

Training Day 9 Report

Date: 5 July 2025

Topic Covered: Creating the GET Route to Fetch All Notes

On the ninth day of MERN stack training, we implemented the API endpoint for retrieving all notes from the database. This allows the frontend to display a complete list of notes.

Understanding the GET Method

The **GET** HTTP method is used to request data from the server without making any changes to it. In our case:

- The client requests a list of all notes.
- The backend queries MongoDB and returns the results.

Implementing the Route

Inside `backend/routes/noteRoutes.js`:

```
router.get('/', async (req, res) => {
  try {
    const notes = await Note.find().sort({ createdAt: -1 });
    res.json(notes);
  } catch (error) {
    res.status(500).json({ error: error.message });
  }
});
```

Key points:

- Used `Note.find()` to fetch all notes from the database.
- Applied sorting by `createdAt` in descending order (latest notes first).

Testing the Endpoint

- Used Postman to send a GET request to `http://localhost:5000/api/notes`.

- Verified that the response contained all notes in JSON format.
- Confirmed that the notes were sorted correctly.

Outcome of the Day

- Learned how to handle GET requests in Express.
- Successfully created and tested the API endpoint to fetch all notes.
- Prepared the backend to serve data to the React frontend.