# INTERNZVALLEY

## MAJOR PROJECT (Web Development June Batch)

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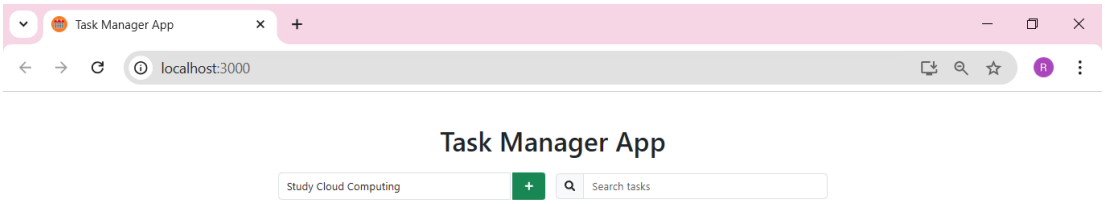
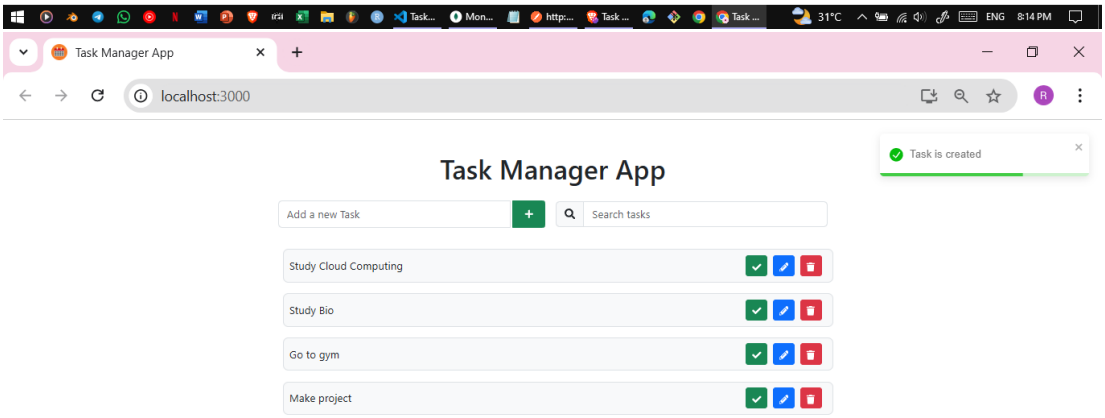
**TASK MANAGER APP**

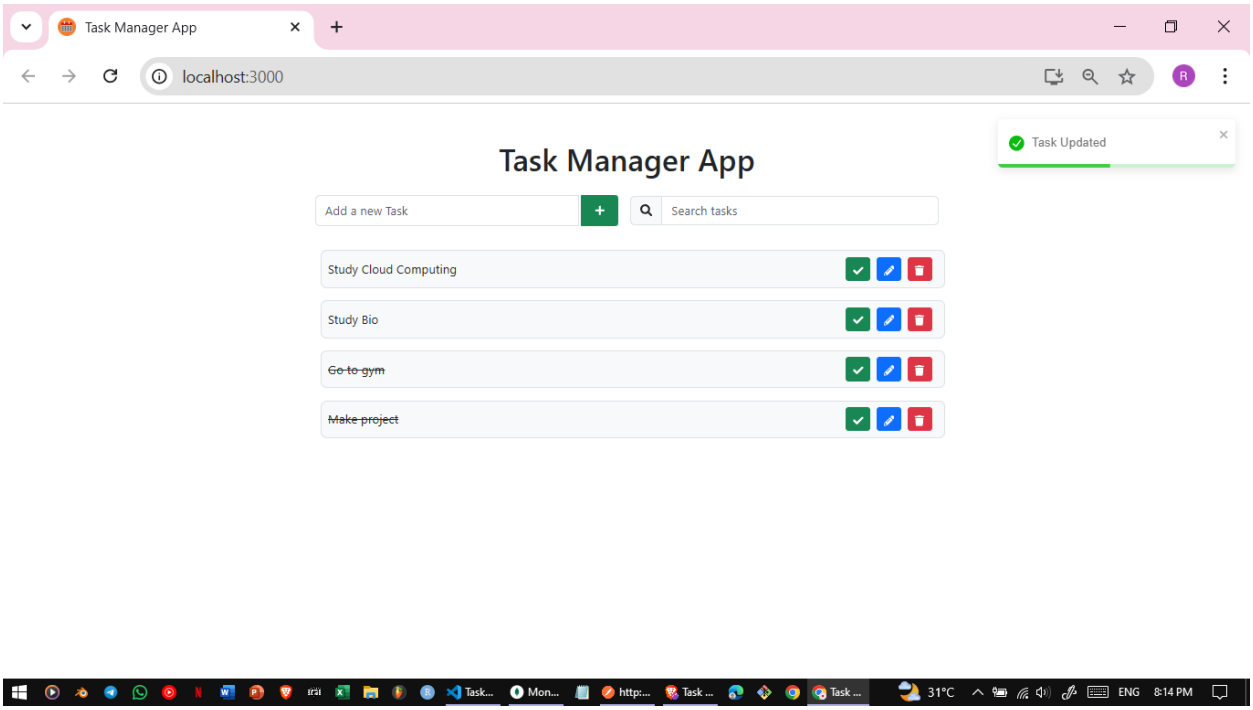
## 1. IMAGES

*ADD A NEW TASK*

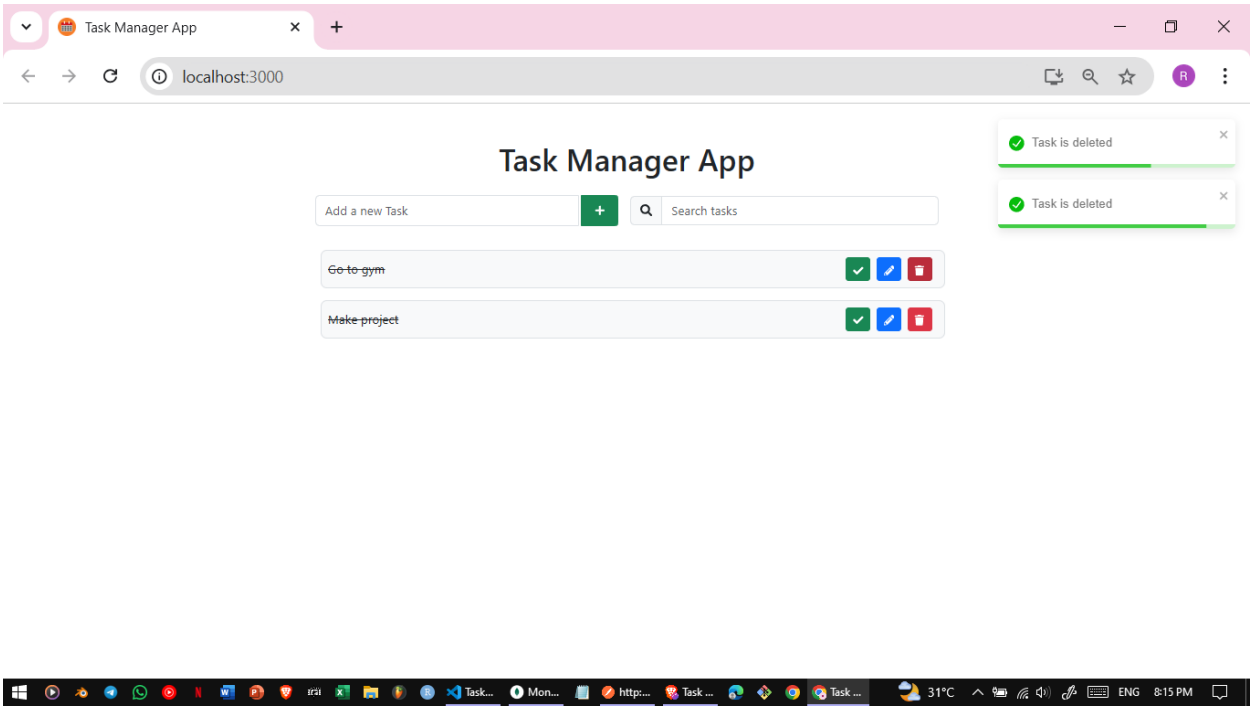


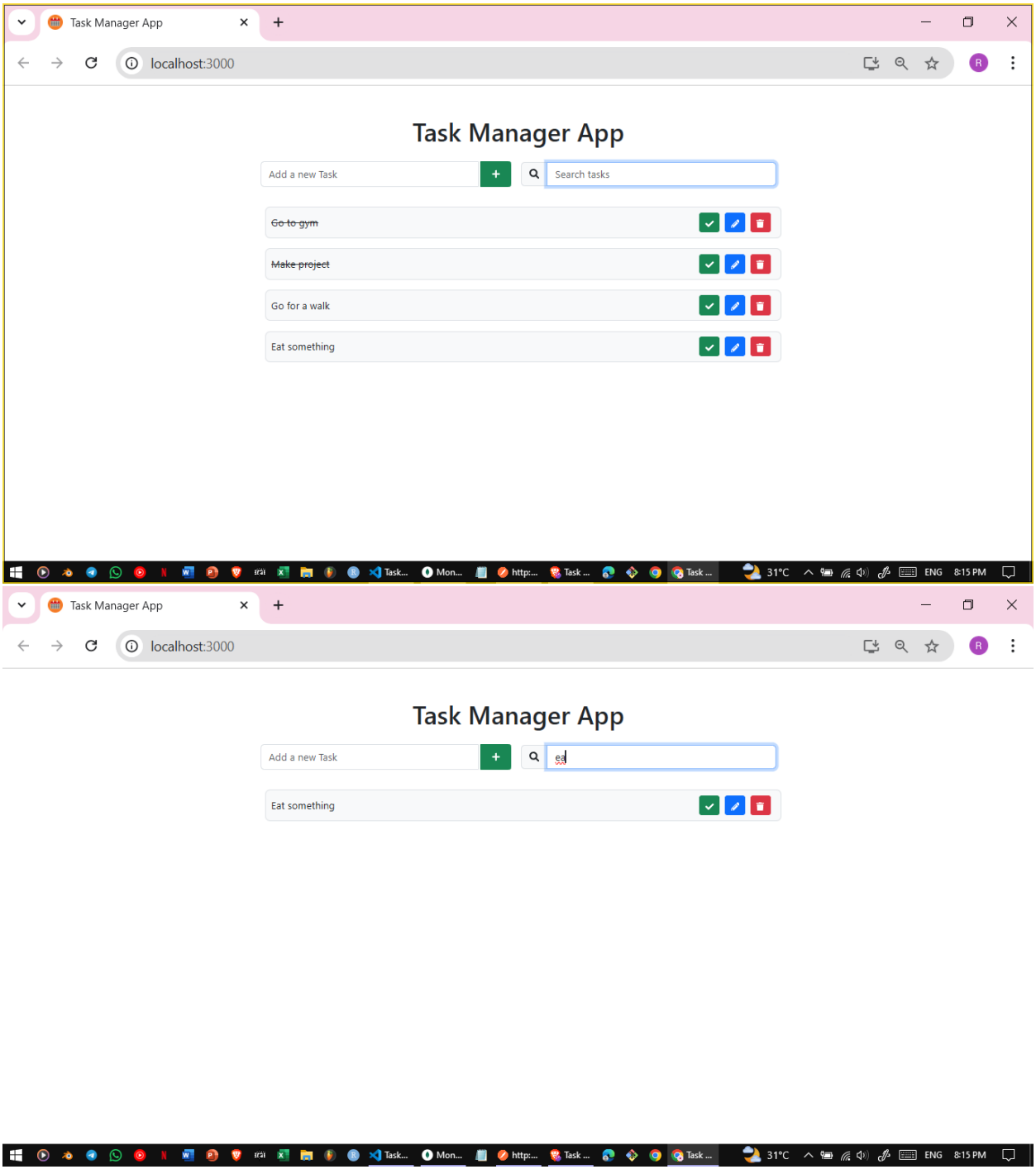
*CHECK ON THE COMPLETED TASKS*




*DELETE A TASK*

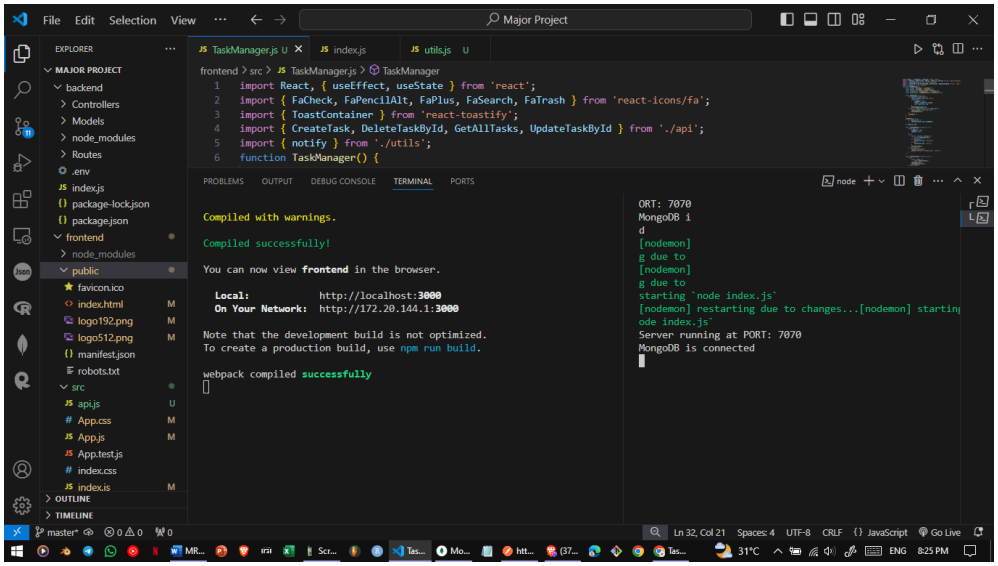


*SEARCH FOR A TASK*

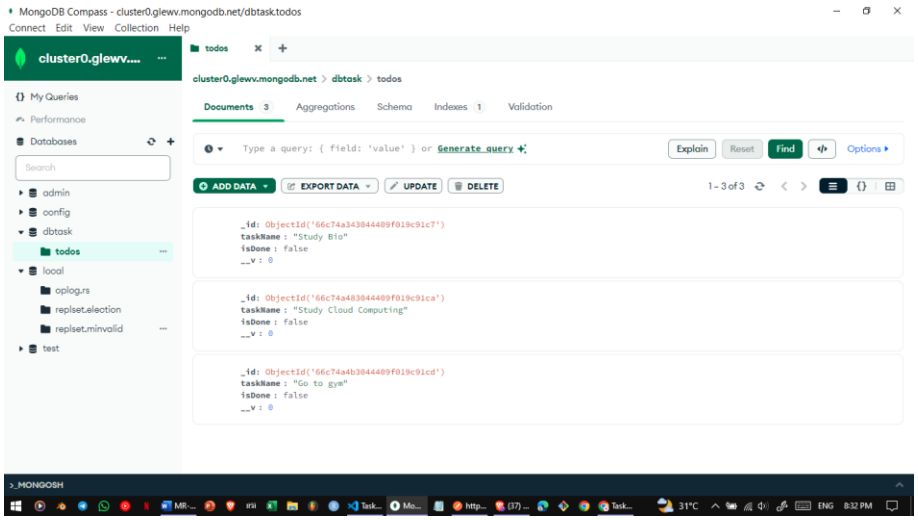


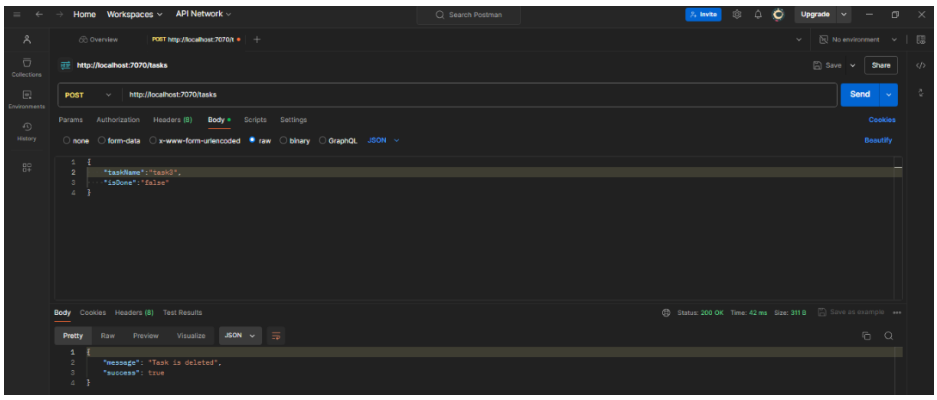
## 2. Source Code:

*Frontend and Backend integration:*




*MongoDB and Postman*



**Backend**

Index.js

```
const express = require('express');
const app = express();
require('dotenv').config();
require('./Models/db');
const cors = require('cors');
app.use(cors());

const TaskRouter = require('./Routes/TaskRouter');
const bodyParser = require('body-parser');
const PORT = process.env.PORT || 7070;

app.get('/', (req,res)=>{
    res.send("Hello from rishi's server");
})
app.use(bodyParser.json());
app.use('/tasks',TaskRouter);

app.listen(PORT,()=>{
    console.log(`Server running at PORT: ${PORT}`);
})
```

TaskController.js

```
const express = require('express');
const app = express();
require('dotenv').config();
require('./Models/db');
const cors = require('cors');
app.use(cors());

const TaskRouter = require('./Routes/TaskRouter');
const bodyParser = require('body-parser');
const PORT = process.env.PORT || 7070;

app.get('/', (req,res)=>{
    res.send("Hello from rishi's server");
})
app.use(bodyParser.json());
app.use('/tasks',TaskRouter);

app.listen(PORT,()=>{
```

```
    console.log(`Server running at PORT: ${PORT}`);
})
```

Db.js

```
const mongoose = require('mongoose');

const DB_URL = process.env.DB_URL;

mongoose.connect(DB_URL)
.then(()=>{
    console.log("MongoDB is connected");
})
.catch((err)=>{
    console.log("MongoDB is not connected", err);
})
```

TaskModel.js

```
const mongoose = require('mongoose');
const Schema = mongoose.Schema;

const TaskSchema = new Schema({
    taskName: {
        type: String,
        required: true
    },
    isDone: {
        type: Boolean,
        required: true
    }
});

const TaskModel = mongoose.model('todos', TaskSchema);
module.exports = TaskModel;
```

TaskRouter.js

```
const { createTask, fetchAllTasks, updateTaskById, deleteTaskById } =
require('../Controllers/TaskController');

const router = require('express').Router();

router.get('/', fetchAllTasks);

router.post('/', createTask);
```

```
router.put('/:id', updateTaskById);

router.delete('/:id', deleteTaskById);

module.exports = router;
```

**FRONTEND**

Api,js

```
import { API_URL } from "./utils"



export const CreateTask = async (taskObj) => {
    const url = `${API_URL}/tasks`;
    console.log('url ', url)
    const options = {
        method: 'POST',
        headers: {
            'Content-Type': 'application/json'
        },
        body: JSON.stringify(taskObj)
    };
    try {
        const result = await fetch(url, options);
        const data = await result.json();
        return data;
    } catch (err) {
        return err;
    }
}
export const GetAllTasks = async () => {
    const url = `${API_URL}/tasks`;
    console.log('url ', url)
    const options = {
        method: 'GET',
        headers: {
            'Content-Type': 'application/json'
        }
    };
    try {
        const result = await fetch(url, options);
        const data = await result.json();
        return data;
    } catch (err) {
        return err;
    }
```

```
}

export const DeleteTaskById = async (id) => {
    const url = `${API_URL}/tasks/${id}`;
    console.log('url ', url)
    const options = {
        method: 'DELETE',
        headers: {
            'Content-Type': 'application/json'
        }
    };
    try {
        const result = await fetch(url, options);
        const data = await result.json();
        return data;
    } catch (err) {
        return err;
    }
}


export const UpdateTaskById = async (id, reqBody) => {
    const url = `${API_URL}/tasks/${id}`;
    console.log('url ', url)
    const options = {
        method: 'PUT',
        headers: {
            'Content-Type': 'application/json'
        },
        body: JSON.stringify(reqBody)
    };
    try {
        const result = await fetch(url, options);
        const data = await result.json();
        return data;
    } catch (err) {
        return err;
    }
}
```

App.js

```
import './App.css';
import TaskManager from './TaskManager';
```

```
function App() {
  return (
    <div className="App">
      <TaskManager/>
    </div>
  );
}

export default App;
```

utills.js

```
import { toast } from 'react-toastify';

export const notify = (message, type) => {
    toast[type](message);
}

export const API_URL = 'http://localhost:7070';
```

TaskManager.js

```
import React, { useEffect, useState } from 'react';
import { FaCheck, FaPencilAlt, FaPlus, FaSearch, FaTrash } from 'react-icons/fa';
import { ToastContainer } from 'react-toastify';
import { CreateTask, DeleteTaskById, GetAllTasks, UpdateTaskById } from './api';
import { notify } from './utils';
function TaskManager() {
    const [input, setInput] = useState('');
    const [tasks, setTasks] = useState([]);
    const [copyTasks, setCopyTasks] = useState([]);
    const [updateTask, setUpdateTask] = useState(null);

    const handleTask = () => {
        if (updateTask && input) {
            console.log('update api call');
            const obj = {
                taskName: input,
                isDone: updateTask.isDone,
                _id: updateTask._id
            }
            handleUpdateItem(obj);
        } else if (updateTask === null && input) {
            console.log('create api call')
```

```
            handleAddTask();
        }
        setInput('')
    }

    useEffect(() => {
        if (updateTask) {
            setInput(updateTask.taskName);
        }
    }, [updateTask])

    const handleAddTask = async () => {
        const obj = {
            taskName: input,
            isDone: false
        }
        try {
            const { success, message } =
                await CreateTask(obj);
            if (success) {
                notify(message, 'success')
            } else {
                notify(message, 'error')
            }
            fetchAllTasks()
        } catch (err) {
            console.error(err);
            notify('Failed to create task', 'error')
        }
    }

    const fetchAllTasks = async () => {
        try {
            const { data } =
                await GetAllTasks();
            setTasks(data);
            setCopyTasks(data);
        } catch (err) {
            console.error(err);
            notify('Failed to create task', 'error')
        }
    }
    useEffect(() => {
        fetchAllTasks()
    }, [])
```

```
const handleDeleteTask = async (id) => {
    try {
        const { success, message } = await DeleteTaskById(id);
        if (success) {
            notify(message, 'success')
        } else {
            notify(message, 'error')
        }
        fetchAllTasks()
    } catch (err) {
        console.error(err);
        notify('Failed to create task', 'error')
    }
}

const handleCheckAndUncheck = async (item) => {
    const { _id, isDone, taskName } = item;
    const obj = {
        taskName,
        isDone: !isDone
    }
    try {
        const { success, message } = await UpdateTaskById(_id, obj);
        if (success) {
            notify(message, 'success')
        } else {
            notify(message, 'error')
        }
        fetchAllTasks()
    } catch (err) {
        console.error(err);
        notify('Failed to create task', 'error')
    }
}

const handleUpdateItem = async (item) => {
    const { _id, isDone, taskName } = item;
    const obj = {
        taskName,
        isDone: isDone
    }
    try {
        const { success, message } = await UpdateTaskById(_id, obj);
```

```
            if (success) {
                notify(message, 'success')
            } else {
                notify(message, 'error')
            }
            fetchAllTasks()
        } catch (err) {
            console.error(err);
            notify('Failed to create task', 'error')
        }
    }

    const handleSearch = (e) => {
        const term = e.target.value.toLowerCase();
        const oldTasks = [...copyTasks];
        const results = oldTasks.filter((item) => item.taskName.toLowerCase().includes(term));
        setTasks(results);
    }
    return (
        <div className='d-flex flex-column align-items-center
        w-50 m-auto mt-5'>
            <h1 className='mb-4'>Task Manager App</h1>
            <div className='d-flex justify-content-between
            align-items-center mb-4 w-100'>
                <div className='input-group flex-grow-1 me-2'>
                    <input type='text'
                        value={input}
                        onChange={
                            (e) => setInput(e.target.value)}
                        className='form-control me-1'
                        placeholder='Add a new Task'
                    />
                    <button
                        onClick={handleTask}
                        className='btn btn-success btn-sm me-2'
                    >
                        <FaPlus className='m-2' />
                    </button>
                </div>

                <div className='input-group flex-grow-1'>
                    <span
                        className='input-group-text'
                    >
                        <FaSearch />
```

```
            </span>
            <input
                onChange={handleSearch}
                className='form-control'
                type='text'
                placeholder='Search tasks'
            />
        </div>
    </div>

    <div className='d-flex flex-column w-100'>
        {
            tasks.map((item) => (
                <div key={item._id} className='m-2 p-2 border bg-light
        w-100 rounded-3 d-flex justify-content-between
        align-items-center'>
                    <span
                        className={item.isDone ? 'text-decoration-line-through' : ''}
                    >{item.taskName}
                    </span>

                    <div className=''>
                        <button
                            onClick={() => handleCheckAndUncheck(item)}
                            className='btn btn-success
                    btn-sm me-2'
                            type='button'>
                            <FaCheck />
                        </button>
                        <button
                            onClick={() => setUpdateTask(item)}
                            className='btn btn-primary
                    btn-sm me-2'
                            type='button'>
                            <FaPencilAlt />
                        </button>
                        <button
                            onClick={() => handleDeleteTask(item._id)}
                            className='btn btn-danger
                    btn-sm me-2'
                            type='button'>
                            <FaTrash />
                        </button>
                    </div>
                </div>
```

```
                    ))
                }
            </div>

            <ToastContainer
                position='top-right'
                autoClose={3000}
                hideProgressBar={false}
            />
        </div>
    )
}

export default TaskManager
```