Worksheet 3

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Branch: MCA   **Section/Group :- 1/A**

Semester: 3rd   **Date of Performance: 16/09/2023**

Subject Name: Backend   **Subject Code: 22CAH-706**

Q. **Create a Signup page and store the inputted data by user in file.**

1. **Aim/Overview of the practical:**

   Create a Signup page and store the inputted data by user in file.

2. **Task to be done:**

   - Create SignUp page
   - Create Login Page
   - Add data in data base when user signup
   - Login via same data

3. **Algorithm/Flowchart :**
   1. Start
   2. Make a directory named exp-3 and created two directories client and server.
   3. In Client folder installed React for client render and for server side used node and express js.
   4. Used some library like axios, dotenv, cors etc.
   5. Created signup ,signin, home pages in react .
   6. Set up routes for application, including the sign-up and sign-in pages, using a library like React Router.
   7. Created server in server directory using express js.
   8. Created api for signup and signin page in
   9. end

4. **Code for experiment/practical:**

   App.js
```
import SignUp from "./components/SignUp";
import SignIn from "./components/SignIn";
import { BrowserRouter as Router, Route, Routes } from 'react-router-dom';
import Home from "./components/Home"
function App() {
```

```jsx
  return (
   <Router>
     <div className="flex flex-col items-center justify-center min-h-screen py-2 bg-gray-100">
      <Routes>
        <Route path="/signup" element={<SignUp />} />
        <Route path="/signin" element={<SignIn />} />
        <Route path="/home" element={<Home />} />
      </Routes>
     </div>
   </Router>
  )}
export default App;
```

Signup.js

```jsx
import React, { useState } from 'react'
import { FaFacebookF, FaLinkedinIn, FaGoogle, FaRegEnvelope } from "react-icons/fa"
import { MdLockOutline } from "react-icons/md"
import { Link } from 'react-router-dom'
import axios from "axios"
import { useNavigate } from 'react-router-dom'
const SignUp = () => {
   const [name, setName] = useState()
   const [email, setEmail] = useState()
   const [confirmemail, setConfirmemail] = useState()
   const [password, setPassword] = useState()
   const navigate = useNavigate();
     const handleSubmit = (e) => {
     e.preventDefault();
     axios.post('http://localhost:3001/signup', { name, email, confirmemail, password })
        .then(result => {
          console.log(result)
          navigate('/signin')
        })
        .catch(err => console.log(err))
   }
   return (
     <form onSubmit={handleSubmit}>
       <div className="flex flex-col items-center justify-center w-full flex-1 px-20 text-center ">
         <div className=" bg-white rounded-2xl shadow-2xl flex w-3/3 max-w-4xl">
            <div className=' w-3/5 p-5'>
              <div className='text-left font-bold'>
                <span className='text-green-500'> worksheet 3 </span>
              </div>
              <div className='py-10'>
                <h2 className='txt-3xl font-bold mb-2 text-green-500'>SignUp</h2>
                <div className='border-2 w-10 border-green-500 inline-block mb-2'></div>
                <div className='flex justify-center my-2'>
                   <a href='/' className=' border-2 border-gray-200 rounded-full  p-3 mx-1'> <FaFacebookF
className='text-sm' /> </a>
```

```jsx
                    <a href='/' className=' border-2 border-gray-200 rounded-full  p-3 mx-1'> <FaLinkedinIn
className='text-sm' /> </a>
                        <a href='/' className=' border-2 border-gray-200 rounded-full  p-3 mx-1'> <FaGoogle className='text-
sm' /> </a>


                </div>
                <p className=' text-gray-400 my-'>or use your email account</p>
                <div className='flex flex-col items-center'>
                    <div className=' flex items-center bg-gray-100 w-64 p-2 mb-3 '><FaRegEnvelope className="text-
gray-400 m-2" />

                        <input type='text' onChange={(e) => setName(e.target.value)} name='name' placeholder='Full Name'
className='bg-gray-100 outline-none flex-1 text-sm' />

                    </div>
                    <div className=' flex items-center bg-gray-100 w-64 p-2 mb-3 '><FaRegEnvelope className="text-
gray-400 m-2" />

                        <input type='email' onChange={(e) => setEmail(e.target.value)} name='email' placeholder='Email'
className='bg-gray-100 outline-none flex-1 text-sm' />

                    </div>
                    <div className=' flex items-center bg-gray-100 w-64 p-2 mb-3 '><FaRegEnvelope className="text-
gray-400 m-2" />

                        <input type='email' onChange={(e) => setConfirmemail(e.target.value)} name='confirmEmail'
placeholder='Confirm Email' className='bg-gray-100 outline-none flex-1 text-sm' />

                    </div>
                    <div className=' flex items-center bg-gray-100 w-64 p-2 '><MdLockOutline className="text-gray-400
m-2" />

                        <input type='password' onChange={(e) => setPassword(e.target.value)} name='password'
placeholder='Password' className='bg-gray-100 outline-none flex-1 text-sm' />

                    </div>

                    <button type='submit' className='border-2 border-green-500 rounded-full text-green-500 px-12 py-2
inline-block font-semibold hover:bg-green-500 hover:text-white'> SignUp</button>
                </div>
              </div>
            </div>
            <div className=' w-2/5 bg-green-500 text-white rounded-tr-2xl rounded-br-2xl py-36 px-12'>
                <h2 className='txt-3xl font-bold mb-2'>Hello </h2>
                <div className='border-2 w-10 border-white inline-block mb-2'></div>
                <p className='mb-10  '>Already Registered ??  </p>
                <Link to="/signin" className='border-2 border-white rounded-full px-12 py-2 inline-block font-semibold
hover:bg-white hover:text-green-500'> Sign In</Link>
            </div>  </div> </div> </form> ) }

export default SignUp
```

Signin.js

```js
import React, { useState } from 'react'
import { FaFacebookF, FaLinkedinIn, FaGoogle, FaRegEnvelope } from "react-icons/fa"
import { MdLockOutline } from "react-icons/md"
import { Link } from 'react-router-dom'
import axios from "axios"
import { useNavigate } from 'react-router-dom'


const SignIn = () => {

  const [email, setEmail] = useState()
  const [password, setPassword] = useState()
  const navigate = useNavigate();
  const handleSubmit = (e) => {
    e.preventDefault();
    axios.post('http://localhost:3001/signin', { email, password })
      .then(result => {
        console.log(result)
        if (result.data === "success") {
          navigate('/home')
        }
      })
      .catch(err => console.log(err))
  }


  return (
    <form onSubmit={handleSubmit}>
      <div className="flex flex-col items-center justify-center w-full flex-1 px-20 text-center ">
        <div className=" bg-white rounded-2xl shadow-2xl flex w-3/3 max-w-4xl">
          <div className=' w-3/5 p-5'>
            <div className='text-left font-bold'>
              <span className='text-green-500'> worksheet 3 </span>
            </div>
            <div className='py-10'>
              <h2 className='txt-3xl font-bold mb-2 text-green-500'>SignIn</h2>
              <div className='border-2 w-10 border-green-500 inline-block mb-2'></div>
              <div className='flex justify-center my-2'>
                <a href='/' className=' border-2 border-gray-200 rounded-full  p-3 mx-1'> <FaFacebookF className='text-sm' /> </a>
                <a href='/' className=' border-2 border-gray-200 rounded-full  p-3 mx-1'> <FaLinkedinIn className='text-sm' /> </a>
                <a href='/' className=' border-2 border-gray-200 rounded-full  p-3 mx-1'> <FaGoogle className='text-sm' /> </a>

              </div>
```

```jsx
                <p className=' text-gray-400 my-'>or use your email account</p>
                <div className='flex flex-col items-center'>
                    <div className=' flex items-center bg-gray-100 w-64 p-2 mb-3 '><FaRegEnvelope className="text-gray-400 m-2" />

                        <input type='email' onChange={(e) => setEmail(e.target.value)} name='email' placeholder='Email' className='bg-gray-100 outline-none flex-1 text-sm' />

                    </div>
                    <div className=' flex items-center bg-gray-100 w-64 p-2 '><MdLockOutline className="text-gray-400 m-2" />

                        <input type='password' onChange={(e) => setPassword(e.target.value)} name='password' placeholder='Password' className='bg-gray-100 outline-none flex-1 text-sm' />

                    </div>
                    <div className='flex justify-between w-64 mb-5'>
                        <label className='flex items-center text-xs '><input type='checkbox' name="remember me" className='mr-2' />Remeber me</label>
                        <a href='/#' className='text-xs '>Forgot Password ?</a>
                    </div>
                    <button type='submit' className='border-2 border-green-500 rounded-full text-green-500 px-12 py-2 inline-block font-semibold hover:bg-green-500 hover:text-white'> SignIn</button>
                </div>
            </div>
        </div>

        <div className=' w--2/5 bg-green-500 text-white rounded-tr-2xl rounded-br-2xl py-36 px-12'>
            <h2 className='txt-3xl font-bold mb-2'>Hello </h2>
            <div className='border-2 w-10 border-white inline-block mb-2'></div>
            <p className='mb-10  '>Fill up information and start journey with us </p>
            <Link to='/signup' className='border-2 border-white rounded-full px-12 py-2 inline-block font-semibold hover:bg-white hover:text-green-500'> Sign UP</Link>
        </div>
      </div>
    </div>
  </form>
  )
}

export default SignIn
```
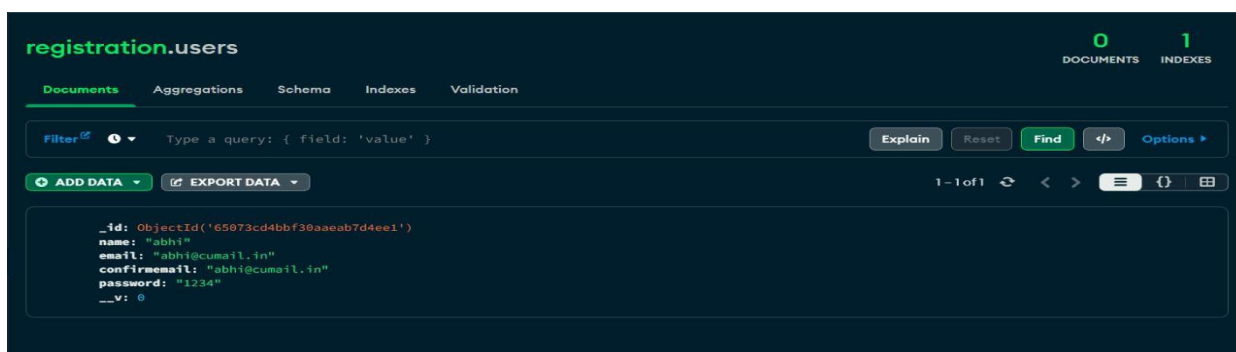
Server.js
```js
const express = require('express')
const mongoose = require('mongoose')
const cors = require('cors')
const UserModel = require('./models/user')
```
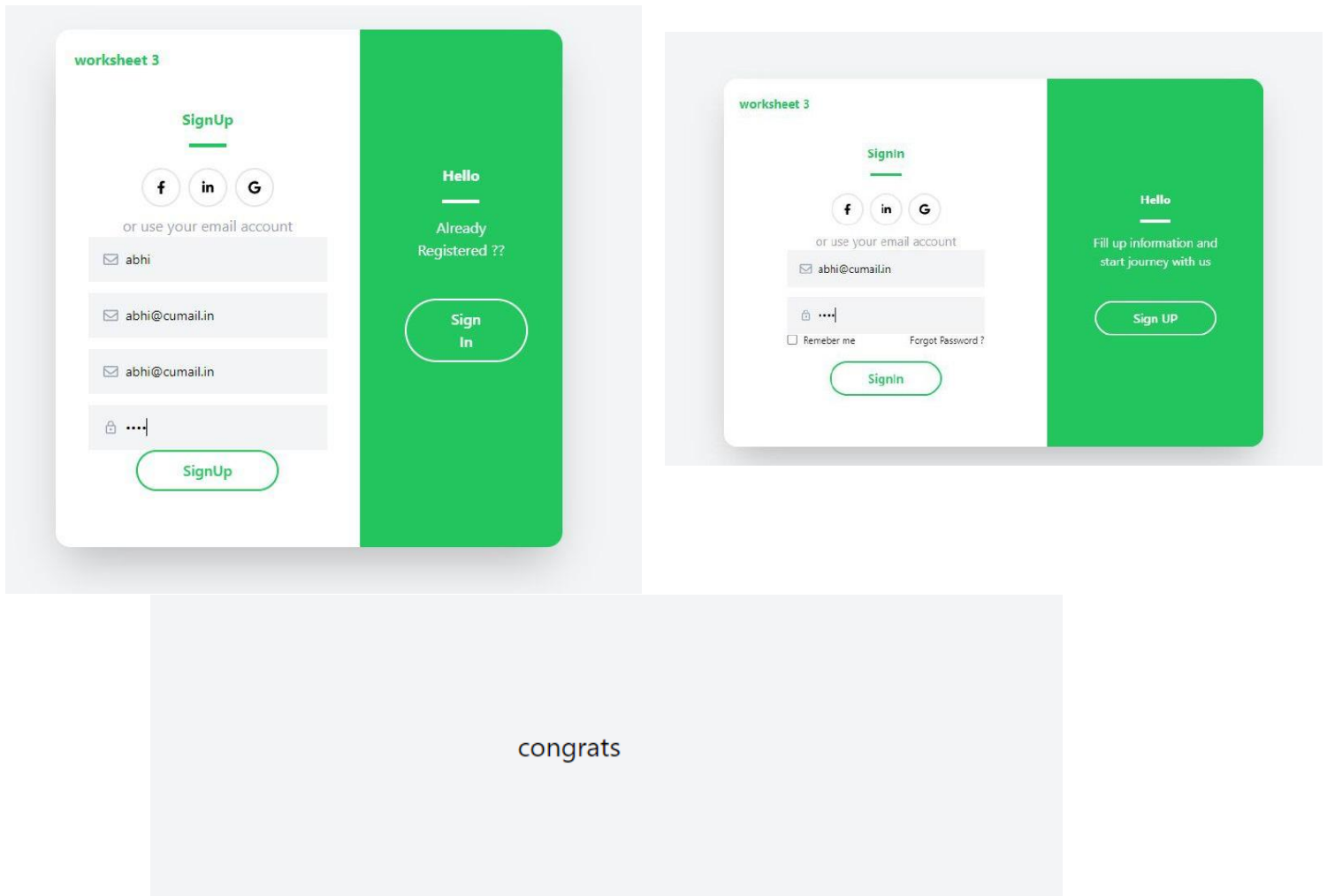
```javascript
const app = express();
app.use(express.json())
app.use(cors())
mongoose.connect("mongodb://127.0.0.1:27017/registration",);
app.post('/signup', (req, res) => {
   UserModel.create(req.body)
      .then(users => res.json(users))
      .catch(err => res.json(err))
});
app.post('/signin', (req, res) => {
   const { email, password } = req.body;
   UserModel.findOne({email })
      .then(user=> {
        if(user){
           if(user.password === password){
              res.json("success");
           }else{
              res.json("The password id incorrect")
           }
        }else{
           res.json("No records")
        }
      })
});
app.listen(3001, () => {
   console.log(`Server is running on port 3001`);
});
```

User.js

```javascript
const mongoose = require("mongoose")
const UserSchema = new mongoose.Schema({
   name: String,
   email: String,
   confirmemail: String,
   password: String
})
const UserModel = mongoose.model("users",UserSchema)
module.exports = UserModel
```

registration.users

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⊕ ADD DATA ▾   ⧉ EXPORT DATA ▾   1-1of1 ⟳ < > ≡ {} ⊞

```
_id: ObjectId('65073cd4bbf30aaeab7d4ee1')
name: "abhi"
email: "abhi@cumail.in"
confirmemail: "abhi@cumail.in"
password: "1234"
__v: 0
```

5. Result/Output/Writing Summary:

Learning outcomes (What I have learnt):

1. Able to learn connect client side and server side at a time.
2. Able to learn authentication process.
3. Able to learn Node.js and Express.js
4. Abel to learn database connectivity.