

METIS PROJECT 3 PROJECT PROPOSAL: DATA ENGINEERING MODULE

INTERACTIVE FLIGHT DASHBOARD USING A FLIGHT DATA PIPELINE

Taking advantage of the reduced passenger activity due to Covid-19, a decision has been taken to upgrade various passenger amenities at Boston's Manchester Airport in the hope of providing a better passenger experience when the numbers eventually resume. It is hoped this investment will help turn a new page at the previously under-performing airport and boost revenue and self-sustainability,

Product Description and Minimum Deliverables

A new flight-info dashboard, among other amenities, is to be redesigned. A working template illustrating the soft features of the dashboard has been commissioned.

Minimum requirements include:

- Interactive Flight Route Information
- Distance
- Flight duration
- Graphical visualization where required
- Geographical route visualization whenever possible

The dashboard should be as informative as possible.

Dashboard must be fed with raw data at the backend.

Congestion must be kept at the minimum.

Data requirements:

Any legally acquired dataset can be used to feed the pipeline.

Volume: 100,000 data points minimum

Tools:

Open ended: Webscraping, data importation, SQL, Python, MongoDB, Cloud Services..etc..

Project is open to all legal tools and methods, However, it is time-bound.

MVP:

A working or partially working but steadily improving template.

Project Duration: 2 weeks