DRAG N DROP APP

CLIENT

package.json

```
"name": "client",
"version": "0.1.0",
"private": true,
"dependencies": {
  "@testing-library/jest-dom": "^5.17.0",
 "@testing-library/react": "^13.4.0",
 "@testing-library/user-event": "^13.5.0",
 "dotenv": "^16.4.5",
 "react-dom": "^18.3.1",
 "react-draggable": "^4.4.6",
 "react-redux": "^9.1.2",
 "react-saga": "^0.3.1",
 "react-scripts": "5.0.1",
 "react-toastify": "^10.0.5",
 "web-vitals": "^2.1.4",
 "zustand": "^4.5.5"
"scripts": {
 "start": "react-scripts start",
 "test": "react-scripts test",
 "eject": "react-scripts eject"
"eslintConfig": {
 "extends": [
   "react-app/jest"
},
"browserslist": {
  "production": [
```

```
">0.2%",
    "not dead",
    "not op_mini all"
],
    "development": [
        "last 1 chrome version",
        "last 1 firefox version",
        "last 1 safari version"
]
}
```

index.js

App.js

```
import { useEffect, useState, useRef } from 'react';
import axios from 'axios';
import User from './components/user.component';
import 'react-toastify/dist/ReactToastify.css';
import { toast } from 'react-toastify';
function App() {
 const [data, setData] = useState([]);
 const [loading, setLoading] = useState(true);
 const errorShown = useRef(false);
 const fetchUsersTasks = async () => {
     setLoading(true);
axios.get(`${process.env.REACT APP API URL}/all task usernames`);
     setData(response.data.usersWithTaskTexts);
     setLoading(false);
   } catch (error) {
     if (!errorShown.current) {
       toast.error('Error fetching tasks');
       errorShown.current = true;
      setLoading(false);
 useEffect(() => {
   fetchUsersTasks();
 }, []);
 const moveTask = async (sourceUserId, targetUserId, taskText) => {
axios.post(`${process.env.REACT APP API URL}/move-task`, {
       sourceUserId,
       targetUserId,
```

```
taskText,
     setData((prevUsers) => {
       if (parseInt(sourceUserId, 10) === parseInt(targetUserId, 10)) {
        return prevUsers;
       const updatedUsers = prevUsers.map((user) => {
         if (user.user id === parseInt(sourceUserId, 10)) {
             ...user,
             tasks: user.tasks.filter((task) => task.text !== taskText),
         if (user.user id === parseInt(targetUserId, 10)) {
             ...user,
        return user;
       });
       return updatedUsers;
     });
     console.error('Error moving task:', error.response ?
error.response.data : error.message);
     toast.error('Failed to move task');
```

```
<div className="App bg-zinc-900 h-auto">
Tasks</h1>
     <div className="flex flex-row flex-wrap justify-center items-center</pre>
gap-4 p-4">
       Loading...
        data.map((element) => (
           key={element.user id}
export default App;
```

user

```
import React from 'react';
const User = ({ data, moveTask }) => {
 const handleOnDrop = (e) => {
   e.preventDefault();
   const droppedTaskText = e.dataTransfer.getData('text');
   const sourceUserId = parseInt(e.dataTransfer.getData('user id'));
   const targetUserId = data.user id;
   moveTask(sourceUserId, targetUserId, droppedTaskText);
 const handleOnDragOver = (e) => {
   e.preventDefault(); // Allow drop
 const handleOnDragStart = (e, text, id) => {
   e.dataTransfer.setData('text', text);
   e.dataTransfer.setData('user id', id);
 };
 return (
     className="text-white text-[24px] bg-zinc-700 rounded-lg p-2
m-2 h-[20rem] w-[20rem]"
     onDragOver={handleOnDragOver}
     onDrop={handleOnDrop}
     {data.name}
```

SERVER

```
const express = require('express');
const app = require('./app');
const userRoutes = require('./router/userRoutes');                         // Adjust the path
as necessary
// Middleware to parse JSON
app.use(express.json());
app.use('/api', userRoutes); // Prefix all routes with /api
app.use((err, req, res, next) => {
    res.status(500).json({
        message: 'Internal Server Error',
        error: err.message
    });
});
const PORT = process.env.PORT || 8000;
app.listen(PORT, () => {
    console.log(`Server is listening on port ${PORT}`);
});
```

app.js

```
const express = require('express');
const cors = require('cors'); // Import CORS middleware
const app = express();

// Import routes
const userRoutes = require('./router/userRoutes');

// Middleware setup
app.use(cors());
app.use(express.json());
```

```
app.get('/', (req, res)=>{
    res.end("Server is running");
})

// Route setup
app.use('/api', userRoutes);

app.use((err, req, res, next) => {
    console.error('Error:', err.message);
    res.status(500).json({
        message: 'Internal Server Error',
        error: err.message
    });
});

module.exports = app;
```

userRoutes.js

```
const express = require('express');
const router = express.Router();
const userController = require('../controller/userController')

router.get('/all_users', userController.findAllUsers);
router.get('/all_tasks', userController.findAllTasks);
router.get('/all_usernames', userController.findAllUsersName);
router.get('/all_task_usernames',
userController.fetchTasksWithUserNames);

router.post('/move-task', userController.updateData);

module.exports = router;
```

userController.js

```
const { PrismaClient } = require('@prisma/client');
const Prisma = new PrismaClient();
exports.findAllUsers = async (req, res) => {
       const users = await Prisma.user.findMany(); // No need for
include here
       res.status(200).json({ // Use 200 for success
           message: 'success',
           users
        });
    } catch (error) {
        res.status(500).json({ // Use 500 for server errors
           message: 'fail',
           error: error.message
exports.findAllUsersName = async (req, res) => {
        const users = await Prisma.user.findMany({
            select: {
                name: true
```

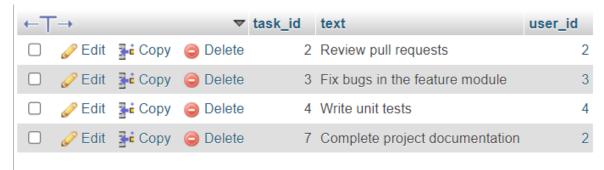
```
res.status(200).json({ // Use 200 for success
           message: 'success',
           users
       });
   } catch (error) {
       console.error('Error fetching users:', error); // Log the
        res.status(500).json({ // Use 500 for server errors
           message: 'fail',
           error: error.message
};
exports.findAllTasks = async (req, res) => {
       const tasks = await Prisma.task.findMany(); // Omit include
       res.status(200).json({
           message: 'success',
           tasks
       });
   } catch (error) {
       console.error('Error fetching tasks:', error); // Log the
       res.status(500).json({
          message: 'fail',
           error: error.message
};
```

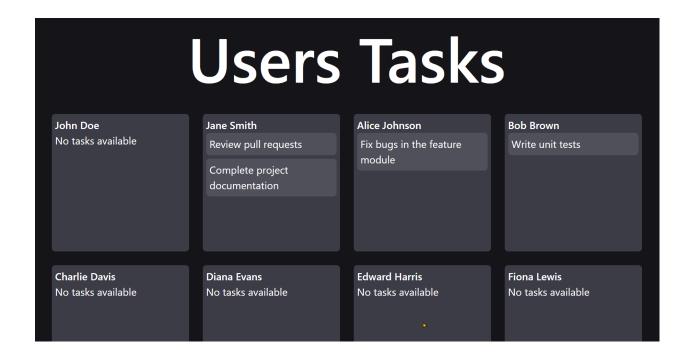
```
exports.fetchTasksWithUserNames = async (req, res) => {
       const usersWithTaskTexts = await Prisma.user.findMany({
            include: {
               tasks: {
                    select: {
for each task
            orderBy: {
               user id: 'asc', // Order users by their 'id' in
       res.status(200).json({
          message: 'success',
           usersWithTaskTexts
       console.log("users with task", error.message);
       res.status(500).json({
         message: "fail",
           error: error.message
exports.updateData = async (req, res) => {
   const { taskText, sourceUserId, targetUserId } = req.body;
   console.log(req.body);
```

```
return res.status(400).json({ message: 'Missing required
fields' });
       const task = await Prisma.task.findFirst({
           where: {
               user id: parseInt(sourceUserId, 10),
       });
           console.log('Task not found');
           return res.status(404).json({ message: 'Task not found' });
       if (parseInt(sourceUserId, 10) !== parseInt(targetUserId, 10)) {
           const newTask = await Prisma.task.create({
               data: {
                   user id: parseInt(targetUserId, 10),
                   text: taskText,
            });
            await Prisma.task.delete({
            console.log('New task created:', newTask);
            res.status(200).json({
```

OUTPUT-

BEFORE





AFTER-

Moving task from user 2 to user 1

← T→		\triangledown	user_id	name
☐ 🖉 Edit	≩ Copy	Delete	3	Alice Johnson
□ <i>⊘</i> Edit	≩ Copy	Delete	4	Bob Brown
☐ 🥜 Edit	≩ Copy	Delete	5	Charlie Davis
□ Ø Edit	≩ Copy	Delete	6	Diana Evans
□ 🖉 Edit	≩ Copy	Delete	7	Edward Harris
□ Ø Edit	≩ Copy	Delete	8	Fiona Lewis
□ 🖉 Edit	≩ Copy	Delete	9	George Martin
□ Ø Edit	≩ • Сору	Delete	10	Hannah Wilson
□ 🖉 Edit	≩ Copy	Delete	2	Jane Smith
□ <i>⊘</i> Edit	Copy	Delete	1	John Doe

