# Training Day 25 Report

Date: 24 July 2025

Project: MERN Notes App

## Topic Covered: Error Handling and Notifications

On the twenty-fifth day, we added user-friendly error handling and notifications across the app. This included showing success messages for actions and error alerts for failures.

## Concepts Learned

- Handling API errors in React with try/catch.
- Displaying alerts and notifications (using libraries like react-toastify or custom alerts).
- Differentiating between success, warning, and error messages.

### React Toastify Setup

Installed with:

```
npm install react-toastify
```

Configured in App. js:

## **Showing Notifications**

Example in Signup.js:

Listing 1: Displaying success and error toasts

```
import { toast } from 'react-toastify';

const handleSubmit = async (e) => {
    e.preventDefault();
    try {
        const res = await axios.post('/api/users/signup', formData);
        localStorage.setItem('userInfo', JSON.stringify(res.data));
        toast.success('Signup successful!');
} catch (err) {
```

```
toast.error(err.response?.data?.message || 'Signup failed');
}
};
```

#### Notifications for Notes Actions

Listing 2: Create, update, delete feedback

```
const createNote = async (note) => {
     try {
2
       const res = await api.post('/notes', note);
       setNotes([...notes, res.data]);
       toast.success('Note created!');
6
     } catch {
       toast.error('Error creating note');
    }
9
  };
10
  const deleteNote = async (id) => {
11
     try {
12
       await api.delete('/notes/${id}');
13
       setNotes(notes.filter(n => n._id !== id));
14
       toast.info('Note deleted');
15
     } catch {
16
       toast.error('Error deleting note');
17
18
  };
```

## Testing Notifications

- $\bullet$  Successfully signed up  $\to$  "Signup successful!" to ast appeared.
- Tried duplicate signup  $\rightarrow$  "User already exists" error displayed.
- Created and deleted notes  $\rightarrow$  correct success/info toasts appeared.
- Tested network failure  $\rightarrow$  error toast displayed properly.

## Outcome of the Day

- Implemented global notification system using React Toastify.
- Added success, info, and error toasts for authentication and notes actions.
- Improved user experience with clear, immediate feedback.