

# Assignment for Fullstack Developer

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## Objective

Build a full-stack app where:

1. The **frontend** allows users to upload files and share with other users (like Google Drive).
  2. The **backend** handles file storage and the logic required for the functionality.
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## Requirements

### 1. File Upload

- Users should be able to upload files (PDF, images, CSV, etc.).
  - Allow bulk uploads.
  - Store the files in any backend storage of your choice (local, cloud, or database).
  - Display uploaded files in the user's dashboard with basic metadata:
    - filename
    - type
    - size
    - upload date
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### 2. File Sharing

#### a. Share with specific users

- The owner chooses one or more users who can access the file.
- Only those users should be able to view or download it.

#### b. Share via link

- Generate a shareable link (URL) that grants access to the file.
  - Only users with an account should be able to access the file using that link. **Public access must be blocked.**
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## Access Control & Security (Critical)

- Enforce proper authorization checks across all sharing methods.
- A user who is not explicitly permitted must not be able to access the file, even if they have the URL.
- Validate uploaded file types and sizes.

## Bonus Features (Optional – pick at least one)

### 1. Link Expiry

- Allow the owner to set an expiration time for a share (user/link).
- After expiry, access should be automatically revoked.

### 2. Audit Log

- Per-user roles (owner/viewer).
- File activity log (shares & downloads).

### 3. File compression

- Store files in a compressed format to avoid excessive storage usage.
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## Tech Stack

Part	Tech (choose any)
Frontend	Vue.js, ReactJs
Backend	Node.js, Express
DB	MySQL, MongoDB

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## Constraints

- All this code should be added to a GitHub repo
- Do not use ChatGPT or any AI tools to generate the **complete** assignment.
- Provide a **live-hosted** version of the app (e.g., Vercel, Netlify, Render, Fly.io, Railway, etc.) so we can test it easily.
- Include brief instructions on how to run the app locally.