Flight Assistant – Quick Start Guide
v. 2022-02

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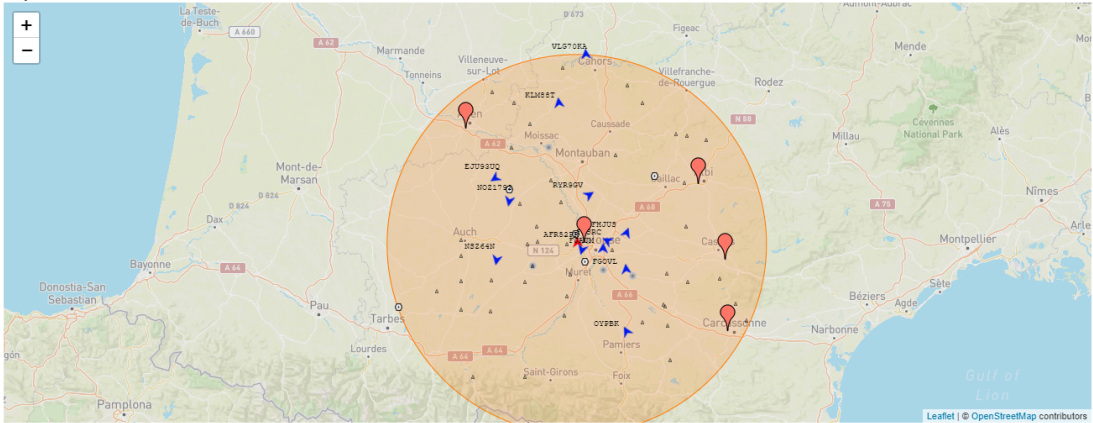
Introduction

Blabla Dire qu'on se met à la place d'un avion
The app is available here:

https://pie2021-testapp-v17.herokuapp.com/

Contents

1 Quick start

This section will guide you to select a flight, and give instructions on asking queries.

1.1 Required tools

- **Chrome** web browser is needed
- Microphone

1.2 App launch

- Go to the following webpage :

  `https://pie2021-testapp-v17.herokuapp.com/`

- Allow access to the microphone

1.3 Flight following

- Select a flight to follow it. The easiest way is to click on one of the blue cursors representing the flights on the map (Figure 2). Else, you can search a flight by its callsign in the "Follow a flight" field (Figure 1)

Figure 1: Flight search by callsign

- On the map you may see that the orange zone in the map is centered on the selected flight
- The "START" button in the Speech Recognition section is also activated.

1.4 Queries

Once a flight is selected, you can ask queries to the flight assistant using the push-to-talk button, set to the 'A' key of the keyboard. Queries can be asked either in natural language with plain sentences, or with sequence of specific words.

- Push the push-to-talk button ('A' key) and maintain it.
- Ask your question. A transcript is also displayed in real-time.
- Release the push-to-talk button to send your query.

The exhaustive list of implemented queries with a list of possible questions are available at the "Available queries" section of this document.
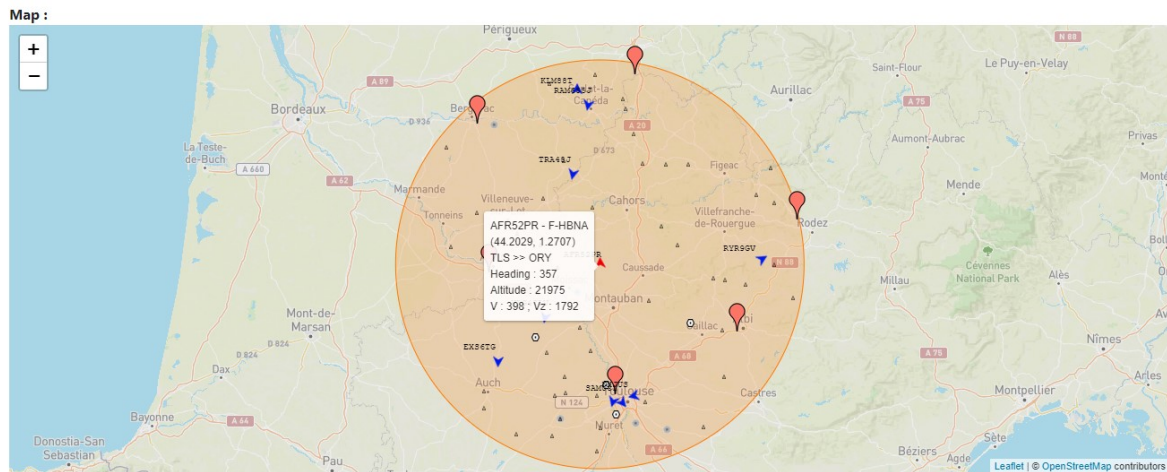
Figure 2: Map after selection of a flight
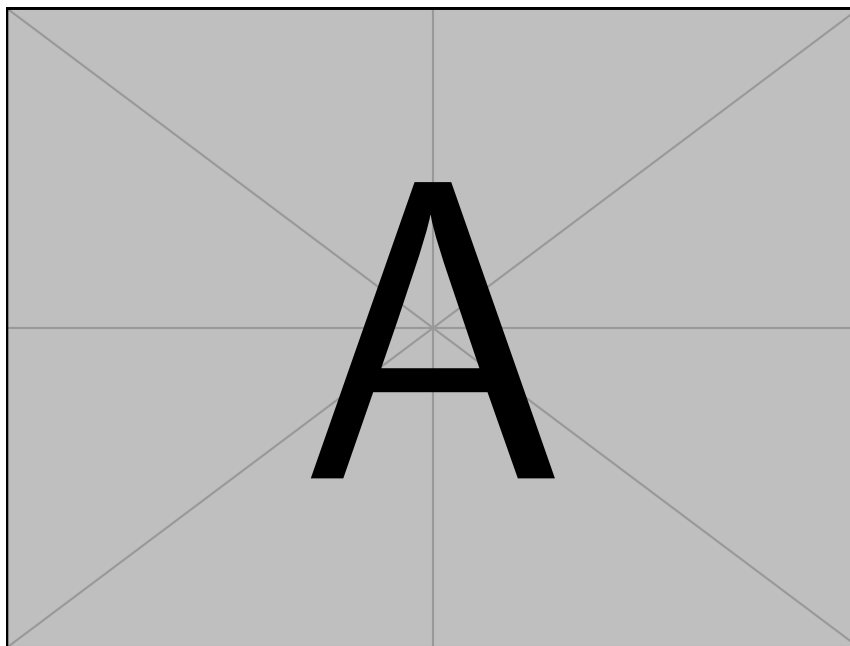
2 Overview of the user interface

Figure 3: User interface

3 Queries

3.1 Static queries

Can be [arrival], [departure], [the nearest airport]

3.2 Dynamic queries

3.3 Checklists

Checklists queries have not been implemented depending on the model of the airplane selected. These queries are only for test purposes.

Available queries

Intent	Description	Examples
Static queries (that will not change during the flight)		
Departure / Arrival airport	Returns the name and the ICAO of the departure / arrival airport	"What is the arrival airport ?"
Runways at an airport	Returns the list of runways at the an airport	"What are the runways at [Toulouse Blagnac] ?"
Frequency at an airport	Returns the frequency value of a frequency channel at an airport	"[TWR] frequency at [Toulouse Blagnac]"
Dynamic queries (that may change during the flight)		
Current flight parameters	Returns a current flight parameter (speed, altitude, Vz, heading...)	"What is my [altitude] ?"
Nearest airport	Returns the nearest airport from the current position	"What is the nearest airport ?"
Nearest trafic	Returns the nearest trafic from the current position	"Where is the nearest trafic ?"
Nearest runways	Returns the list of runways at the nearest airport	"What are the nearest runways ?"
Weather queries		
Weather at airport	Returns a global status of the weather or a specific parameter at an airport	"What is the weather at [Toulouse Blagnac] ? "What is the [visibility] at [Toulouse Blagnac] ?"
Weather at location	Returns a global status of the weather or a specific parameter at a location	"Give me the weather at [Toulouse] ?" "[Temperature] at [Paris]"
Checklists		
Approach checklist	Returns the approach checklist	"Give me the approach checklist"
Landing checklist	Returns the landing checklist	"Landing checklist"