
MoDas Suite ReadMe

Prerequisites

Before you begin, make sure you have the following installed on your machine:

- **Python 3.10 or higher** — [Download Python](#)

⚠ **Windows users:** During installation, make sure to check "**Add Python to PATH**" before clicking Install. Without this, `python` and `pip` commands won't work in the terminal.

- **Visual Studio Code** — [Download VS Code](#)

- **Git** — [Download Git](#)

- **Node.js (includes npm)**

1. Go to <https://nodejs.org/>
2. Click the **LTS** download button (recommended for most users)
3. Open the downloaded file (`.pkg` on macOS, `.msi` on Windows) and follow the installer steps
4. Restart VS Code after installation so it picks up the new tools

How to open a terminal in VS Code

All commands in this guide are run inside the **VS Code terminal**. Here's how to open it:

1. Open VS Code
2. In the top menu, click **Terminal → New Terminal**
3. A terminal panel will appear at the bottom of the screen — this is where you'll type all commands

💡 **Tip:** You can open a second terminal (needed later for running the app) by clicking the **+** icon in the top right corner of the terminal panel.

To check if you already have them, open your terminal and run:

```
python --version
git --version
node --version
npm --version
```

Installation

1. Clone the repository

```
git clone https://github.com/fluxguide/modas.git
cd modas
```

2. Create a virtual environment

A virtual environment keeps the project's dependencies isolated from the rest of your system.

```
python -m venv .venv
```

Activate it:

- **macOS / Linux:**

```
source .venv/bin/activate
```

- **Windows:**

```
.venv\Scripts\activate
```

You should see `(.venv)` appear at the start of your terminal prompt.

3. Install dependencies

```
pip install -r requirements.txt
```

4. Install JavaScript dependencies

```
npm install
```

Running the app

You need to start **both** the Streamlit server and the Vite frontend at the same time. Open **two terminals** in VS Code by clicking the **+** icon in the terminal panel.

Terminal 1 — Streamlit backend:

```
source .venv/bin/activate # or .venv\Scripts\activate on Windows  
streamlit run app.py
```

Terminal 2 — Vite frontend:

```
npm run dev
```

The app will open automatically in your browser at <http://localhost:8501>.

How to use it

Step 1 — Upload your data

On the home screen, upload a **.csv** file containing your mobility data.

Step 2 — Select a template

After submitting your file, you'll be taken to the template selection page. Click on a template preview to see details about it, then select the one that fits your data best. Available templates include: Thuringia, VRR, Dresden, and more.

Step 3 — Simulate your story

In simulation mode, your data is loaded into the selected story template. You can interact with and explore how your mobility data is visualised. Use the **"Change file"** button in the top bar to go back to the start and upload a new file.

Troubleshooting

`streamlit: command not found`

Make sure your virtual environment is activated (you should see `(.venv)` in your terminal).

The app opens but shows a blank page or missing styles

Make sure you're running the app from the root of the project directory (`cd modas` before running `streamlit run app.py`).

Unloaded file causes an error