## Task Manager - Next.js Frontend Code Explained

'use client';

This marks the file as a Client Component in Next.js App Router. It allows the use of React hooks like useState and useEffect.

```
import { useEffect, useMemo, useState } from 'react';
```

Imports React hooks: useState for state variables, useEffect for lifecycle effects, and useMemo for memoized values.

```
type Status = 'pending' | 'in-progress' | 'completed';
```

Defines a TypeScript type for allowed task statuses.

type Task = { \_id: string; title: string; description?: string; status: Status; createdAt: string; updatedAt: s
Defines the Task object structure with optional description and required fields.

```
const API = process.env.NEXT_PUBLIC_API_BASE || 'http://localhost:4000';
```

Defines the backend API base URL. It first checks environment variables, otherwise defaults to localhost:4000.