

Training Day 21 Report

Date: 19 July 2025

Project: MERN Notes App

Topic Covered: Sorting Notes by Date and Title

On the twenty-first day, we added sorting options to the Notes list. Users can now view notes sorted by creation date, last updated, or alphabetically by title.

Concepts Learned

- Adding dropdown menus for selecting sort options.
- Sorting arrays in JavaScript using `sort()`.
- Combining search, filter, and sort for better note management.

Sort Dropdown

Listing 1: Sort selector component

```
1 function SortMenu({ sortBy, setSortBy }) {  
2   return (  
3     <select value={sortBy} onChange={(e) => setSortBy(e.target.value)}>  
4       <option value="newest">Newest First</option>  
5       <option value="oldest">Oldest First</option>  
6       <option value="titleAsc">Title A-Z</option>  
7       <option value="titleDesc">Title Z-A</option>  
8     </select>  
9   );  
10 }
```

Sorting Logic

In `src/screens/Notes.js`:

Listing 2: Applying sort to notes

```
1 const [sortBy, setSortBy] = useState('newest');  
2  
3 const sortedNotes = [...filteredNotes].sort((a, b) => {  
4   if (sortBy === 'newest') {  
5     return new Date(b.createdAt) - new Date(a.createdAt);  
6   }  
7   if (sortBy === 'oldest') {  
8     return new Date(a.createdAt) - new Date(b.createdAt);  
9   }  
10  if (sortBy === 'titleAsc') {  
11    return a.title.localeCompare(b.title);  
12  }  
13  if (sortBy === 'titleDesc') {
```

```

14     return b.title.localeCompare(a.title);
15   }
16   return 0;
17 });

```

Rendering Notes with Sorting

```

1  return (
2    <div>
3      <SearchBar query={query} setQuery={setQuery} />
4      <SortMenu sortBy={sortBy} setSortBy={setSortBy} />
5      <ul>
6        {sortedNotes.map(note => (
7          <li key={note._id}>{note.title} - {note.content}</li>
8        ))}
9      </ul>
10    </div>
11  );

```

Testing the Feature

- Selected "Newest First" → most recent notes appeared on top.
- Selected "Oldest First" → earliest notes were shown first.
- Selected "Title A-Z" and "Title Z-A" → verified correct alphabetical ordering.

Outcome of the Day

- Implemented sorting options for notes.
- Combined search, filter, and sort to improve usability.
- Users now have better control over how notes are displayed.