

File Sharing Web Application

Technology Stack

- **Back-End:** REST API using one of the following frameworks:
 - Java: Spring Boot
 - PHP: Laravel / CakePHP
 - Python: Django / Flask
 - Node.JS/JavaScript: Express.js / NestJS
 - **Front-End:**
 - A modern front-end framework for consuming the REST API:
 - React.js or Vue.js
 - **Form Validation:**
 - Both client-side and server-side validation for all forms data.
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Application Features

1. User Authentication and Authorization

- **User Registration**
 - Fields: First Name, Last Name, Email Address, Password, Confirm Password, Date of Birth.
- **User Login**
 - Users log in using email and password.
- **Change Password**
 - Authenticated users can change their password by inputting old password, new password and confirm password.
- **Forgot Password**
 - Users can reset their password by receiving a reset link sent to their registered email address.

2. File Management

File Upload

- Authenticated users can upload files.
- Drag-and-drop upload functionality supported.
- Multiple file uploads in a single request.
- Maximum individual file size: **100 MB**.
- Maximum total storage per user: **1 GB**.

File Listing

- Paginated list view of uploaded files with search functionality.
- Users can:
 - Download files.
 - Delete files.
- Users can only access files they have uploaded.

3. File Sharing

Public File Sharing

- Authenticated users can share their own files with external users (public share).
- Required input for sharing:
 - Recipient's email address.
 - Expiration time in hours.
 - Message for displaying in the email.
- A unique shareable link is sent via email to the recipient.
- Same file can be shared with multiple recipients (each with a unique share URL).
- Shared links are accessible only within the defined expiration period.
- Public users can view and download the file using the share URL.

Shared File List

- Authenticated users can view a list of all shared files.
- List includes:
 - File name
 - Share date
 - Status of whether the public user has accessed the file