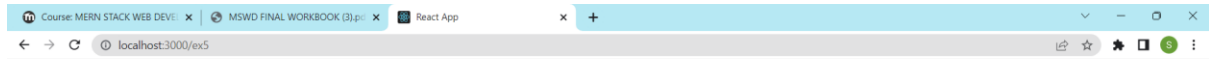


SKILL-5

ID: 2100031023

Name: S Likith Sai Reddy

OUTPUT:



Student ID:
Name:
Dept:
Address:

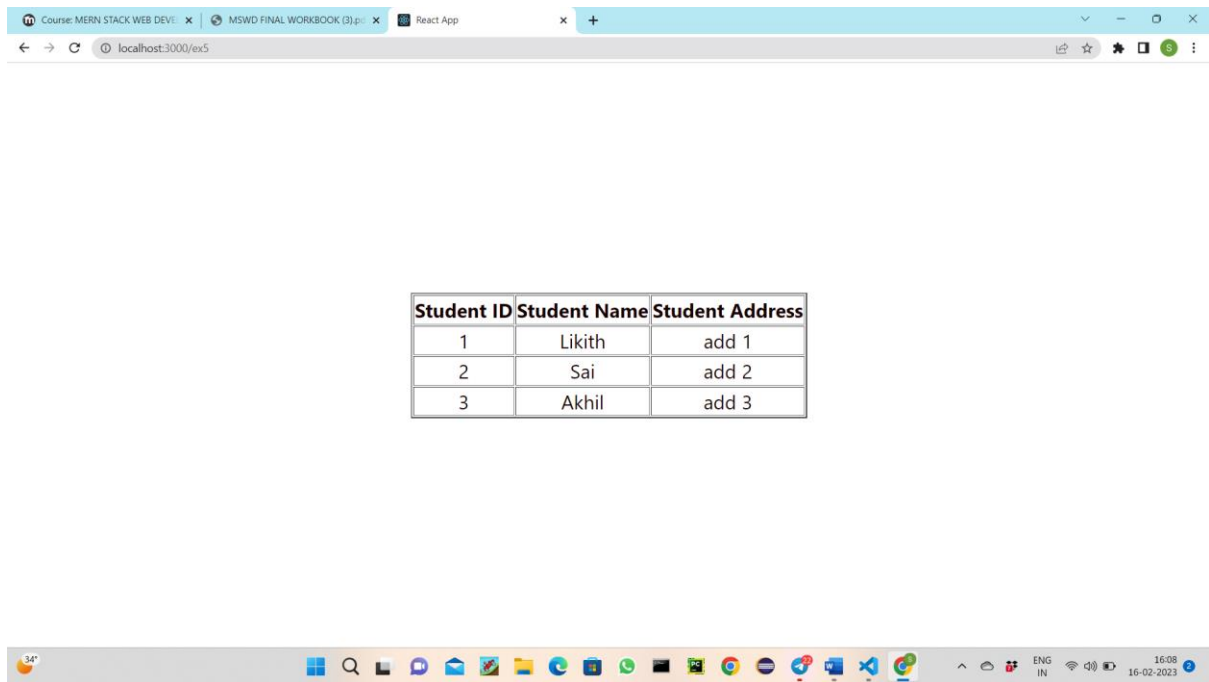


Student ID	Student Name	Students Department	Student Address
1	Likith	CSE	add 1



Student ID	Student Name	Students Department	Student Address
1	Likith	CSE	add 1
2	Sai	ECE	add 2
3	Akhil	MECH	add 3

Student ID	Students Department
1	CSE
2	ECE
3	MECH



App.js:

```
// import logo from './logo.jpg';
// import klu from './klu.png';
import './App.css';
import Ex4 from './components/Ex4.js';
import Ex5 from './components/Ex5';
import { BrowserRouter, Routes, Route } from 'react-router-dom'; //npm i
react-router-dom to install react-router-dom package in client cmd
//BrowserRouter, Routes and Route are used to route from one page to another
like from signup to login etc.
import { Container, Toolbar, AppBar } from '@material-ui/core'; //npm i
@material-ui/core --force to install @material-ui/core package in client cmd

function App() {
  // function opetarion(){
  //   let v1=document.getElementById("Value");
  //   v1.value="1";
  // }
  return(
    <div className="App">

      <div className='App-body'>
        <BrowserRouter>
          <Routes>
            <Route path="/" element={<Ex4 />} />
            <Route path='/ex5' element={<Ex5 />} />
          </Routes>
        </BrowserRouter>
      </div>
    </div>
  )
}
```

```

        </BrowserRouter>
      </div>
    </div>

  );
}

export default App;

```

App.css:

```

.App {
  text-align: center;
}

.App-logo {
  height: 20vmin;
  pointer-events: none;
}

.App-klu {
  height: 50px;
  width: 150px;
  pointer-events: none;
  margin-left: 80px;
  border-radius: 30px;
  margin-right: 5px;
  margin-bottom: 10px;
}

.App-kl{
  display: flex;
  flex-direction: row;
  align-items: center;
  text-align: center;
}

/* .App-header {
  background-color: #282c34;
  min-height: 20vh;
  display: flex;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: white;
}

```

```
} */

.App-Header{
  font-size: 20px;
  margin-bottom: 10px;
}

.App-para{
  font-size: 15px;
  display: flex;
  flex-direction: row;
  align-items: center;
  text-align: center;
}

.App-color{
  background-color: white;
  /* background-color: #15b1ff; */
  border-radius: 30px;
  border :7px solid rgb(116, 116, 197);
  padding: 10px;
}

.App-para1{
  display: flex;
  align-items: center;
  margin-left: 60px;
  color: blue;
  font-weight: bold;
  font-size: 20px;
}

.App-para2{
  display: flex;
  align-items: center;
  color: green;
  margin-left: 70px;
  font-weight: bold;
}

.App-para3{
  display: flex;
  align-items: center;
  margin-left: 20px;
  color: green;
  font-weight: bold;
}
```

```
.App-para4{
  display: flex;
  align-items: center;
  margin-left: 130px;
  color: red;
  font-weight: bold;
}

.App-body {
  background-color:white;
  min-height: 100vh;
  display: flex;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: rgb(21, 1, 1);
}

.App-idcard {
  /* border:1px solid red; */
  background-color: white;
  padding: 20px;
  height: 420px;
  width: 350px;
  display: block;
  align-items: center;
  justify-content: center;
  font-size: calc(10px + 2vmin);
  color: rgb(21, 1, 1);
  /* box-shadow: 10px 10px 5px rgb(60, 206, 255) inset; */
  box-shadow: 0 4px 8px 0 rgb(146, 252, 16), 0 6px 20px 0 rgb(16, 186, 233);
  border-radius: 30px;
  border :7px solid rgb(70, 255, 53);
}

.App-inputval{
  width:200px;
  height: 50px;
  margin-bottom: 10px;
}

.App-plus{
  height: 50px;
  width: 50px;
}

.App-zero{
  height: 50px;
  width: 50px;
}
```

```

margin-right: 50px;
margin-left: 50px;
}

.App-link {
  color: #61dafb;
}

@keyframes App-logo-spin {
  from {
    transform: rotate(0deg);
  }
  to {
    transform: rotate(360deg);
  }
}

```

Ex5.js:

```

import { RepeatOneSharp } from "@mui/icons-material";
import axios from "axios";
import { useState } from "react";

function Ex5() {

  const [result,setResult] = useState(null);
  const [disiddept,setIdDept] = useState(0);
  const [excludedept,setExcludeDept] = useState(0);

  const isDict = dict => {
    return typeof dict === "object" && !Array.isArray(dict);
  };

  var dis_id_dept=0;

  function handleSubmit(event) {
    event.preventDefault();
    const data = new FormData(event.currentTarget);
    console.log(data.get("stu_id"));
    axios.post('http://localhost:8081/insert_stu', {
      id: parseInt(data.get("stu_id")),
      name: data.get("stu_name"),
      dept: data.get("stu_dept"),
      address: data.get("stu_address")
    }).then((resposnse)=>{
      console.log(resposnse.data);
    });
  }
}

```

```

    })
  }

  function showOne() {
    setIdDept(0);
    setExcludeDept(0);
    axios.get('http://localhost:8081/show_one_stu', {params:{

    }}).then((response)=>{
      console.log(response.data)
      setResult(response.data)
    })
  }

  function showAll() {
    setIdDept(0);
    setExcludeDept(0);
    axios.get('http://localhost:8081/show_all', {params:{

    }}).then((response)=>{
      console.log(response.data)
      setResult(response.data)
    })
  }

  function showIdDept(){
    // console.log("hi");
    setIdDept(1);
    setExcludeDept(0);
    console.log(dis_id_dept);
    axios.get('http://localhost:8081/show_all', {params:{

    }}).then((response)=>{
      console.log(response.data)
      setResult(response.data)
    })
  }

  function showExceptDept(){
    setIdDept(0);
    setExcludeDept(1);
    axios.get('http://localhost:8081/show_all', {params:{

    }}).then((response)=>{
      console.log(response.data)
      setResult(response.data)
    })
  }
}

```



```

function showAllAcending(){
    setIdDept(0);
    setExcludeDept(0);
    axios.get('http://localhost:8081/show_ace', {params:{

    }}).then((response)=>{
        console.log(response.data)
        setResult(response.data)
    })
}

if(result == null) {
    return(
        <div>
            <form onSubmit={handleSubmit}>
                Student ID: <input type="text" name="stu_id" />
                <br/>
                Name: <input type="text" name="stu_name" />
                <br/>
                Dept: <input type="text" name="stu_dept" />
                <br/>
                Address: <input type="text" name="stu_address" />
                <br/><br/>
                <input type="submit" value="Save Student Data" />
            </form>
            <br/>
            <button onClick={()=>showOne()}>Display First Student in
Database</button>
            <br/>
            <button onClick={()=>showAll()}>Display All Students</button>
            <br/>
            <button onClick={()=>showIdDept()}>Display Student_ID and
Dept</button>
            <br/>
            <button onClick={()=>showExceptDept()}>Display All Field
Except Department</button>
            <br/>
            <button onClick={()=>showAllAcending()}>Display All Field In
accending order</button>
        </div>
    );
}
else {
    if(isDict(result))
    {
        return (

```


server.js:

```
const express = require('express')
const cors = require('cors')
const { MongoClient } = require('mongodb')
const { request, response } = require('express')

const app = express()
app.use(cors())
app.use(express.json())

const uri =
"mongodb+srv://admin:rocky9886@cluster0.nczlwja.mongodb.net/?retryWrites=true&w=majority"
const client = new MongoClient(uri)
client.connect()
var db = client.db("ex5")
var col = db.collection("c207")

app.get('/', (request, response) => {
  response.send('This is a Server')
})

app.post('/insert', (request, response) => {
  col = db.collection("c207")
  console.log(request.body)
  col.insertOne(request.body)
  response.send(request.body)
})

app.post('/insert_stu', (req, res) => {
  col = db.collection("stu_data")
  console.log(req.body)
  col.insertOne(req.body)
  res.send(req.body)
})

app.patch('/update_stu', (req, res) => {
  col = db.collection("stu_data")
  console.log(req.body)
  const doc = {
    $set: {dept:"BT", address:"Add 10"}
  }
  col.updateOne({id:5}, doc)
  res.send("Updated Successfully")
})

app.get('/show_one_stu', (req, res) => {
```

```

col = db.collection("stu_data")
console.log(req.query)
async function find(){
  try{
    const result=await col.findOne()
    console.log(result)
    if(result == null)
    {
      res.send({"Data_Retrieval":"Fail"})
    }
    else{
      res.send(result)
    }
  }
  finally{}
}
find().catch(console.dir)
})

app.get('/show_all', (req, res)=>{
  col = db.collection("stu_data")
  console.log(req.query)
  async function find(){
    try{
      const result=await col.find().toArray()
      console.log(result)
      if(result == null)
      {
        res.send({"Data_Retrieval":"Fail"})
      }
      else{
        res.send(result)
      }
    }
    finally{}
  }
  find().catch(console.dir)
})

app.get('/show_all_gt1', (req, res)=>{
  col = db.collection("stu_data")
  console.log(req.query)
  async function find(){
    try{
      const result=await
col.find({id:{$gte:1},$or:[{dept:"CSE"},{dept:"ECE"}]}).toArray()
      console.log(result)
      if(result == null)

```

```

        {
            res.send({"Data_Retrieval":"Fail"})
        }
        else{
            res.send(result)
        }
    }
    finally{}
}
find().catch(console.dir)
}))

app.get('/show_ace', (req, res)=>{
    //
https://www.mongodb.com/docs/manual/reference/operator/aggregation/sort/
    col = db.collection("stu_data")
    console.log(req.query)
    async function find(){
        try{
            col.aggregate([{$sort: {name:1}}])
            const result=await col.find().toArray()
            console.log(result)
            if(result == null)
            {
                res.send({"Data_Retrieval":"Fail"})
            }
            else{
                res.send(result)
            }
        }
        finally{}
    }
    find().catch(console.dir)
}))

app.listen(8081)
console.log("server started")

```