# 📁 File Management System Dashboard Documentation

## Developed Using:

- React.js  
- Tailwind CSS  
- React Icons  
- React Router  
- React Auth0 (Google Authentication)  
- React Doc Viewer  
- TinyMCE Editor  
- CORS Proxy & FileReader APIs

## 🔐 Authentication

- Login with Google: Secure login powered by Auth0.  
- Google OAuth Integration: Authenticated using React Auth0 library.  
- Multi-Email Support: Same user can login with multiple emails and see their unique data.  
- Profile Viewing: Authenticated users can view their profile.

## 📁 Folder Management

- Add Folder: Users can create folders, including nested subfolders.  
- Rename & Delete Folder: Full support for renaming or deleting folders.  
- Recursive Structure: Supports deep folder trees for hierarchical organization.

## 📄 File Management

- Add File: Upload files directly from the local device (hard drive).  
- Import from API: Download and import files via external API URLs.  
- File Previews: .doc, .docx, .xlsx, .pdf, .txt, and .jpg formats are supported using React Doc Viewer.  
- Get File Size: Displays file size for each uploaded file.  
- Delete Files: Files can be deleted individually or in bulk.

## 📝 Notes Feature

- Create Notes: Users can create text-based notes from the dashboard interface.  
- Rich Text Formatting: Notes support formatting such as Bold, Italic, Underline, Text Alignment, Lists, Headings, Links, etc.  
- Edit Notes: Users can reopen and edit existing notes.  
- View Notes: Notes can be viewed in a clean, readable format.  
- Editor Used: All note editing capabilities are powered by TinyMCE Editor.

## 🧭 Viewing Options

- Grid View: Thumbnail-based display of files and folders.  
- List View: Detailed list view with metadata (name, size, date, etc.).

## 🗃️ File Organization

- Select Multiple Files: Users can multi-select files for group operations.  
- Select All: One-click selection of all items in a folder.  
- Sorting: Sort files by name.  
- Pagination: Paginated view for file listing.  
- Search Functionality: Search bar for finding files/folders quickly.

## 📦 Recycle Bin

- Soft Deletion: Deleted files/folders are first moved to a Recycle Bin.  
- Restore Option: Items in the Recycle Bin can be restored.  
- Permanent Delete: Users can permanently delete items from the Recycle Bin.

## 🚪 Sign Out

- Sign Out Functionality: Users can securely log out of their account from the dashboard.  
- Session Handling: After logout, session data is cleared ensuring user security.

## 💡 Additional Notes

- State Management: Utilizes React Context API to manage file and folder state.  
- User Feedback: Smooth UX with tooltips, hover effects, and modal prompts.  
- File Extensions Supported: .doc, .docx, .xlsx, .xls, .pdf, .txt, .jpg, .png, .js, .json, .html, .css, .gif, and more.

## 🚀 Tech Stack Summary

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| --- | --- |
| Feature | Library/Tech Used |
| UI Components | React, Tailwind CSS, React Icons |
| Routing | React Router |
| File Upload | FileReader API |
| API File Import | Fetch with CORS proxy |
| Authentication | React Auth0 with Google Login |
| File Preview | React Doc Viewer |
| Notes Editing | TinyMCE Editor |
| State Management | React Context API |
| Data Persistence | Local state (can be extended to backend) |