Speech Scorer – Local Deployment Guide (Simple Explanation)

This guide explains, in very easy words, how to run your Speech Scorer project on your own computer (local server).

----

1. Install the required software

You must install three things:

1. Python (for backend)

- Download from: https://www.python.org/downloads/

- While installing, check "Add Python to PATH"

2. Node.js (for frontend)

- Download from: https://nodejs.org/en/download

- After installation:

Open a terminal and type:

node -v

npm -v

If you see version numbers, it's installed correctly.

3. Git (optional but recommended)

- Download from: https://git-scm.com/downloads

- Type:

git --version

If it shows a version, Git is installed.

----

2. Download or Clone the Project

Option A: If you downloaded a ZIP file:

- Extract it into a folder like:

C:/Users/ALAM/PycharmProjects/speech-scorer/

Option B: If using Git:

- Open PowerShell

- Type:

git clone https://github.com/your-username/speech-scorer.git

cd speech-scorer

----

3. Run the Backend (FastAPI)

----

1. Open a new terminal window.

2. Go to the backend folder:

cd speech-scorer/backend

3. Create a virtual environment:

python -m venv .venv

4. Activate it:

.\.venv\Scripts■ctivate

5. Install backend packages:

pip install -r requirements.txt

6. Start the backend server:

uvicorn app.main:app --reload --host 0.0.0.0 --port 8000

7. If everything is OK, you will see:

Uvicorn running at http://localhost:8000/

The backend is now running on:

http://localhost:8000

API docs:

http://localhost:8000/docs

Keep this terminal running.

----

4. Run the Frontend (React + Vite)

----

1. Open a NEW terminal (don't close backend).

2. Go to frontend folder:

cd speech-scorer/frontend/vite-project

3. Install node modules:

npm install

4. Start the frontend server:

npm run dev

5. It will show something like:

Local: http://localhost:5173/

Open this link in browser:

http://localhost:5173

----

5. Using the App

When both servers are running:

- Backend → http://localhost:8000

- Frontend → http://localhost:5173

Features you can test:

- Paste a transcript and click "Score Once"

- Try real-time scoring

- Upload an audio file

- View radar chart

- View detailed score breakdown

----

6. Common Problems & Fixes

Problem: WebSocket error

Fix: Restart backend and frontend.

Problem: Chart not loading

Fix:

npm install chart.js

Problem: Sentiment or grammar missing

Fix:

pip install vaderSentiment language-tool-python

----

7. Summary

To run locally, always start:

Backend:

cd backend

.\.venv\Scripts■ctivate

uvicorn app.main:app --reload

Frontend:

cd frontend/vite-project

npm run dev

End of Guide