Installation Guide

Tourist Weather Advisor Chatbot

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Project: AI Use Case (DLMAIPAIUC01)

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- **IDE Used:** PyCharm
- **Environment:** Python Virtual Environment (venv)
- **Operating System used:** macOS

1. System Requirements

- Python **3.9 or higher** (download from https://www.python.org/)
- PyCharm (Community or Professional Edition)
- Internet connection (required for API access)
- OpenWeatherMap API key (free account)

2. Setting up

1. **Project files**
   - Download zip file provided with Phase 3 submission
   - Extract zip file to a directory
2. **Create a Project**
   - Open PyCharm >*File >New Project, select the extracted directory, and check "Create a virtual environment"*
   - Select New Virtual Environment (venv)
3. **Install Required Libraries**
   - In PyCharm, go to:
     - File >Settings >Project >Python Interpreter
     - Click the "+" button to add packages
   - Search and install the following packages:

- Chatterbot ==1.0.8
- spacy ==3.7.0
- streamlit==1.29.0

- o Download the spaCy (NPL) model:
  - python -m spacy download en_core_web_sm

4. **Add Your API Key**
   - o Go to https://openweathermap.org/api
   - o Create an account and get a free API key.
   - o Replace the placeholder in code:
     - API_KEY = "your_api_key_here"

Note: Requires an active OpenWeatherMap API key.

5. **Run the Bot**
   - o Open the terminal in PyCharm
   - o Run the chatbot:
     - streamlit run WeatherBot_Streamlit.py

3. **Troubleshooting**

Issue	Possible Cause	Solution
ModuleNotFoundError: chatterbot	Missing library	Install using PyCharm or pip install chatterbot
Invalid API key	Wrong or inactive key	Re-generate key in OpenWeatherMap and replace in code
SSL/urllib3 warning	macOS LibreSSL conflict	Use Python 3.9 or above
Bot doesn't respond	Streamlit cache	Stop and re-run Streamlit app