

# A Sustainable Life Advisor

Helping users understand and reduce their carbon footprint

Team Members: Andrea Antinori, Klaudia Plevneshi,  
Tzu-Yin Liao and Monika Qian Wang



# Table of contents

**01**

## Overview

Status Update

**02**

## Live Demo

**03**

## Learnings

What Went Well & Problems Faced



01

# Overview





# Project Status Overview

- **Completed:**

- **Database Schema**

- Emission factors & user input structure finalized

- **MVP Input Form**

- Form fields for transport, distance, energy, gas, and fuel implemented

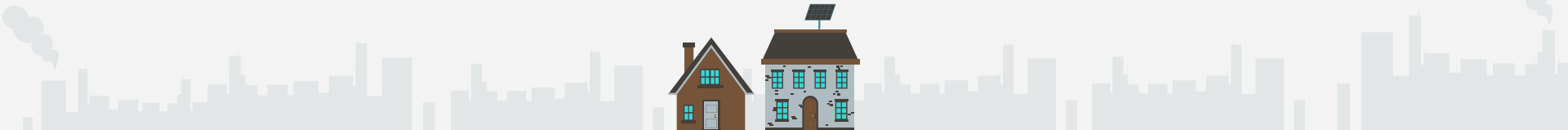
- **Emission Calculation Logic**

- Developed in `utils.py` using rule-based CO<sub>2</sub> estimation

- **AI Suggestion Integration**

- Live connection to Mistral API with dynamic prompt generation

- Markdown converted to readable HTML for display





# Project Status Overview

- **In Progress:**

- **Front-End Polishing**

- Improving layout consistency and result formatting.

- **Static Pages**

- Info page is in progress; About Us will follow the Figma design.

- **User History / Session Tracking** *(Planned)*

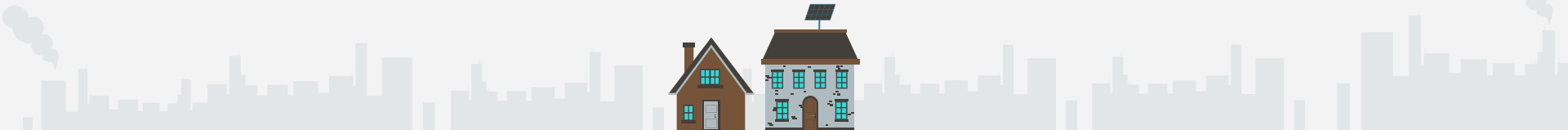
- We plan to store past results for future comparison.

- **Result Page Separation** *(Planned)*

- Form and results will be shown on separate pages.

- **Color-coded Threshold System** *(Planned)*

- Footprint results will use colors to show sustainability level.



02

# Live Demo



03

# Learnings



# Learnings from Project

- **What Went Well So Far**

- **Database and Calculation Setup**

- Getting the emission factors right from the start made the calculations work smoothly

- **AI Integration Actually Worked**

- Connecting to Mistral API live worked out smoothly and making prompts change based on what users enter gives way better suggestions than generic advice

- **Form Building Was Straightforward**

- Covering transport, distance, energy, gas, and fuel in one form wasn't as complicated as we thought and users can fill it out without getting confused

- **Converting AI Output**

- Turning the AI's markdown into HTML that looks good took some work but was worth it and users can actually read and use the suggestions now





# Learnings from Project

- **Where We Faced Problems:**

- Formatting issue in AI answers
- When starting Django template, folders creation got messy
- Finding accurate formulas for the calculations of CO<sub>2</sub> emissions

- **How We Plan To Solve Them:**

- Removed problematic syntax (like `###`), and adjusted display logic in template
- Organized the structure by following Django's clear naming conventions and a consistent hierarchy
- Used AI for fair calculations



# Thanks!

