Take Home Assignment for Backend Engineer

Exercise: FileBox

FileBox is a simple personal, web-based, api-driven file/document management service.

Requirements:

1. As a user, I should be able to upload new documents to FileBox
    a. Only PDF, JPG and PNG files are allowed. File types should be validated not just based on the file extension, but based on file contents.
    b. Maximum file size allowed is 10MB.
2. As a user, I should be able to view all uploaded documents as a table/list. This file/document entry in this table should have attributes such as file name, uploaded date, file type (example - PDF, JPG etc.) and file size in KB.
3. As a user, I should be able to hide a single or multiple files from my uploaded files. By default, the table/list view of files should not list hidden files. A separate checkbox/toggle saying “show hidden files”, should allow to view all hidden and normal files in the same list. Hidden files in the list should have a demarcation flag indicating those are hidden files.
4. As a user, I should be able to delete a single or multiple files from my uploaded files.

Implementation guidelines:

1. Design required APIs following REST principles. User-interface or front-end for above requirements is optional.
2. All implemented APIs must be verifiable using Postman, Httpie or any equivalent tool.
3. Use a simple in-memory RDBMS or No-SQL store such as SQLite or MongoDB w/ in-memory engine.

4. API design must have all possible request and response payloads along with error/negative scenarios.
5. Programming languages can be either Python, NodeJS/TypeScript or Golang. Feel free to use any open source 3rd-party libraries or frameworks as necessary.

Submission guidelines:

1. Submit the entire solution as a public GitHub repo.
2. In README, provide enough documentation on how to build, locally run the application and test application using Postman (or any equivalent)
3. Optionally, you chose to host the above application on any free cloud provider and details on how to access the same.