IMPROVE OPENSTREETMAP A RECEIPT AT A TIME

COFFEOSM

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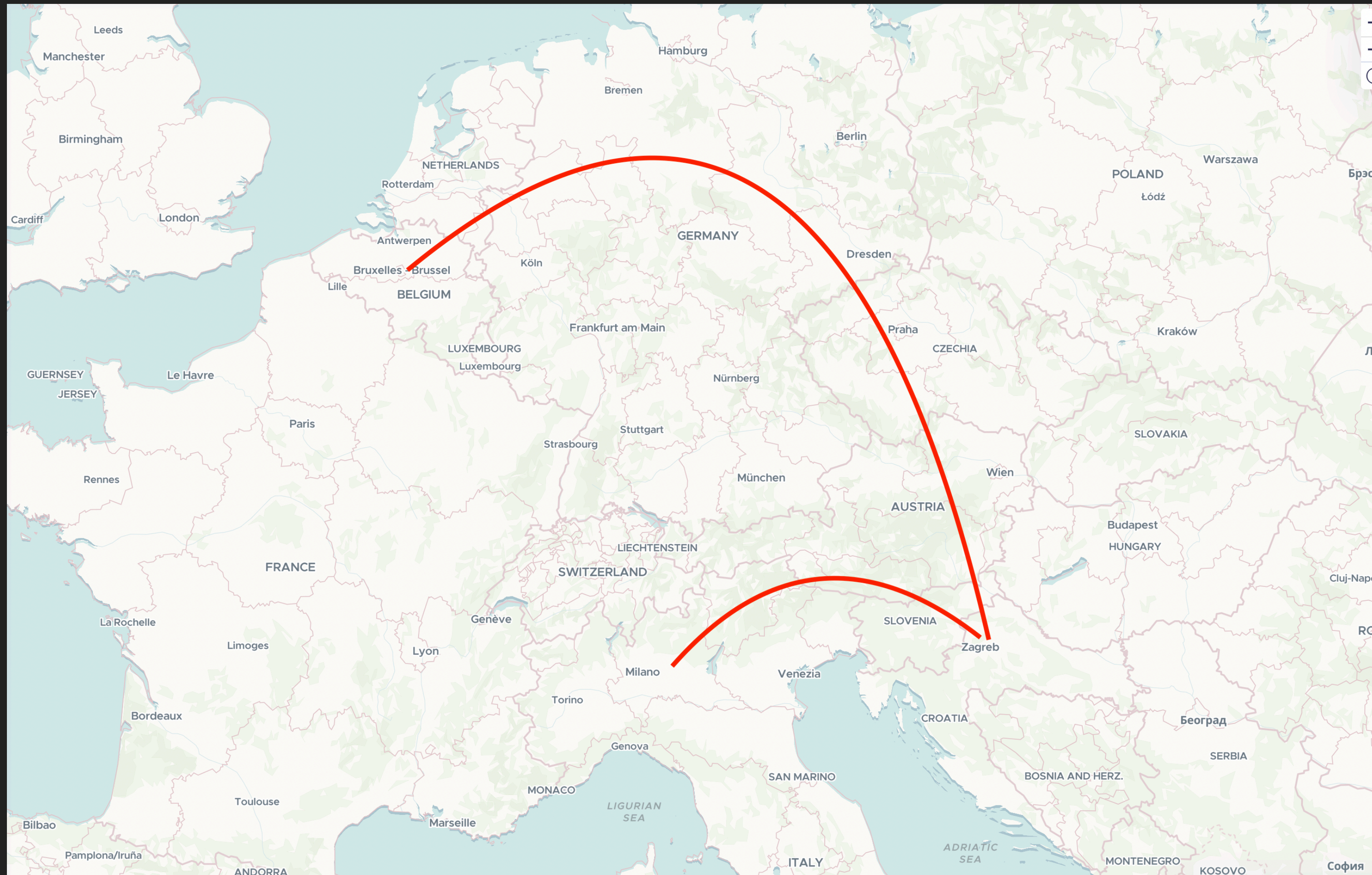
THE USUAL PROCESS

▸ Is the place already in OSM?

▸ Gather all information needed (name, position, address, phone, website)

▸ Open the web editor (or your preferred one)

▸ Insert all the relevant data

▸ Check it

▸ Save it

THE LONG WAY TO FOSDEM

THE OSM MAIN PROBLEM (IT'S A JOKE)

BOB COMES TO THE RESCUE

COFFE OSM BENEFIT

▸ The receipt contain all the need information

▸ Places existences check is automated

▸ The app tokenise the information for you

▸ Just copy/paste into OSM editor (or insert directly?)

PROJECT STRUCTURE

▸ Backend: Python API based on FastAPI

▸ Frontend: VUE App

▸ Future: Integration with other editors, Stand Alone Mobile App? PWA?

HOW IT WORK (ACTUALLY)

▸ Receipt is uploaded to a server

▸ Exif data are removed

▸ Image (should) be prepared for OCR

▸ OCR

▸ Parsing and entity recognition (libpostal, spacy, custom ML model?)

▸ Search similar place on OSM (by name, location)

WHAT'S NEED TO BE DONE

▸ Improve data extraction (image preprocess, external ocr, custom ML Model)

▸ Frontend PWA, Flutter APP, integration

▸ Integration:OSM login and editing API

▸ More receipt to test and improve!

▸ Ideas? What can be done different (and better)

▸ Error handling

MAKE BOB HAPPY

▸ More Pubs

▸ More Beer

▸ More Fun

▸ Improve OSM Together

THANK YOU

https://gitlab.com/netvandal/coffeosm

http://coffeosm.tameni.it (temp playground)

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