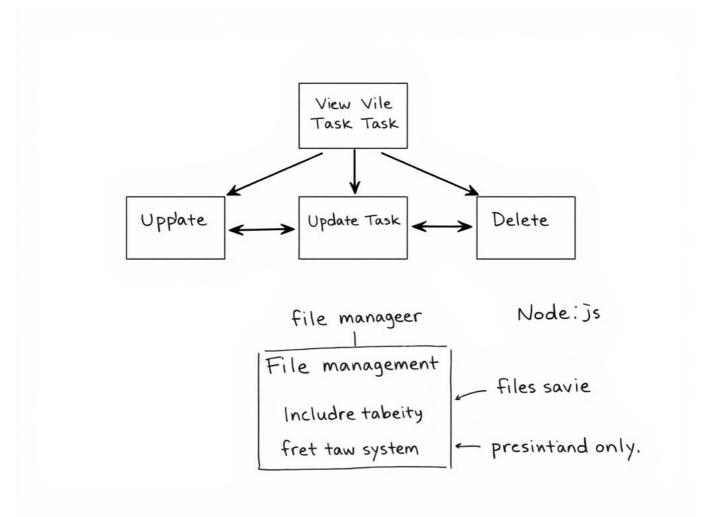
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Task Manager using OOP and File Management

Crud Operation

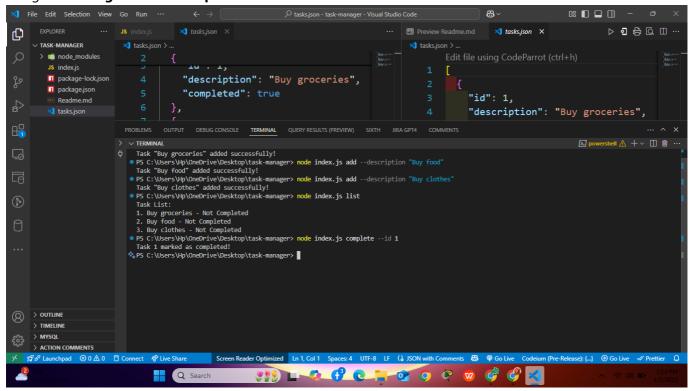


Description

This is a command-line Task Manager application built using **Node.js** and **Object-Oriented Programming** (**OOP**) principles in **JavaScript**. The application allows users to efficiently manage tasks by providing functionalities to **add, view, update, and delete tasks**. To ensure data persistence, tasks are stored in a file

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using file management techniques.



Features

- Add a Task: Users can create a new task with a title, description, and status.
- View Tasks: Display all tasks stored in the system.
- Update a Task: Modify an existing task's details.
- **Delete a Task**: Remove a task from the system.
- Persistent Storage: All tasks are saved in a file, ensuring data retention across sessions.

Technologies Used

- **Node.js**: JavaScript runtime for executing code.
- File System (fs) Module: Handles reading and writing of task data.
- OOP Principles: Encapsulation, inheritance, and abstraction for structured code.

Installation

- 1. Ensure you have **Node.js** installed on your system.
- 2. Clone the repository:

```
git clone https://github.com/your-username/task-manager.git
```

3. Navigate to the project directory:

```
cd task-manager
```

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4. Install dependencies (if any):

```
npm install
```

Usage

1. Run the application:

```
node index.js
```

2. Follow the command prompts to manage tasks.

File Structure

```
/task-manager
— index.js
                     # Entry point of the application
— taskManager.js # Main class handling task operations
— tasks.json
                      # JSON file for storing tasks persistently
                     # Project metadata and dependencies
— package.json
- Readme.md
                      # Project documentation
## Future Enhancements
- Implement a **database storage** option (e.g., MongoDB, SQLite).
- Add **task priority levels**.
- Introduce a **task due date feature**.
- Build a **CLI interface using Inquirer.js** for better user interaction.
## Contributing
Feel free to contribute by submitting issues or pull requests.
## License
This project is licensed under the **MIT License**.
```