

ResMed - Take home exercise

Goal

As a university professor, I want a simple way to share resource files with my students. Your task is to build a lightweight file-sharing API that supports uploads and downloads, stores files on disk, and makes it easy to retrieve shared files via a simple HTTP endpoint.

Requirements

Build a minimal file sharing service with the following functionality:

Endpoints

- POST : Accepts a file upload (multipart/form-data). Returns a unique file ID or name used to retrieve it later.
- GET : Downloads the file associated with the given ID.
- GET : Lists all uploaded files (metadata only - no content).

File Metadata

- File name
- Size (in bytes)
- Upload timestamp
- Unique ID

Storage

- Store file content
- Store metadata

Constraints

- No authentication required.
- Max file size: 20MB.

Tasks:

- What happens if something goes wrong during a request? How does the API communicate this to a client?
- How can you confirm the code works?
- How can someone else run and test the API quickly?

Submission

- All source code
- Any notes on assumptions or design decisions