File Management System Documentation

Overview

This file management system is built using **ReactJS 18.3.1** for the frontend and **Laravel 10** with **PHP ^8.1** for the backend. It provides a seamless interface for managing user-uploaded files, with features like file uploading, viewing, searching, and deleting, all while ensuring robust security and usability. Additionally, it includes functionalities designed to simplify user interactions and improve overall system performance, catering to both novice and experienced experienced users.

Technical Notes

- **Frontend Framework:** ReactJS 18.3.1, ensuring dynamic and interactive user interfaces.
- **Backend Framework:** Laravel 10.
- **PHP Version:** ^8.1.
- **Authentication:** Sanctum facilitates secure and reliable session handling.
- **UI Components:** Designed with responsive layouts, modals and streamlined workflows for optimal user experience.

Modules and Features

1. Authentication System

- **Features:**
  - **Sanctum Authentication:** Ensures users can register, log in, and log out securely with protected session handling.
  - Data encryption guarantees the safe storage of user credentials and sensitive information, maintaining privacy.
  - Frontend and backend routes are configured with middleware to restrict access:
    - Public routes are accessible without login for guest users.
    - Protected routes require user login, offering an additional layer of security.
- **User Flow:**
  - New users register for an account through a simple and guided process.
  - Upon successful login, sessions are managed using Sanctum to enable persistent authentication.
  - Users can log out securely via the dashboard to terminate active sessions.
- **Snapshots:**
  - **Login Page:** https://prnt.sc/vcqraTsJGDoT
  - **Register Page:** https://prnt.sc/vKzRk2jnfL8U

---

2. File Upload

- **Features:**
  - After logging in, users are redirected to a personalized dashboard where core functionalities are accessible.
  - **The dashboard includes:**
    - Display of logged-in user information for personalization.
    - Upload File Component to upload files effortlessly.
    - View Uploaded Files List to monitor all uploads.
  - Both components are designed to load seamlessly in a popup modal, providing a non-intrusive user experience.
- Supported File Types: A wide range, including PDFs, JPGs, PNGs, and other common file formats, to cater to diverse user needs.
- **Snapshots:**
  - **Dashboard Page:** https://prnt.sc/r4E1sYpA67BR
  - **File Upload Modal Popup:**
    - https://prnt.sc/6xVvGjR-zeqo
    - https://prnt.sc/FNqxtMf5q7sy

3. In-App File Viewer

- **Features:**
  - Integrated file viewer supports a variety of formats, such as PDF and image files, allowing users to preview uploads directly within the app.
  - **When users click on the View Upload button:**
    - A modal popup to display the uploaded files in a neat and organized manner.
    - Alternatively, users can open files in a new tab for an enhanced full-screen experience.
- **Snapshot:** https://prnt.sc/vYdmYFXiicUX

4. Display User-Uploaded Data

- **Features:**
  - Displays all uploaded files in a tabular format with detailed information, including:
    - File name for easy identification.
    - Upload date and time for tracking purposes.
    - Unique file ID to ensure every file is distinct and identifiable.
  - Records are sorted in descending order by upload time, ensuring the most recent files are displayed first.
- **Snapshot:** https://prnt.sc/vYdmYFXiicUX

5. Delete Files

- **Features:**
  - **Provides robust file deletion options to keep the system organized:**
    - Delete individual files quickly and securely.
    - Delete multiple selected files to save time.
    - Delete all records for a clean slate.
  - **Confirmation Prompt:** Added to prevent accidental deletions and ensure deliberate actions.
  - **Checkbox System:**
    - Each file entry includes a checkbox for selection.
    - The Delete Button activates only when files are selected, minimizing errors.
- **Snapshots:**
  - **Single Deletion:** https://prnt.sc/iiJ7emCOL8KY
  - **Multi Deletion:** https://prnt.sc/NYsc_Jqk-Shy

6. Pagination

- **Features:**
  - Incorporates pagination to display file records in manageable chunks, enhancing navigation and performance for larger datasets.
  - Users can quickly navigate between pages to locate specific files or records without overwhelming the interface.

7. Search Functionality

- **Features:**
  - Implements a comprehensive search bar to allow users to search across all table fields.
  - Results are displayed in real-time, significantly improving accessibility and efficiency when locating specific files or data entries.

Usage Instructions

User Registration and Login

1. **Register:** Complete the registration form with basic information to create an account.
2. **Login:** Enter credentials (username and password) to access the dashboard and begin using the system.
3. **Logout:** Use the logout button located in the header section to securely end your session and protect your data.

File Management

1. **Uploading Files:**
   - Go to the dashboard.
   - Open the Upload File modal, select a file, and upload it.
   - A confirmation message will indicate successful uploads.
2. **Viewing Files:**
   - Open the View Uploaded Files modal to see a list of uploaded files.
   - Use the View button to preview files directly in the modal or open them in a new tab.
3. **Deleting Files:**
   - Select files using the provided checkboxes.
   - Click the Delete button to remove selected or all files based on preference.

Navigation

1. Utilize pagination controls at the bottom of the table to navigate between pages effortlessly.
2. Leverage the search bar to filter and find specific records or files by entering relevant keywords.