# **Experiment No. 5**

Roll No.	21
Name	Prajwal Kasbale
Class	D15A
Subject	Full Stack Development
Lab Outcome	Create secure, production-ready <b>RESTful APIs</b>
Date of Performance/ Submission	
Signature & Grades	

#### Code:-

# App.tsx:-

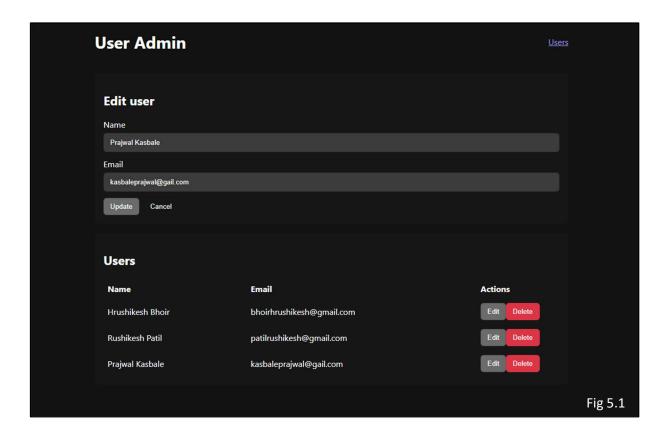
```
import { Route, Routes, NavLink } from 'react-router-dom';
     import UsersPage from './pages/UsersPage';
     export default function App() {
       return (
         <div className="container">
           <nav className="navbar">
             <h1>User Admin</h1>
             <NavLink to="/" end>Users</NavLink>
           </nav>
11
           <Routes>
             <Route path="/" element={<UsersPage />} />
12
13
           </Routes>
14
15
       );
16
```

#### Style.css:-

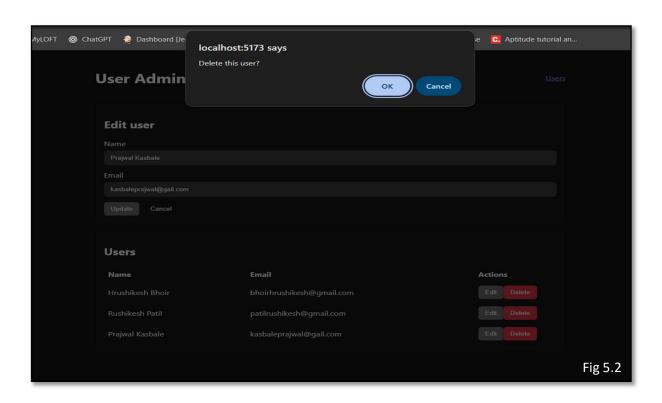
#### Pages/UserPage.tsx:-

```
import { useEffect, useMemo, useState } from 'react';
import { createUser, deleteUser, fetchUsers, updateUser, type User } from '../api/client';
type FormState = { name: string; email: string };
export default function UsersPage() {
 const [users, setUsers] = useState<User[]>([]);
 const [loading, setLoading] = useState(true);
 const [error, setError] = useState<string | null>(null);
  const [editingId, setEditingId] = useState<string | null>(null);
  const [form, setForm] = useState FormState ({ name: '', email: '' });
  async function load() {
   setLoading(true);
    setError(null);
     const data = await fetchUsers();
     setUsers(data);
    } catch (e: any) {
    setError(e?.message ?? 'Failed to load users');
     setLoading(false);
  useEffect(() => {
   load();
  function onEdit(user: User) {
    setEditingId(user._id ?? null);
    setForm({ name: user.name, email: user.email });
  function onCancel() {
    setEditingId(null);
    setForm({ name: '', email: '' });
  async function onSubmit(e: React.FormEvent) {
    e.preventDefault();
     if (editingId) {
        const updated = await updateUser(editingId, form);
        setUsers(prev => prev.map(u => (u._id === editingId ? updated : u)));
      } else {
```

# Output:-



### Delete User:-



# Add User:-

