

Training Day 12 Report

Date: 9 July 2025

Project: MERN Notes App

Topic Covered: Deleting a Note by ID (DELETE Route)

On the twelfth day, we completed the CRUD cycle by adding functionality to delete notes. This allows users to permanently remove notes from the database.

Understanding the DELETE Request

- The client sends a **DELETE** request to `/api/notes/:id`.
- The backend searches for the note by its unique ID.
- If found, the note is removed from MongoDB and a success message is returned.

Implementing the Delete Route

In `backend/routes/noteRoutes.js`, we add:

Listing 1: DELETE `/api/notes/:id` – Remove a note

```
1 router.delete('/:id', async (req, res) => {  
2   try {  
3     const note = await Note.findById(req.params.id);  
4  
5     if (!note) {  
6       return res.status(404).json({ message: 'Note not found' });  
7     }  
8  
9     await note.deleteOne();  
10    res.json({ message: 'Note deleted successfully' });  
11  } catch (error) {  
12    res.status(500).json({ error: error.message });  
13  }  
14  });
```

Key points:

- Extracted the note ID from `req.params.id`.
- Checked existence before deletion to prevent errors.
- Responded with a confirmation message upon successful deletion.

Testing the Endpoint

- Used Postman to send DELETE `http://localhost:5000/api/notes/<noteID>`.
- Verified that the note was removed from the database.
- Confirmed the response message: "Note deleted successfully".

Outcome of the Day

- Learned how to implement the **DELETE** method in Express routes.
- Completed the full CRUD (Create, Read, Update, Delete) cycle for notes.
- Backend is now capable of handling all essential note management operations.