## **FULLSTACK - EXPERIMENT-3.2**

**Experiment: Library Management UI with Search, Add, and Remove Book Functionality** 

## **AIM**

Build an interactive library management interface using React that allows users to view, search, add, and remove books dynamically without reloading the page.

## CODE

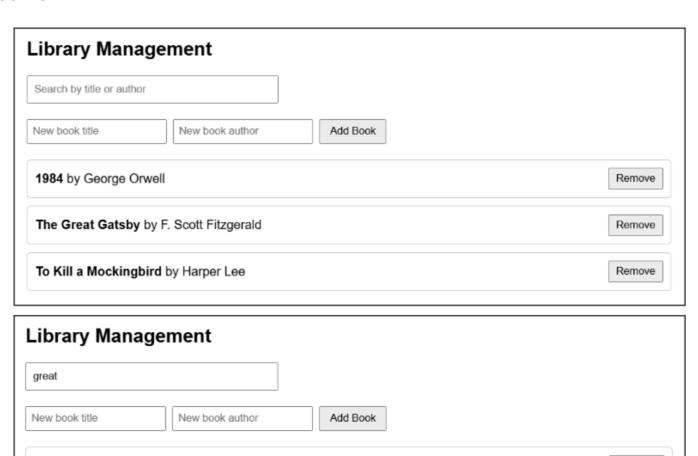
```
import React, { useState } from 'react';
import './Library.css';
function Library() {
 const [books, setBooks] = useState([
   { title: '1984', author: 'George Orwell' },
    { title: 'The Great Gatsby', author: 'F. Scott Fitzgerald' },
    { title: 'To Kill a Mockingbird', author: 'Harper Lee' }
 const [search, setSearch] = useState('');
 const [newTitle, setNewTitle] = useState('');
 const [newAuthor, setNewAuthor] = useState('');
 const addBook = () => {
   if (newTitle && newAuthor) {
     setBooks([...books, { title: newTitle, author: newAuthor }]);
     setNewTitle('');
     setNewAuthor('');
   }
 };
 const removeBook = (index) => {
   setBooks(books.filter((_, i) => i !== index));
 };
 const filteredBooks = books.filter(book =>
   book.title.toLowerCase().includes(search.toLowerCase()) | |
   book.author.toLowerCase().includes(search.toLowerCase())
 );
 return (
   <div className="library">
     <h1>Library Management</h1>
     <input
       type="text"
       placeholder="Search by title or author"
       value={search}
       onChange={e => setSearch(e.target.value)}
      />
```

```
<div className="add-book">
        <input
         type="text"
         placeholder="New book title"
         value={newTitle}
         onChange={e => setNewTitle(e.target.value)}
        />
       <input
         type="text"
         placeholder="New book author"
         value={newAuthor}
         onChange={e => setNewAuthor(e.target.value)}
        <button onClick={addBook}>Add Book</button>
      </div>
      <l
        {filteredBooks.map((book, index) => (
         key={index}>
           <strong>{book.title}</strong> by {book.author}
           <button onClick={() => removeBook(index)}>Remove</button>
         ))}
      </div>
 );
export default Library;
/* Library.css */
.library {
 font-family: Arial, sans-serif;
 max-width: 600px;
 margin: auto;
.library input {
 padding: 8px;
 margin: 5px;
.add-book input {
 width: 40%;
button {
 padding: 8px 12px;
 margin-left: 5px;
 cursor: pointer;
ul {
 list-style: none;
 padding: 0;
```

```
}
li {
  display: flex;
  justify-content: space-between;
  padding: 10px;
  border: 1px solid #ddd;
  margin: 5px 0;
  border-radius: 5px;
}
```

## **OUTPUT**

The Great Gatsby by F. Scott Fitzgerald



Remove