INTERNSHIP REPORT

On

Development of a Full-Stack Todo web application Using MERN Stack

Submitted by

Gowri G

B.Tech CSE

College of Engineering Aranmula

June 2025

Abstract

This project is a full-stack Todo web application developed using Node.js, MongoDB, HTML/CSS, and React (with Vite). It helps users manage daily tasks by allowing them to add, view, and delete tasks through a simple and responsive interface. The backend handles API requests and stores data securely in MongoDB, either locally or via MongoDB Atlas. Real-time communication between the frontend and backend ensures smooth task updates. The project provides a practical example of how modern technologies can work together to build efficient and user-friendly web applications.

Introduction

In today's busy world, managing daily tasks with the help of technology has become very important. This project is a web-based Todo application built using the MERN stack. The frontend is developed using React, which provides a smooth and interactive user interface. The backend is powered by Node.js and Express, which handle all the server operations. Task data is safely stored in MongoDB Atlas, a cloud-based database. Together, these technologies create a complete and user-friendly system to organize and track tasks efficiently.

Features

- Adding new tasks
- Viewing all saved tasks
- Deleting existing tasks

Implementation overview

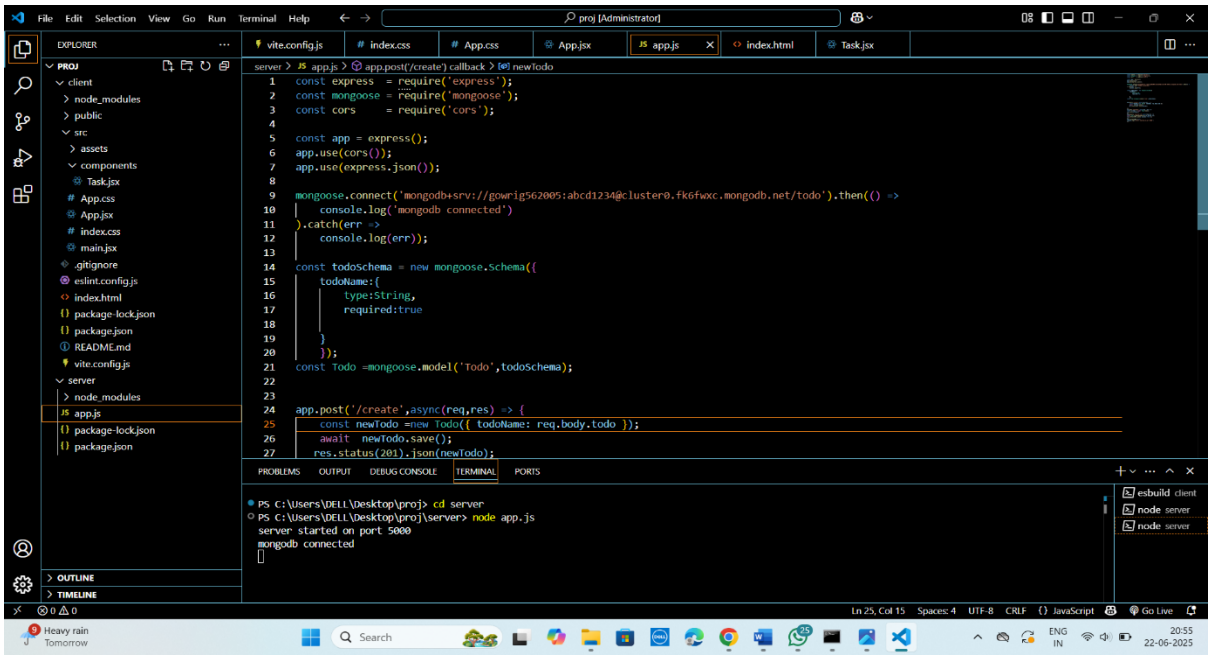
Project structure includes two main folders: **client** (React app) and **server** (Express backend).

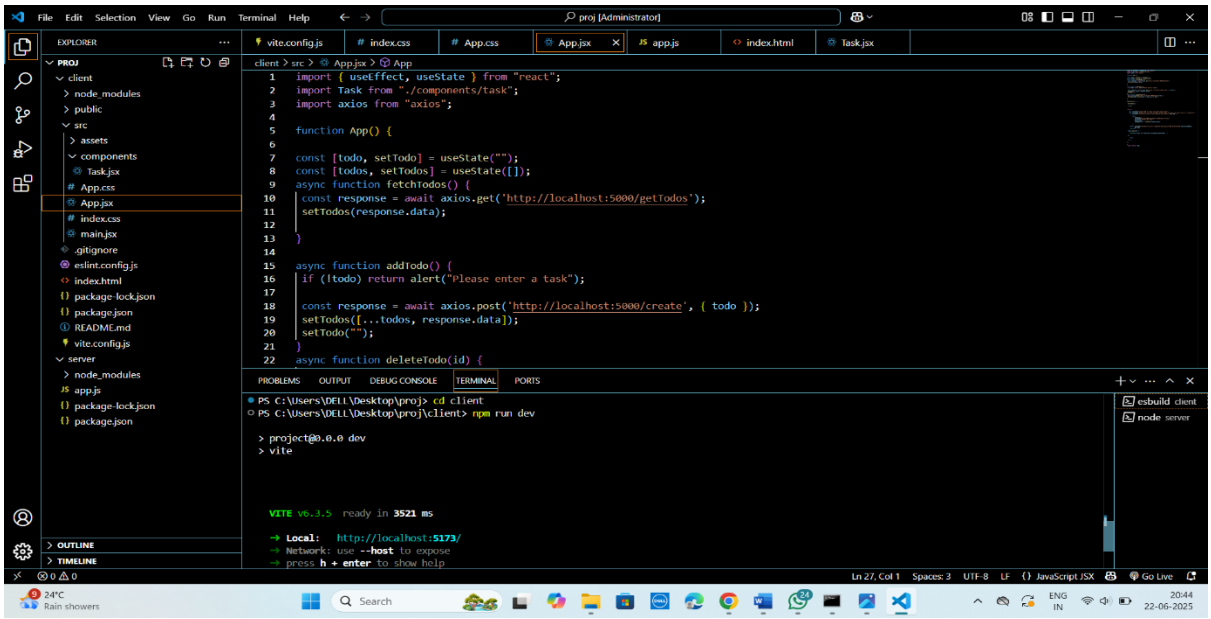
Tasks are created via POST requests and stored in MongoDB.

GET requests fetch tasks from the backend to display.

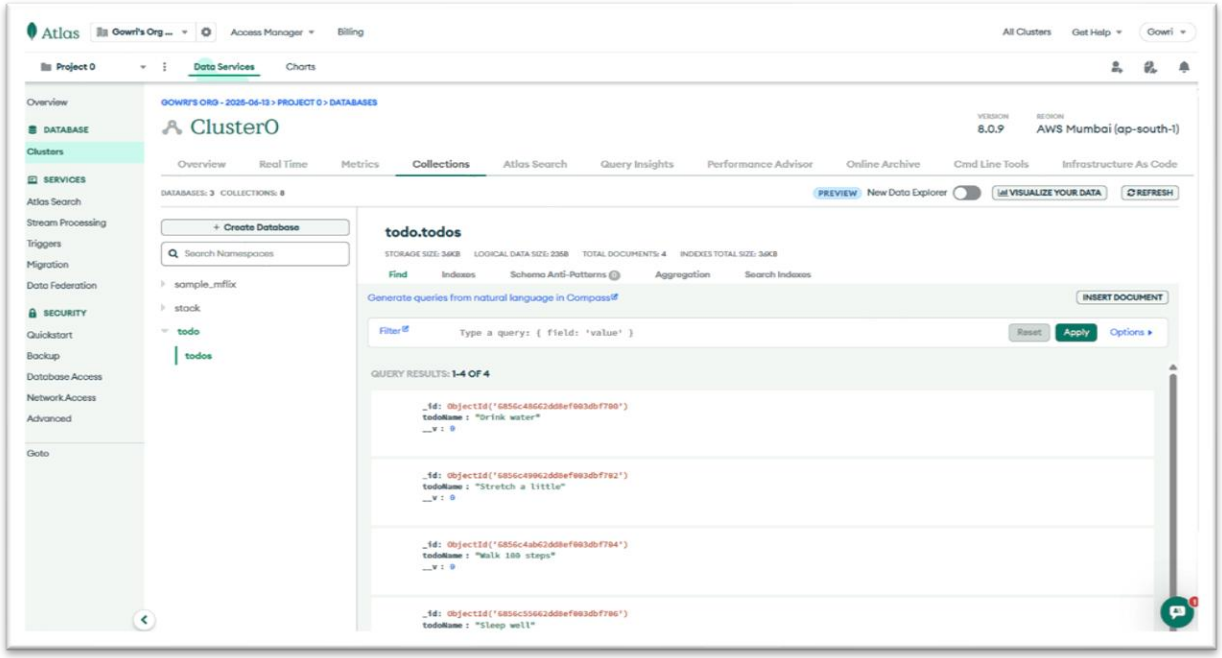
DELETE requests remove tasks from the database.

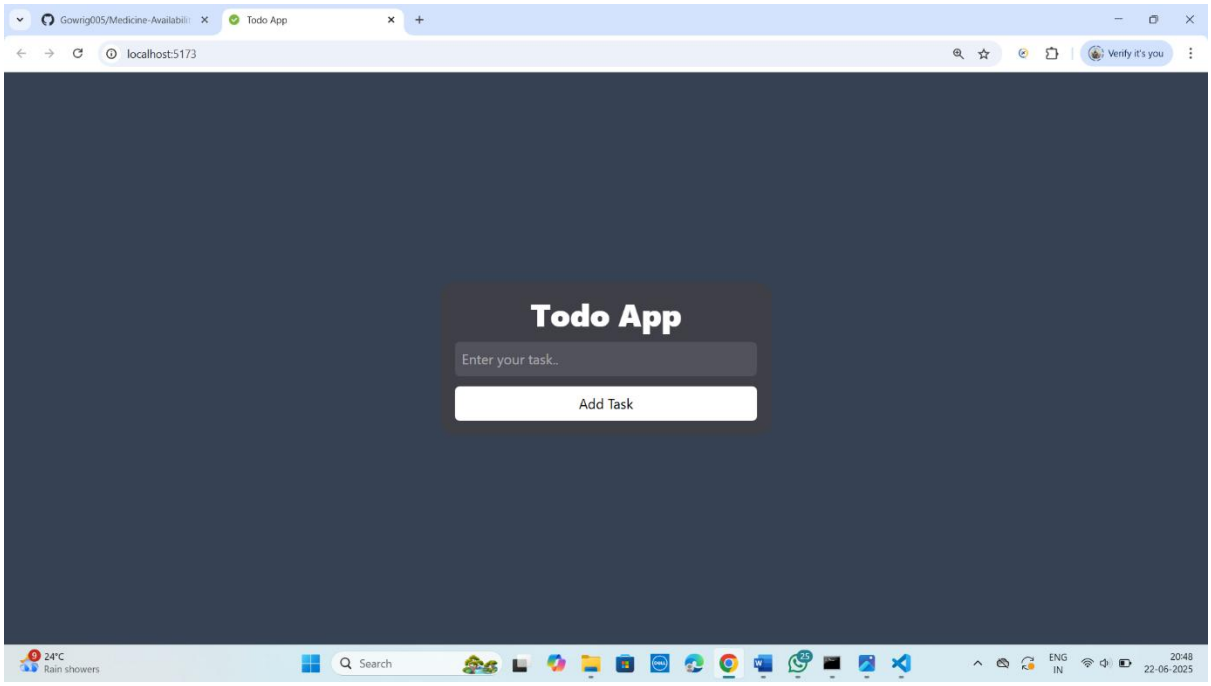
Vite is used for faster React development and live reload.

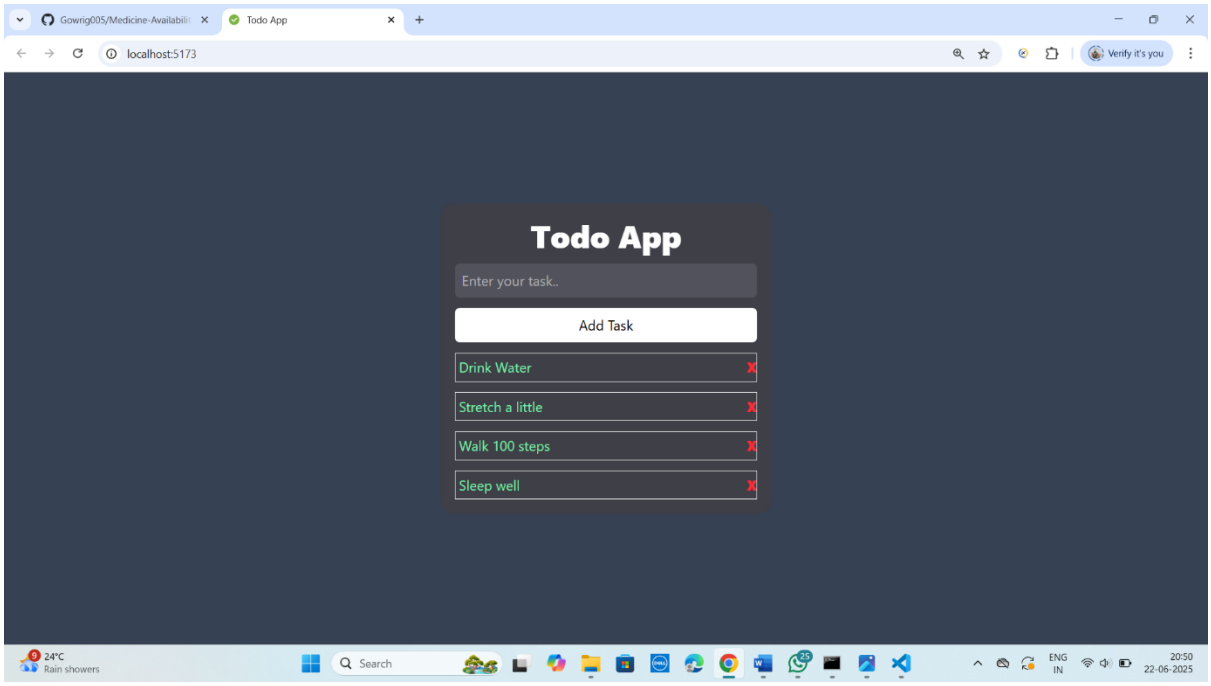


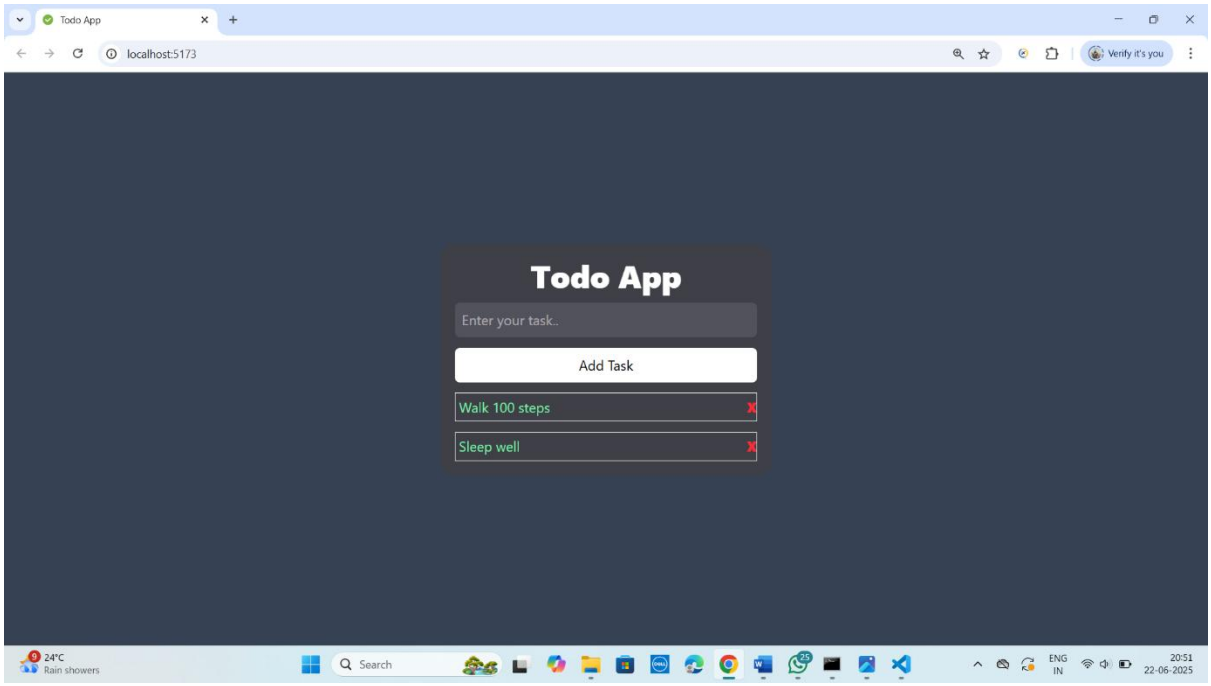


Result


Atlas
Project 0
Data Services
Charts
Overview
DATABASE
Clusters
SERVICES
Atlas Search
Stream Processing
Triggers
Migration
Data Federation
SECURITY
Quickstart
Backup
Database Access
Network Access
Advanced
Goto
Cluster0
AWS Mumbai (ap-south-1)
Overview
Real Time
Metrics
Collections
Atlas Search
Query Insights
Performance Advisor
Online Archive
Cmd Line Tools
Infrastructure As Code
+ Create Database
Search Namespaces
sample_mflix
stack
todo
todos
todo.todos
Find
Indexes
Schema Anti-Patterns
Aggregation
Search Indexes
INSERT DOCUMENT
Type a query: { field: 'value' }
Reset
Apply
Options
QUERY RESULTS: 1-4 OF 4
todoName : "Drink water"
todoName : "Stretch a little"
todoName : "Walk 100 steps"
todoName : "Sleep well"


Todo App
localhost:5173
Todo App
Enter your task..
Add Task
24°C
Rain showers
Search
ENG
IN
20:48
22-06-2025


Gowrig005/Medicine-Availabili
Todo App
localhost:5173
Verify it's you
Todo App
Enter your task..
Add Task
Drink Water
Stretch a little
Walk 100 steps
Sleep well
24°C
Rain showers
Search
ENG
IN
20:50
22-06-2025


Todo App
localhost:5173
Verify it's you
Todo App
Enter your task..
Add Task
Walk 100 steps
Sleep well
24°C
Rain showers
Search
ENG
IN
20:51
22-06-2025