FIRST AID CENTER PROJECT PROPOSAL

Proposed by
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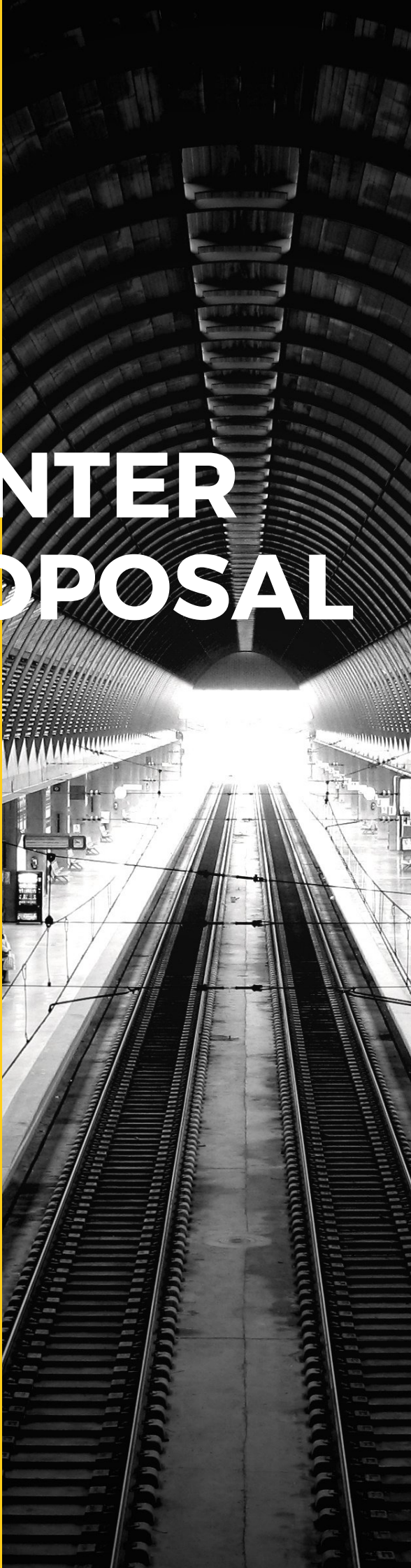

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SCENARIO

Subway stations in New York City faced congestion in some stations more than others; to investigate the causes, this case was presented to us in order to solve the congestion problem.

And an assumption of the possibility of fainting at MTA stations or shortness of breath, which necessitates a quick intervention of the case, otherwise passengers will be crowded and the track will be irregular.

To avoid this problem, MTA stations located far from major hospitals are equipped with a mini-first-aid center, and a first-aid box is located at other stations.

NEED

This analysis will assist in resolving the problem of the New York City subway stations by providing a first aid post to the station in need.

QUESTIONS

- Does the busiest station have anything to do with the number of passengers Compared to other stations?
- Did a passenger get injured at the train station and cause a crowd?
- Is the busiest station far from the hospitals?
- Does having a first aid center at the train station reduce passenger congestion?

DATA DESCRIPTION

We need two datasets, one from MTA data and the other from NYC OpenData:

For the subways station NYC dataset, we use the features of LINENAME and EXITS to find out the number of passengers on each trip and STATION to find out the locations of each station, the analysis will be carried out over a period of five months start from 1 May 2021 to 25 September 2021.

For the NYC Hospitals dataset, we need to determine the location feature to measure the distance between the hospital and the station.

The goal is to show crowded train stations, as a result of their distance from city hospitals.

TOOLS

Jupyter Notebook, Python, Matplotlib, Numpy ,SQLite and SQLAlchemy