Attempt at building a transit app in Africa

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- 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?

The data

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

<table>
<thead>
<tr>
<th>إعداد</th>
<th>إعداد</th>
<th>الساعة</th>
<th>التوقيت من</th>
<th>التوقيت إلى</th>
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<tbody>
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<td>7:20</td>
<td>07:15</td>
<td>06:45</td>
<td>1ساعة</td>
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<tr>
<td>9:30</td>
<td>8:50</td>
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</tbody>
</table>
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 closest departure in nearby station
  - Usage of geo-redis 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