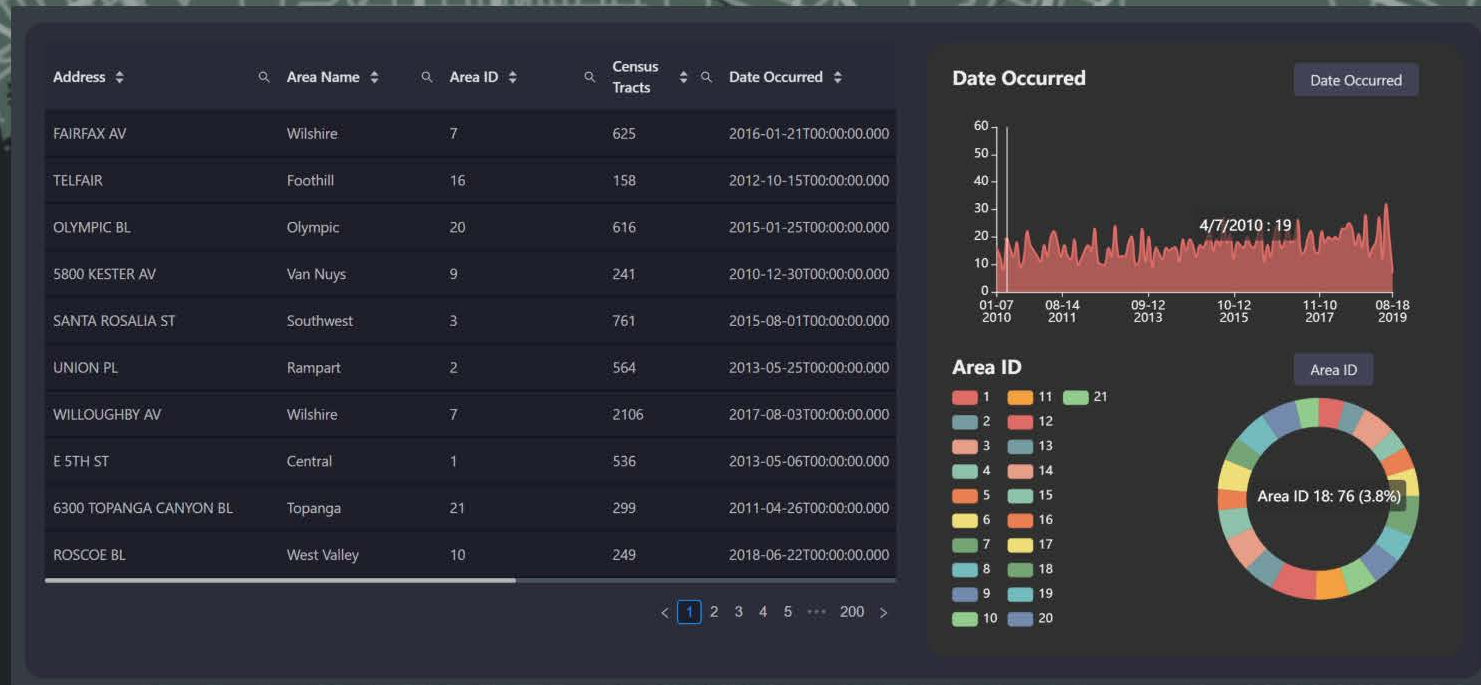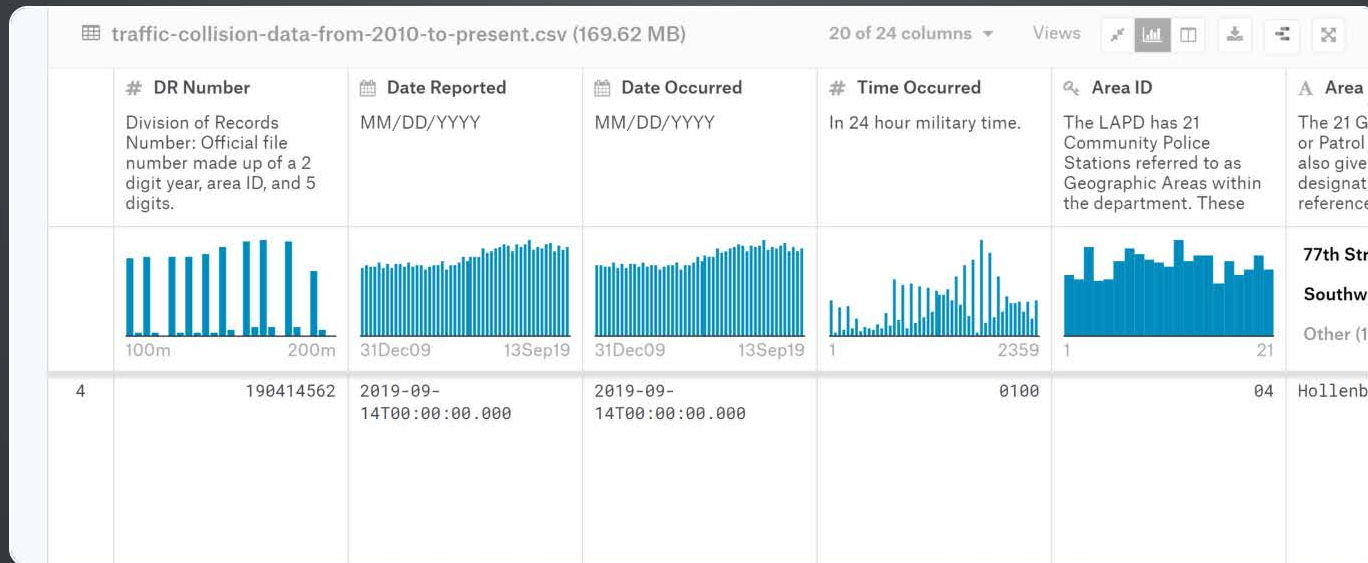# LA Traffic Collision Inspector

Tao Xu, Xirui Zhong

Group 8

Goal

Develop a web app similar to dataset interface on Kaggle that supports sorting, filtering with data visualization features.
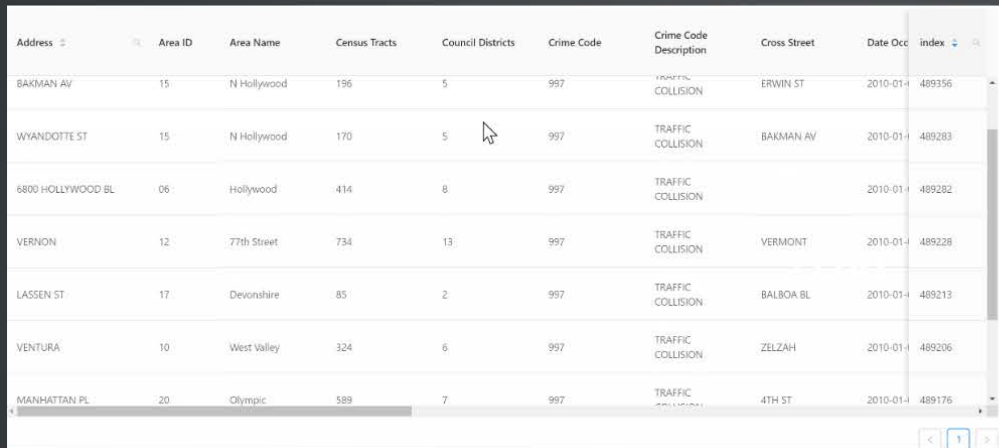
Los Angeles Traffic Collision Data

```
1  {
2      "DR Number":"190716266",
3      "Date Reported":"2019-09-07T00:00:00.000",
4      "Date Occurred":"2019-09-07T00:00:00.000",
5      "Time Occurred":"1600",
6      "Area ID":"07",
7      "Area Name":"Wilshire",
8      "Reporting District":"0789",
9      "Crime Code":"997",
10     "Crime Code Description":"TRAFFIC COLLISION",
11     "MO Codes":"",
12     "Victim Age":"43",
13     "Victim Sex":"F",
14     "Victim Descent":"B",
15     "Premise Code":"101",
16     "Premise Description":"STREET",
17     "Address":"21ST",
18     "Cross Street":"2ND",
19     "Location":"{'human_address': '{\"address\": \"\",
   \"city\": \"\", \"state\": \"\", \"zip\": \"\"}',
   'longitude': '-118.3189', 'latitude': '34.038'}",
20     "Zip Codes":"23079",
21     "Census Tracts":"658",
22     "Precinct Boundaries":"927",
23     "LA Specific Plans":"",
24     "Council Districts":"12",
25     "Neighborhood Councils (Certified)":"19"
26  }
```
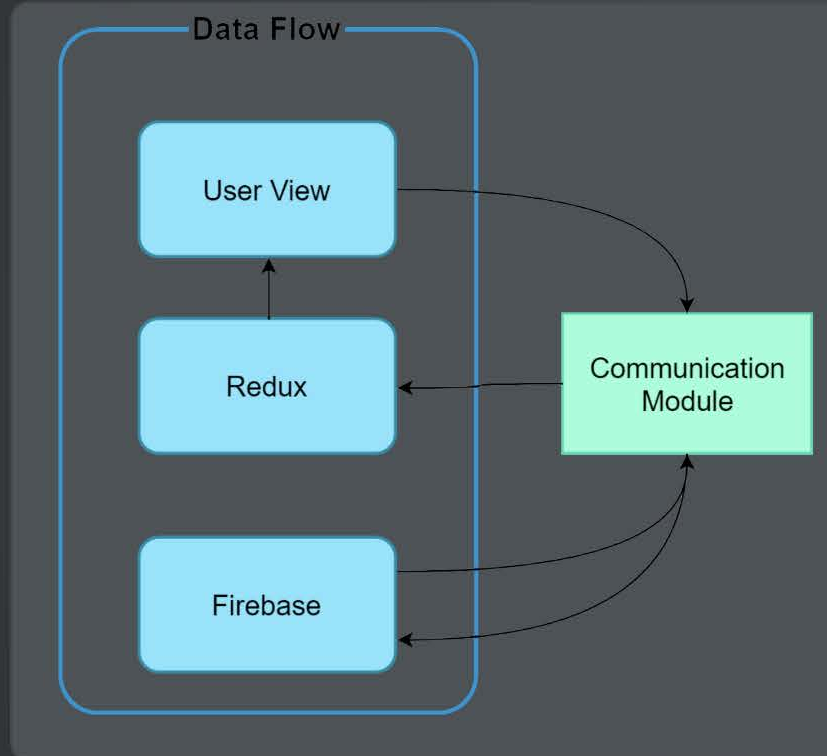
Features

Midterm DEMO

- Sorting by key
- Search by key
- Filtering
    - by key
    - by range
- Data pagination
- Data Visualization
    - Bar Chart
    - Pie Chart
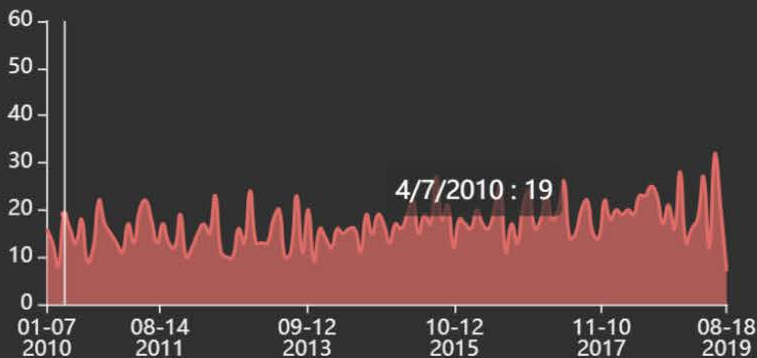   - Line Chart

TechStackDiagram

- React
  - Build frontend
  - Responsive Design
  - Web app
- ECharts.JS
  - Data visualization
- NodeJS
  - Middle-tier server
  - caching
- Firebase
  - Backend API

Project Presentation

Thanks for listening