**AirBot App**

This project is a web application built using Streamlit that allows users to get flight information along with weather details. The app integrates APIs to fetch flight schedules and real-time weather data, providing a seamless experience for users interested in travel and meteorological updates.

**Features**

* **Flight Search**: Enter source and destination cities to find flight schedules.
* **Weather Updates**: Retrieve real-time weather data for the departure and arrival cities.
* **API Integration**: Uses flight and weather APIs for accurate and up-to-date information.
* **User-Friendly Interface**: Interactive Streamlit UI for a smooth user experience.

**Tech Stack**

* **Frontend**: Streamlit (Python-based framework for building web apps)
* **APIs**:
  + Flight information API
  + Weather API
* **Backend**: Python for API integration and data processing

**Installation and Setup**

1. Clone the repository:
2. git clone https://github.com/your-username/flight-weather-app.git
3. cd flight-weather-app
4. Create a virtual environment and activate it:
5. python -m venv venv
6. source venv/bin/activate # On Windows: venv\Scripts\activate
7. Install dependencies:
8. pip install -r requirements.txt
9. Add your API keys:
   * Replace placeholders in the code with your actual API keys for the flight and weather APIs.
10. Run the app:
11. streamlit run app.py
12. Open the app in your browser. It typically runs at http://localhost:8501/.

**Usage**

1. Open the app and enter the following details:
   * **Source City**: The city you are departing from.
   * **Destination City**: The city you are traveling to.
2. Click on the "Search" button to fetch flight details and weather information.
3. View the results displayed on the app.

**File Structure**

flight-weather-app/

├── app.py # Main application file

├── requirements.txt # Dependencies

├── README.md # Project documentation

└── .gitignore # Git ignore file

**Requirements**

* Python 3.7+
* Streamlit
* Requests
* API keys for flight and weather data (ensure valid subscriptions to the respective services)

**Future Enhancements**

* Add support for more APIs (e.g., hotel or car rental services).
* Include a map visualization for flight routes.
* Cache data for faster repeated queries.
* Expand to support multiple languages.

**Contributing**

Contributions are welcome! To contribute:

1. Fork the repository.
2. Create a feature branch:
3. git checkout -b feature-name
4. Commit your changes:
5. git commit -m "Add feature-name"
6. Push to the branch:
7. git push origin feature-name
8. Open a pull request.

**License**

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**Acknowledgments**

* [Streamlit Documentation](https://docs.streamlit.io/)
* [Flight API Provider](https://docs.flightapi.io/)
* [Weather API Provider](https://www.weatherapi.com/docs/)