1. Tool Installations:
   1. Install VS Code - <https://code.visualstudio.com/>
   2. Install Python (3.10+) -  <https://www.python.org/downloads/>

On the first screen, check “Add Python to PATH”.

Finish install.

* 1. Install Node.js (LTS) + npm - Download LTS: <https://nodejs.org/>

Run installer → accept default

If PowerShell blocks npm (Execution Policy error) paste: Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned

* 1. Install Git - <https://git-scm.com/download/win>

Run installer → accept defaults.

* 1. VS Code Extensions –

**Python, Pylance**, **Prettier** (I use it for formatting but optional)

1. Run the code:
   1. Open PowerShell where you want the project folder, then
      1. Paste: git clone <https://github.com/aditn2003/chemical-web-app.git>
      2. Next Paste: cd chemical-web-app
      3. Next Paste: code .
   2. In VS Code: **Terminal → New Terminal,** then
      1. Paste: cd backend
      2. Next Paste: pip install -r requirements.txt
      3. Run the Backend, Paste: python app.py
      4. You should see something like: \*Running on <http://127.0.0.1:5000>
   3. In VS Code: **Terminal → Split Terminal** button to open Terminal B, then
      1. Make sure the directory is chemical-web-app
      2. Paste: npm install
      3. Next Paste: npm run dev
      4. You should see: > chemical-web-app@0.0.0 dev

> vite

VITE v7.0.6 ready in 712 ms

➜ Local: http://localhost:5173/

➜ Network: use --host to expose

➜ press h + enter to show help

* + 1. Open this localhost link in your browser

1. You should be able to see the app now and the setup is complete