Attempt at building a transit app in Africa

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Presentation



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- Software engineer based in Nantes, France
- JavaScript, Containers, and FP programming
- Transit and railway enthusiast

Idea



- Foreign student
- Easily travel through the city
- Discover new places
- Fully autonomous

Image: https://android-france.fr/2012/12/mticket-tan-application/

Idea



 How does foreign nationals and locals do to travel through the city?

 How to make public transit more accessible to everyone in the city?

Image: https://en.wikipedia.org/wiki/Sousse

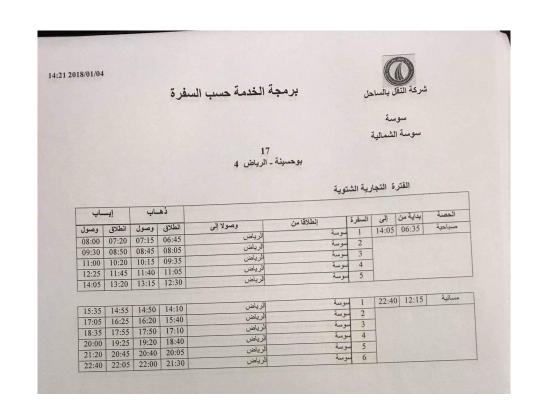
The data



- No open data provided on the web
- Data was really poor
 - few lines available
 - departure and arrival stations
 - Same for timetable

Image: https://www.flickr.com/photos/68628359@N04/15571864128/

The data



The data

- Map stations for each line
 - Identified a human SPoF.
 - Be careful, you might fooled.
 - Had fun naming station.
- Estimate the estimation
 - Estimate the bus departure from each stations
- Turn a spreadsheet to a manual GTFS archive



Integration

- Build a transit SPA based on GMaps
- Facebook Messenger chatbot
 - require user location in order to detect closet departure in nearby station
 - Usage of <u>geo-redis</u> to identify nearby stations

Conclusion

- Why did this attempt failed?
 - Implemented lines no that attractive.
 - No communication / Marketing with the community.
 - approximate timetable per station

- Next Steps?
 - Update and upload GTFS archive to OSM
 - ...

Thank you