**PREREQUISITES**

**1. Software Installation**

**Node.js:**

Version: 16.x or later (18.x or 20.x recommended for best compatibility with modern packages).

Download: Get it from nodejs.org.

Installation: Run the installer for your OS. Verify with:

*bash*

*node -v*

*npm -v*

**Git:**

Download: Install from git-scm.com.

Installation: Follow the installer instructions. Verify with:

*bash*

*git --version*

**Ollama:**

Download: Get the installer from ollama.com/download (Windows version if on Windows).

Installation: Run the installer. No additional setup is needed—it runs as a standalone app.

[*http://localhost:11434*](http://localhost:11434)*.*

**2. Node.js Packages**

Your script uses the following built-in Node.js modules, so no external npm packages are required beyond Node.js itself:

*bash*

*npm install node-fetch*

Then modify the script to *const fetch = require('node-fetch');.*

**3. AI Model: gemma3:1b**

Source: Ollama library.

Installation:

Start the Ollama server:

*bash*

*ollama serve*

Runs on *http://localhost:11434* by default. Keep this terminal open.

Pull the gemma3:1b model:

*bash*

*ollama pull gemma3:1b*

Downloads ~2-3 GB (first run takes time; subsequent runs use the cached model).

Verify: Ensure it’s listed:

*bash*

*ollama list*

**4. GitHub Repository Setup**

Repository: You need a GitHub repo with a Word document (e.g., myfile.docx).

Add a Word document (e.g., myfile.docx) via GitHub’s web interface or locally:

*bash*

*git clone https://github.com/username/repo.git*

*cd repo*

*copy path\to\myfile.docx .*

*git add myfile.docx*

*git commit -m "Add Word document"*

*git push origin main*

*bash*

*cd C:\Users\abhis*

*git clone https://github.com/username/repo.git*

Example: If your repo is named repo, the folder C:\Users\abhis\repo will contain myfile.docx.

**5. File Preparation**

Location: Ensure the Word document is in a folder under C:\Users\abhis\ (e.g., C:\Users\abhis\repo).

Supported Formats: Your script handles .docx, .txt, .pptx, .pdf, .png. For .docx, it reads raw text via fs.readFileSync, which works since Word docs are UTF-8 readable in their unzipped form, though formatting may be lost.

**6. Script File**

**Save the Code:** Save your provided code as filesorter.js in C:\Users\abhis\ or another directory.

**Adjust Path:** If your repo isn’t directly under C:\Users\abhis\, update const baseDirectory = 'C:\\Users\\abhis'; to the correct path.

**Step-by-Step Setup**

**Install Node.js:**

Download and install from nodejs.org.

Verify: *node -v* (e.g.*, v20.11.0*).

**Install Git:**

Download and install from git-scm.com.

Verify: git --version (e.g., git version 2.43.0).

**Install Ollama:**

Download from *ollama.com/download.*

Run the installer.

Start the server: *ollama serve.*

Pull the model: *ollama pull gemma3:1b.*

**Set Up GitHub Repository:**

Clone your repo to *C:\Users\abhis\:*

*bash*

*cd C:\Users\abhis*

*git clone https://github.com/username/repo.git*