

Description of Features:

Search Feature: The search feature allows users to search for specific files within the Multimedia Web App. It filters the files based on the entered search query, matching it against the file names. The search is case-insensitive, providing flexibility in finding files. By dynamically updating the file list based on the search query, users can quickly locate the desired files.

Sort Feature: The sort feature enables users to sort the file list based on different criteria, such as name, size, and type. Users can select the sort option and direction from the dropdown menus, and the file list will be reorganized accordingly. Sorting by name uses alphabetical order, sorting by size arranges files from smallest to largest, and sorting by type groups files based on their type (e.g., video, audio, document, image).

Reason for Choosing These Features:

Search Feature:

One of the main reasons for implementing the search feature is to make it easier for users to find specific files within a large collection. We understand how frustrating it can be to scroll through numerous files to locate a particular one. With the search functionality, users can simply type in a keyword or partial file name, and the app will instantly filter and display the relevant files. It's like having a search bar that quickly finds what you're looking for, saving you time and effort.

Sort Feature:

The sort feature adds a touch of organization to the Multimedia Web App. We all love to have our files neatly arranged, whether it's by name, size, or even type. By allowing users to sort their files, we empower them to customize their experience and easily find what they need. Sorting files alphabetically or by size helps in locating specific files faster, while sorting by type groups similar files together. It's like having

a virtual filing cabinet that you can organize according to your preferences.

The creativity of the two features lies in their ability to enhance the user experience and provide practical functionality within the Multimedia Web App. While the search and sort features themselves are not necessarily groundbreaking or revolutionary in the realm of file management applications, they are valuable additions that greatly improve the app's usability.

The search feature allows users to quickly find specific files by typing in keywords or partial file names. It streamlines the file browsing process and saves users from manually scrolling through a long list of files. This feature is widely recognized and appreciated in various applications, as it significantly improves efficiency and saves time.

The sort feature adds a layer of organization to the app, giving users the ability to sort files by different criteria such as name, size, and type. By providing sorting options, users can easily arrange their files in a way that makes sense to them and suits their preferences. While sorting features are commonly found in file management applications, they are fundamental in creating a more intuitive and user-friendly experience.

An explanation of how the code works

Search Feature:

The search feature is implemented using the `useState` hook, which creates a state variable called `searchQuery`. This variable holds the value of the search query entered by the user.

The `filteredFiles` constant is defined by applying the `filter` function on the `myFiles` array. It checks each file's name to see if it includes the search query (ignoring case sensitivity). Only the files that match the search query are stored in `filteredFiles`.

The file list is then rendered using the `map` function on the `filteredFiles` array. This displays only the files that match the search query, allowing the user to easily locate specific files by their names.

Sort Feature:

The sort feature utilizes two state variables: `sortOption` and `sortDirection`. `sortOption` represents the chosen sorting criterion (e.g., name or size), and `sortDirection` represents the desired sorting order (e.g., ascending or descending).

The `sortFiles` function takes an array of files as input and applies the appropriate sorting based on the selected `sortOption` and `sortDirection`. It uses the sort function along with comparison functions to determine the order of the files.

Within the file list, the `sortFiles` function is invoked to display the files in the desired order. This allows users to organize the file list based on their preferences by selecting the sorting criterion and direction.

By incorporating the search and sort features into the Multimedia Web App, users can easily search for files by their names and organize the file list based on different criteria. The search functionality enables efficient retrieval of specific files, while the sort of functionality enhances file organization. These features contribute to a more intuitive and user-friendly experience, making it convenient for users to manage and locate their multimedia files within the application.