React Keeper App Project

```
src > components > ⚛ Header.jsx > [∅] default
1    import React from 'react'
2
3    function Header() {
4        return <header className='Header'>
5            <h1>Keeper App Project</h1>
6            </header>;
7    }
8
9    export default Header;
```

```
src > components > ⚛ Footer.jsx > ◈ Footer
1     import React from 'react'
2
3     const currentYear = new Date().getFullYear();
4
5     function Footer(){
6         return <footer className='Footer'>
7             <p>Copyright © {currentYear}.</p>
8         </footer>;
9     }
10
11    export default Footer;
```

JS insertion

```jsx
import React, { useState } from "react";

function CreateArea(props) {
  // complex state - object
  const [note,setNote] = useState(
    {
      title: "",
      content: "",
    }
  );

  function handleChange(event) {
    const {name,value} = event.target;
    setNote(prevNote =>{
      return {
        ...prevNote, //keeps all props of object like title,content
        [name]: value, //dynamic object key generation based on input user types
      };
    });
  }

  // when button is clicked the data inside the state note will be sent to App.jsx
  function submitNote(event) {
    // from App.jsx
    props.onAdd(note); //passing the current created note
    // after note created we are clearing it
    setNote({
      title: "",
      content: "",
    })
    event.preventDefault(); //prevents reload
  }
```

from App.jsx

```jsx
  return (
    <div>
      <form>
        <input name="title" value={note.title} onChange={handleChange} placeholder="Title" />
        <textarea name="content" value={note.content} onChange={handleChange} placeholder="Take a note..." rows="3" />
        <button onClick={submitNote}>Add</button>
      </form>
    </div>
  );
}

export default CreateArea;
```

```jsx
import React from "react";

function Note(props) {

  function handleClick() {
    props.onDelete(props.id);
  }


  return (
    <div className="note">
      <h1>{props.title}</h1>
      <p>{props.content}</p>
      <button onClick={handleClick}>DELETE</button>
    </div>
  );
}

export default Note;
```

from App.jsx

```jsx
 1    import React, { useState } from "react";
 2    import Header from "./components/Header";
 3    import CreateArea from "./components/CreateArea";
 4    import Footer from "./components/Footer";
 5    import Note from "./components/note";
 6
 7    function App() {
 8
 9      const [notes, setNotes] = useState([]); //notes has default value of an array
10
11      // Adds a new note to the notes array
12      function addNote(newNote) {
13        setNotes(prevNotes => {
14          // [...prevNotes, newNote] creates a new array
15          return [
16            ...prevNotes,    // copy all existing notes
17            newNote          // add the new note at the end
18          ];
19        });
20      }
21
```

```jsx
    function deleteNote(id) {
      setNotes(prevNotes => {
        return prevNotes.filter((noteItem, index)=>{
          return index !== id;
        });
      });
    }
```

Passed to CreateArea

```jsx
30      return (
31        <div>
32          <Header />
33          <CreateArea
34          // passing function as prop
35          onAdd= {addNote}
36          />
37          {/* index is auto-generated by map. */}
38          {notes.map((noteItem, index)=>{
39            return <Note
40            key= {index} // key helps React optimize rendering
41            id={index} // passing index to identify note for deletion
42            title= {noteItem.title}
43            content = {noteItem.content}
44            onDelete= {deleteNote}
45            />
46          })}
47          <Footer />
48        </div>
49      );
50    }
51
52    export default App;
53
```

Passed to Note