {dataPeople.map((item, index) => (
14                <li>
15                  <NavLink to={` /people/${item.id}`}>{item.name}</NavLink>
16                </li>
17              ))}
18            </ul>
19          </div>
20        </div>
21        <div className="infoPeople">
22          <Routes>
23            <Route path="/people/:slug" element={<PeopleInfo />} />
24          </Routes>
25        </div>
26      </div>
27    );
28  };
29
30  export default SidebarPeople;
31
```

Ex14:



```
1  import "./App.css";
2  import SelectInput from "./SelectInput";
3  import TextInput from "./TextInput";
4
5  function App() {
6    return (
7      <div>
8        <TextInput></TextInput>
9        <SelectInput></SelectInput>
10     </div>
11   );
12 }
13
14 export default App;
15
```



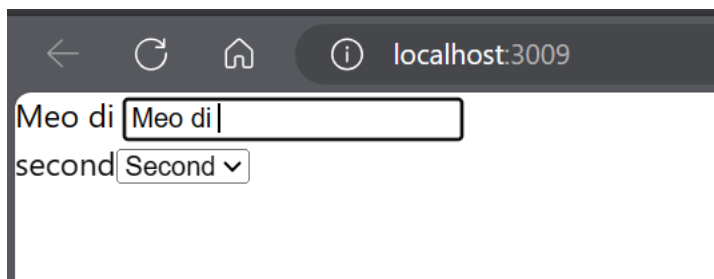
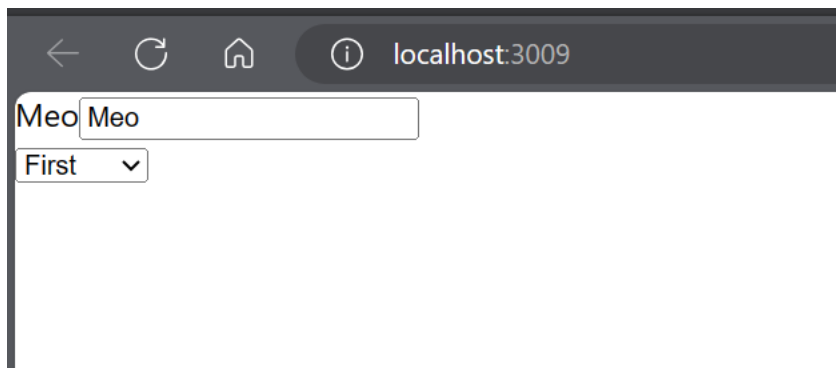

```
1  import React, { useState } from "react";
2
3  const SelectInput = () => {
4    const [select, setSelect] = useState("");
5
6    return (
7      <div>
8        {select}
9        <select onChange={(e) => setSelect(e.target.value)}>
10         <option value="first">First</option>
11         <option value="second">Second</option>
12         <option value="third">Third</option>
13       </select>
14     </div>
15   );
16 };
17
18 export default SelectInput;
19
```

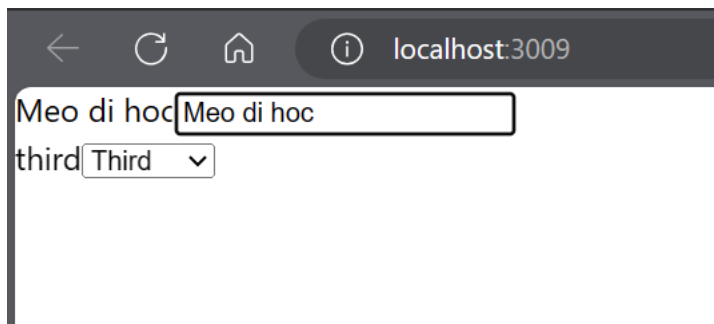
```

1  import React, { useState } from "react";
2
3  const TextInput = () => {
4    const [input, setInput] = useState("");
5
6    return (
7      <div>
8        {input}
9        <input type="text" onChange={(e) => setInput(e.target.value)} />
10     </div>
11   );
12 };
13
14 export default TextInput;
15

```

Here is result:





Ex15:

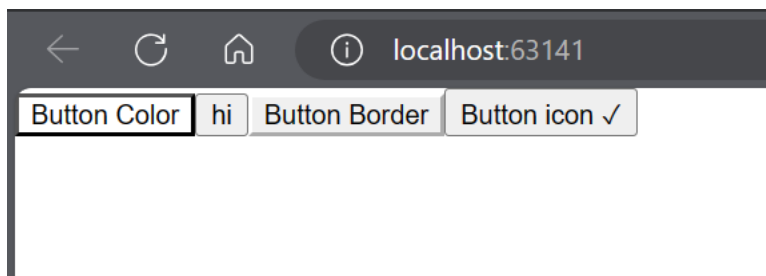
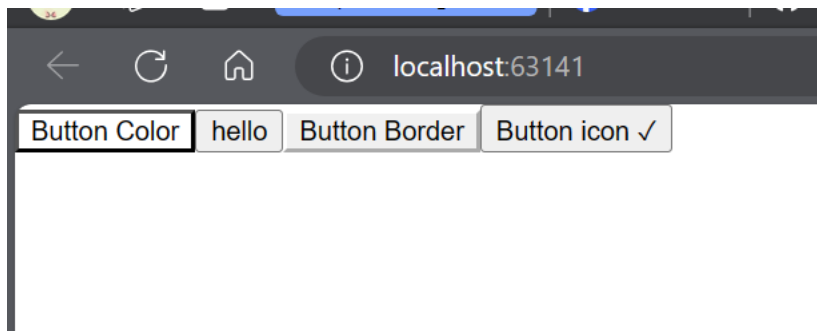
```
1 import './App.css';
2 import ButtonStyle from './ButtonStyle';
3
4 function App() {
5   return (
6     <div>
7       <ButtonStyle></ButtonStyle>
8     </div>
9   );
10 }
11
12 export default App;
13
```

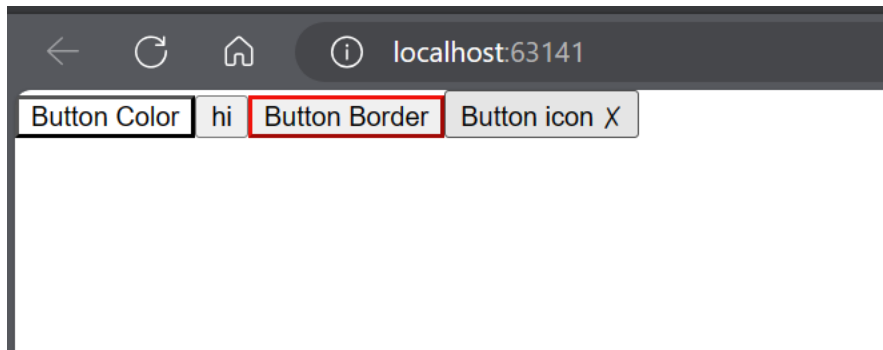
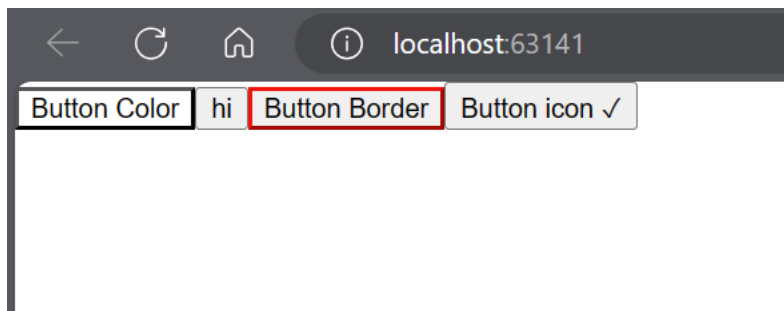
```

1  import React, { useState } from "react";
2
3  const ButtonStyle = () => {
4    const [color, setColor] = useState(false);
5    const [text, setText] = useState("hello");
6    const [border, setBorder] = useState(false);
7    const [icon, setIcon] = useState(true);
8
9    return (
10     <div>
11       <button style={{ "background-color": color ? "red" : "white" }} onClick={() => setColor(!color)}>
12         Button Color
13       </button>
14       <button onClick={() => setText(text === "hello" ? "hi" : "hello")}>{text}</button>
15       <button style={{ "border-color": border ? "red" : "white" }} onClick={() => setBorder(!border)}>
16         Button Border
17       </button>
18       <button onClick={() => setIcon(!icon)}>Button icon {icon ? "✓" : "X"}</button>
19     </div>
20   );
21 };
22
23 export default ButtonStyle;
24

```

Here is result:





Ex16:



```
1  import "./App.css";
2  import ValidateForm from "./ValidateForm";
3
4  function App() {
5    return (
6      <div>
7        <h1>Multiple Fields</h1>
8        <ValidateForm/>
9      </div>
10   );
11 }
12
13 export default App;
14
```

```

1  import React, { useState } from "react";
2
3  const ValidateForm = () => {
4    const [values, setValues] = useState({
5      "address-1": "",
6      "address-2": "",
7      "address-3": "",
8      "address-4": "",
9      price: "",
10     date: "",
11   });
12
13   const [errors, setErrors] = useState({
14     "address-1": "",
15     "address-2": "",
16     "address-3": "",
17     "address-4": "",
18     price: "",
19     date: "",
20   });
21
22   const handleInputChange = (e) => {
23     setValues({
24       ...values,
25       [e.target.name]: e.target.value,
26     });
27   };
28
29   const handleSubmit = (e) => {
30     e.preventDefault();
31     const newErrs = {
32       "address-1": "",
33       "address-2": "",
34       "address-3": "",
35       "address-4": "",
36       price: "",
37       date: "",
38     };
39
40     if (values["address-1"].length < 10) {
41       newErrs["address-1"] = "Too Short!";
42     }
43     if (!values["address-2"]) {
44       newErrs["address-2"] = "Required";
45     }
46     if (!values["address-3"]) {
47       newErrs["address-3"] = "Required";
48     }
49     if (!values["address-4"]) {
50       newErrs["address-4"] = "Required";
51     }
52     if (values["price"] < 102) {
53       newErrs["price"] = "Must be at least 102";
54     }
55     if (!values["date"]) {
56       newErrs["date"] = "Required";
57     }
58     setErrors(newErrs);
59   };
60
61   return (
62     <div className="validate">
63       <form onSubmit={handleSubmit}>
64         <h4>Address 1:</h4>
65         <input type="text" name="address-1" onChange={handleInputChange} />
66         <p style={{ color: "red" }}>{errors["address-1"]}</p>
67         <h4>Address 2:</h4>
68         <input type="text" name="address-2" onChange={handleInputChange} />
69         <p style={{ color: "red" }}>{errors["address-2"]}</p>
70         <h4>Address 3:</h4>
71         <input type="text" name="address-3" onChange={handleInputChange} />
72         <p style={{ color: "red" }}>{errors["address-3"]}</p>
73         <h4>Address 4:</h4>
74         <input type="text" name="address-4" onChange={handleInputChange} />
75         <p style={{ color: "red" }}>{errors["address-4"]}</p>
76         <h4>Price:</h4>
77         <input type="text" name="price" onChange={handleInputChange} />
78         <p style={{ color: "red" }}>{errors["price"]}</p>
79         <h4>Required By:</h4>
80         <input type="date" name="date" onChange={handleInputChange} />
81         <p style={{ color: "red" }}>{errors["date"]}</p>
82         <button>Submit</button>
83       </form>
84     </div>
85   );
86 };
87
88 export default ValidateForm;
89

```

Here is result:



The image shows a mobile browser interface with a dark header bar. The address bar displays a back arrow, a refresh icon, a home icon, an information icon, and the text 'localhost:63271'. Below the header, the page title 'Multiple Fields' is displayed in a large, bold, black font. The form consists of several labeled input fields: 'Address 1:', 'Address 2:', 'Address 3:', 'Address 4:', 'Price:', and 'Required By:'. Each label is followed by a white rectangular input field. The 'Required By:' field includes a date picker icon on its right side. At the bottom of the form is a 'Submit' button.

Multiple Fields

Address 1:

Address 2:





Address 3:

Address 4:

Price:

Required By:

Submit

 localhost:63271

Multiple Fields

Address 1:


Address 2:

Address 3:

Address 4:

Price:

Required By:



Ex17:



```
1  import './App.css';
2  import { useState } from 'react';
3  import useMessages from './useMessages';
4
5  function App() {
6    const [forum, setForum] = useState('nasa');
7    const {
8      data: messages,
9      loading: messagesLoading,
10     error: messagesError,
11   } = useMessages(forum);
12
13   return (
14     <div className="App">
15       <button onClick={() => setForum('nasa')}>NASA</button>
16       <button onClick={() => setForum('notNasa')}>Not NASA</button>
17       {messagesError ? (
18         <div className="error">
19           <div className="error-contents">
20             Something went wrong:
21             <div className="error-message">{messagesError.message}</div>
22           </div>
23         </div>
24       ) : messagesLoading ? (
25         <div className="loading">Loading...</div>
26       ) : messages && messages.length ? (
27         <dl>
28           {messages.map((m) => (
29             <React.Fragment key={m.id}>
30               <dt>{m.author}</dt>
31               <dd>{m.text}</dd>
32             </React.Fragment>
33           ))}
34         </dl>
35       ) : (
36         'No messages'
37       )}
38     </div>
39   );
40 }
41
42 export default App;
```



```
1 import { useEffect, useState } from 'react';
2
3 const useMessages = (forum) => {
4   const [data, setData] = useState([]);
5   const [loading, setLoading] = useState(false);
6   const [error, setError] = useState();
7
8   useEffect(() => {
9     let didCancel = false;
10    setError(null);
11    (async () => {
12      try {
13        setLoading(true);
14        const response = await fetch(`/messages/${forum}`);
15        if (!response.ok) {
16          const text = await response.text();
17          throw new Error(`Unable to read messages for ${forum}: ${text}`);
18        }
19        const body = await response.json();
20        if (!didCancel) {
21          setData(body);
22        }
23      } catch (err) {
24        if (!didCancel) {
25          setError(err);
26        }
27      } finally {
28        if (!didCancel) {
29          setLoading(false);
30        }
31      }
32    })();
33    return () => {
34      didCancel = true;
35    };
36  }, [forum]);
37
38  return { data, loading, error };
39 };
40
41 export default useMessages;
```

Ex2:



```
1  import './App.css';
2  import DatingCards from './DatingCards';
3  import Header from './Header';
4  import SwipeButtons from './SwipeButtons';
5
6  function App() {
7    return (
8      <div className="app">
9        <Header />
10       <DatingCards />
11       <SwipeButtons />
12     </div>
13   );
14 }
15
16 export default App;
17
```



```
1 import React, { useState, useEffect } from 'react';
2 import TinderCard from 'react-tinder-card';
3 import './DatingCards.css';
4 import axios from './axios';
5
6 const DatingCards = () => {
7   const [people, setPeople] = useState([]);
8
9   useEffect(() => {
10     async function fetchData() {
11       const req = await axios.get('/dating/cards');
12       setPeople(req.data);
13     }
14
15     fetchData();
16   }, []);
17
18   const swiped = (direction, nameToDelete) => {
19     console.log("receiving " + nameToDelete);
20   }
21
22   const outOfFrame = (name) => {
23     console.log(name + " left the screen!");
24   }
25
26   return (
27     <div className="datingCards">
28       <div className="datingCards__container">
29         {people.map((person) => (
30           <TinderCard
31             className="swipe"
32             key={person.name}
33             preventSwipe={['up', 'down']}
34             onSwipe={(dir) => swiped(dir, person.name)}
35             onCardLeftScreen={() => outOfFrame(person.name)}
36           >
37             <div
38               style={{ backgroundImage: `url(${person.imgUrl})` }}
39               className="card"
40             >
41               <h3>{person.name}</h3>
42             </div>
43           </TinderCard>
44         ))}
45       </div>
46     </div>
47   );
48 }
49
50 export default DatingCards;
51
```

GitHubLink: <https://github.com/amenosakura/ReactVer2>



```
1  import React from 'react';
2  import './SwipeButtons.css';
3  import ReplayIcon from '@material-ui/icons/Replay';
4  import CloseIcon from '@material-ui/icons/Close';
5  import StarRateIcon from '@material-ui/icons/StarRate';
6  import FavoriteIcon from '@material-ui/icons/Favorite';
7  import FlashOnIcon from '@material-ui/icons/FlashOn';
8  import IconButton from '@material-ui/core/IconButton';
9
10 const SwipeButtons = () => {
11   return (
12     <div className="swipeButtons">
13       <IconButton className="swipeButtons__repeat">
14         <ReplayIcon fontSize="large" />
15       </IconButton>
16       <IconButton className="swipeButtons__left">
17         <CloseIcon fontSize="large" />
18       </IconButton>
19       <IconButton className="swipeButtons__star">
20         <StarRateIcon fontSize="large" />
21       </IconButton>
22       <IconButton className="swipeButtons__right">
23         <FavoriteIcon fontSize="large" />
24       </IconButton>
25       <IconButton className="swipeButtons__lightning">
26         <FlashOnIcon fontSize="large" />
27       </IconButton>
28     </div>
29   );
30 }
31
32 export default SwipeButtons;
33
```



```
1 import React from 'react';
2 import './Header.css';
3 import PersonIcon from '@material-ui/icons/Person';
4 import IconButton from '@material-ui/core/IconButton';
5 import ForumIcon from '@material-ui/icons/Forum';
6
7 const Header = () => {
8   return (
9     <div className="header">
10       <IconButton>
11         <PersonIcon fontSize="large" className="header__icon" />
12       </IconButton>
13       
14       <IconButton>
15         <ForumIcon fontSize="large" className="header__icon" />
16       </IconButton>
17     </div>
18   );
19 }
20
21 export default Header;
22
```