

Task No. 011

Date: 26-09-2025

You are a **backend Node.js (Express) developer** working on a small but practical local tool. The goal is to build a **mini file manager server** that runs locally on a Windows machine.

The Scenario

Imagine a user double-clicks a **.bat file**.

When they do this, three things happen automatically:

1. The **Node.js Express server** starts running on `http://localhost:3000`.
2. Their **default web browser opens** to that address to access the file manager.
3. Their **Windows File Explorer opens** directly in the project's storage folder.

Now, in the browser, the user sees a **simple file manager interface** powered by your API. Through this system, they can:

- Browse folders and see files.
- Create new folders or files.
- Rename, copy, move, or delete files/folders.
- Upload files from their computer.
- Download files back.
- Click a **backup button** → this creates a copy of the whole storage folder, zipped or duplicated, inside a new folder on the Windows Desktop. The backup folder must include the current logged-in Windows username in its name (e.g., `backup-john-2025-09-26`).

Deliverables

- The .bat script to start everything (server + browser + file explorer).
- Node.js/Express project with a REST API for all file operations.
- API documentation (Swagger/OpenAPI).
- An **SRS document** describing the system requirements and flows.
- Push the full code to GitHub.

Acceptance criteria

- The server runs fully locally without extra setup (just Node.js + npm install).
- Paths are always restricted to the **storage root directory** (no escaping allowed).
- Errors are handled gracefully (e.g., trying to rename to an existing name, or delete a missing file).
- The backup is created successfully every time with the correct username and placed on the Desktop.
- Clear API docs are included so frontend (or another dev) can use the endpoints easily.
- Code is clean, commented, and version-controlled on GitHub.

Execution Time: 1 Week Only

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