

Data Engineer Challenge

Challenge:

We are expanding and optimizing our waste collection processes by solving today's fulfillment issues and tomorrow's collector's efficiency.

Tracking and recording collectors' routes and then Visualizing their movement history on a map will impact our OPs playbook positively and the below-educated solution might be our savior.

Proposed Solution:

It is proposed to use our real-time tracking tool data which records collectors' locations, device ids, collector ids, and timestamps every two seconds in GCM real-time DB.

GCM RealTime DB is a JSON object database that stores data in a series of nodes. (Attached are 4 collector nodes)

What should you do?

- Propose the extraction and transformation pipeline
- Transform the attached data into a format that allows data analysts to generate the required map