

Task Manager (Full-Stack)

A simple **Task Management** application built with **React (Frontend)**, **Node.js (Backend)**, and **MySQL (Database)**. This project allows users to add, view, and delete tasks efficiently.

Features

- ✓ Add new tasks
 - ✓ View a list of tasks
 - ✓ Delete tasks
 - ✓ Responsive and modern UI
 - ✓ Backend API with Express.js
 - ✓ MySQL database integration
 - ✓ Uses Axios for API communication
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Tech Stack

Frontend:

- React.js (Hooks, Axios)
- HTML5, CSS3 (Styled with modern UI)
- React Icons (Optional for UI enhancements)

Backend:

- Node.js with Express.js
- MySQL (Without Sequelize)
- CORS, Body-Parser for request handling

Other Dependencies:

- Axios for making API requests
 - dotenv for environment variable management
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Project Structure

```
task-manager/  
├── backend/           # Express.js Server
```

```
├── server.js      # Main entry point
├── routes/        # API Routes
├── config/        # MySQL Connection Config
├── frontend/     # React.js Frontend
│   └── src/
│       ├── components/
│       │   ├── TaskList.js
│       │   └── AddTaskForm.js
│       ├── App.js
│       ├── index.js
│       └── App.css
├── README.md     # Project Documentation
├── package.json  # Dependencies
└── .gitignore
```

🔧 Installation & Setup

1 Clone the Repository

```
git clone https://github.com/Naveenrohit264/task-management.git
cd task-manager
```

2 Backend Setup (Node.js + MySQL)

```
cd backend
npm install
```

⚙️ Configure MySQL Connection:

- Create a `.env` file in the backend folder and add:
 - `DB_HOST=localhost`
 - `DB_USER=root`
 - `DB_PASSWORD=yourpassword`
 - `DB_NAME=task_db`
- Create the **task_db** database manually or run:

```
CREATE DATABASE task_db;
```

- Create the **tasks** table:
 - `CREATE TABLE tasks (`
 - `id INT AUTO_INCREMENT PRIMARY KEY,`
 - `title VARCHAR(255) NOT NULL`
 - `);`

⚙️ Start Backend Server

```
node server.js
```

3 Frontend Setup (React.js)

```
cd frontend
npm install
npm start
```

🔗 API Endpoints

Method	Endpoint	Description
GET	/tasks	Get all tasks
POST	/tasks	Add a new task
DELETE	/tasks/:id	Delete a task

Example API Calls:

- **Get All Tasks**

```
curl -X GET http://localhost:5000/tasks
```

- **Add a Task**

```
curl -X POST http://localhost:5000/tasks -H "Content-Type: application/json" -d '{"title": "New Task"}'
```

- **Delete a Task**

```
curl -X DELETE http://localhost:5000/tasks/1
```

🔗 Deployment Notes

Note: This project is currently **not deployed**. It can be run locally following the setup instructions above.

AWS Integration: AWS services were not used; instead, **MySQL** was used as the database.

🎉 Conclusion

This **Task Manager** app demonstrates a **full-stack CRUD** setup using **React**, **Node.js**, and **MySQL**. 🚀