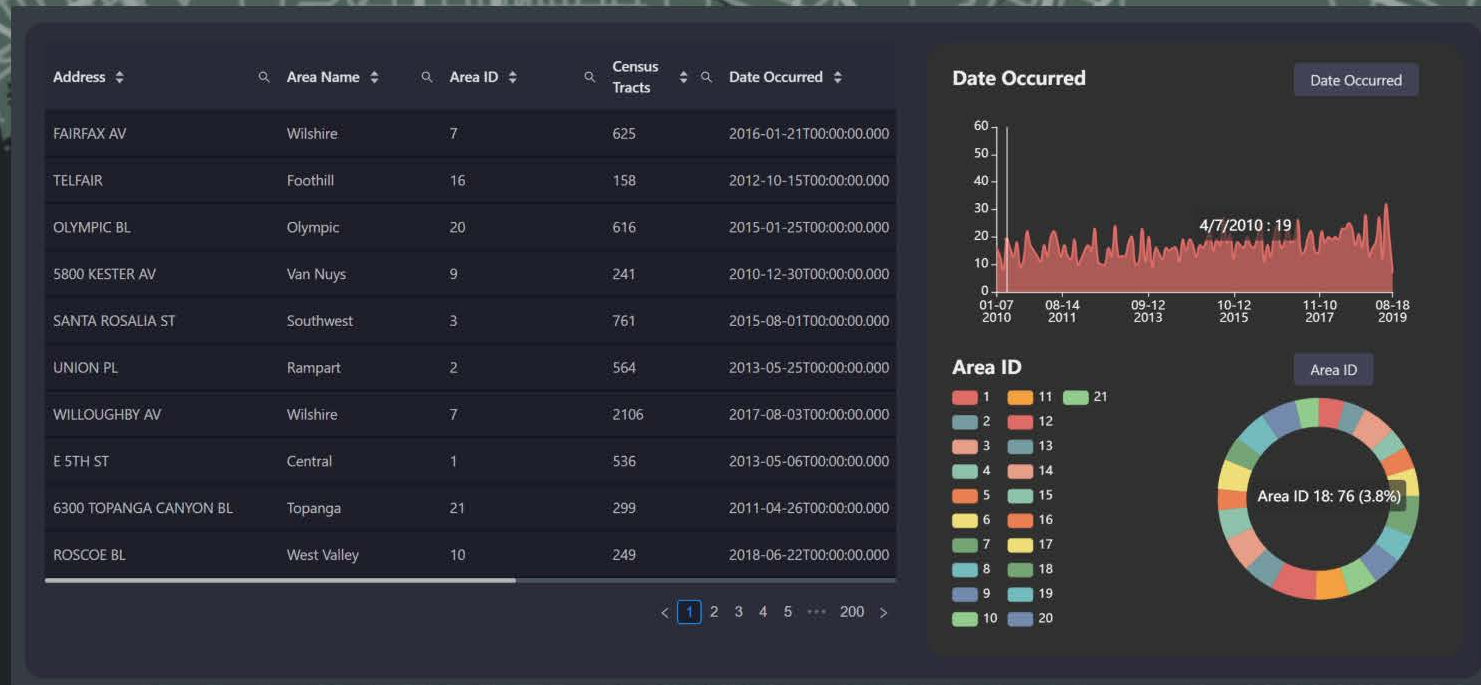


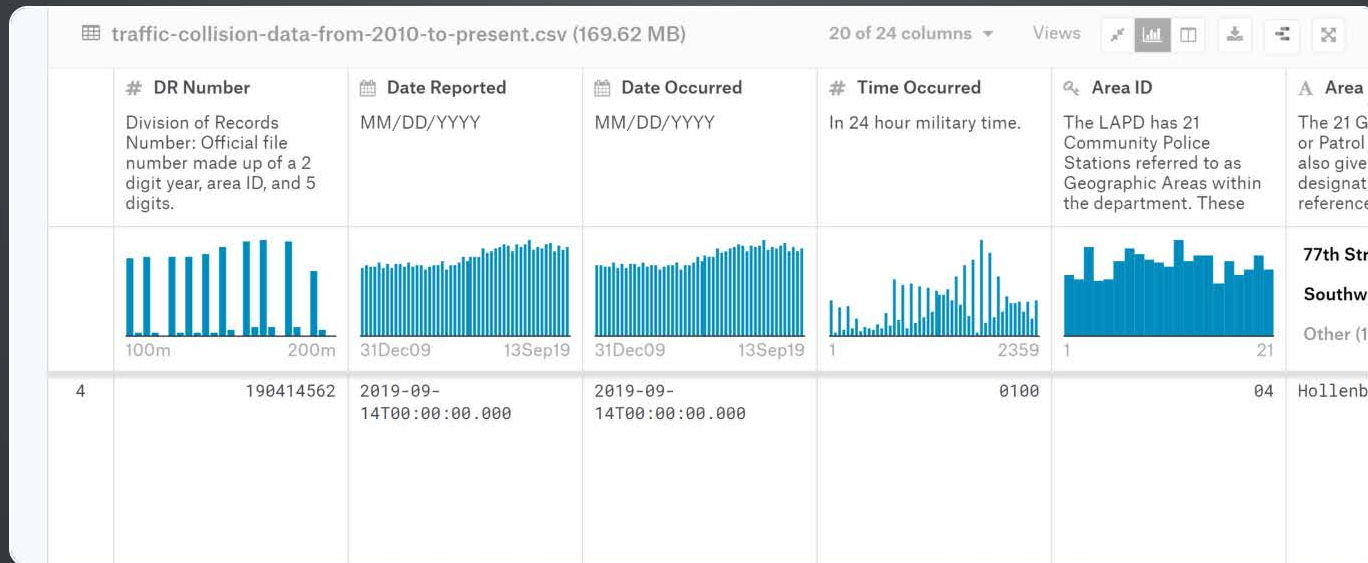
LA Traffic Collision Inspector



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.

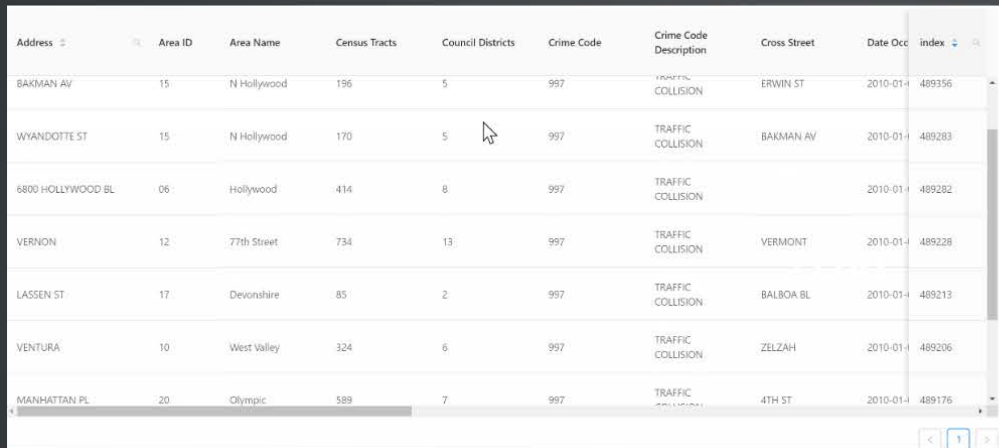


Los Angeles Traffic Collision Data

```
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



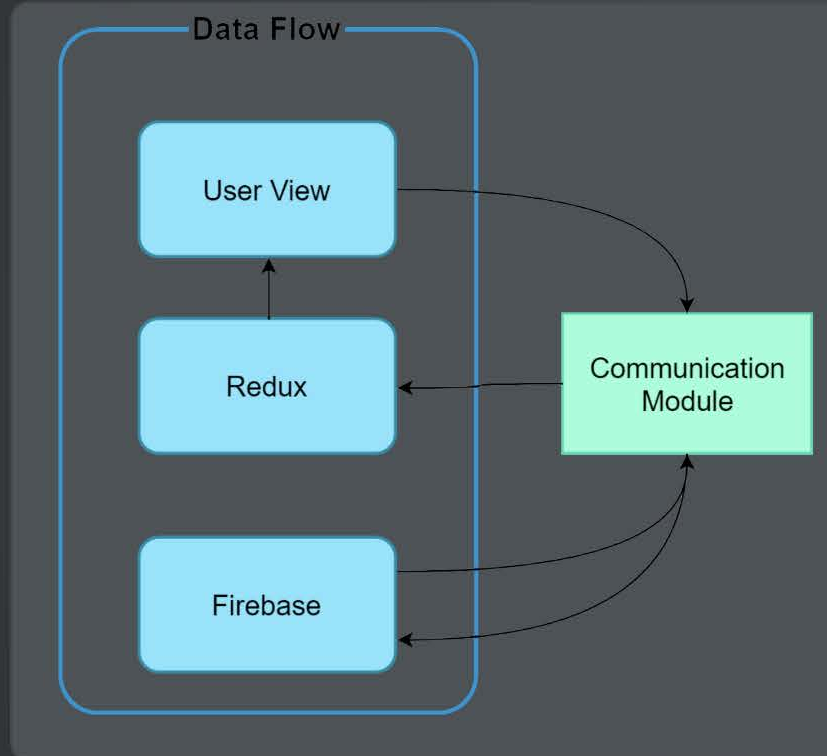
Address	Area ID	Area Name	Census Tracts	Council Districts	Crime Code	Crime Code Description	Cross Street	Date Occ	index
BAKMAN AV	15	N Hollywood	196	5	997	TRAFFIC COLLISION	ERWIN ST	2010-01-	489156
WYANDOTTE ST	15	N Hollywood	170	5	997	TRAFFIC COLLISION	BAKMAN AV	2010-01-	489283
6800 HOLLYWOOD BL	06	Hollywood	414	8	997	TRAFFIC COLLISION		2010-01-	489282
VERNON	12	77th Street	734	13	997	TRAFFIC COLLISION	VERMONT	2010-01-	489228
LASSEN ST	17	Devonshire	85	2	997	TRAFFIC COLLISION	BALBOA BL	2010-01-	489213
VENTURA	10	West Valley	324	6	997	TRAFFIC COLLISION	ZELZAH	2010-01-	489206
MANHATTAN PL	20	Olympic	589	7	997	TRAFFIC COLLISION	4TH ST	2010-01-	489176

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

Midterm DEMO



TechStackDiagram



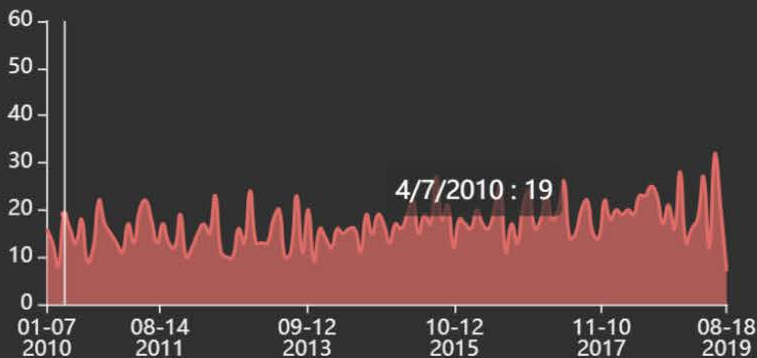
- React
 - Build frontend
 - Responsive Design
 - Web app
- ECharts.JS
 - Data visualization
- NodeJS
 - Middle-tier server
 - caching
- Firebase
 - Backend API



Address	Area Name	Area ID	Census Tracts	Date Occurred
FAIRFAX AV	Wilshire	7	625	2016-01-21T00:00:00.000
TELFAIR	Foothill	16	158	2012-10-15T00:00:00.000
OLYMPIC BL	Olympic	20	616	2015-01-25T00:00:00.000
5800 KESTER AV	Van Nuys	9	241	2010-12-30T00:00:00.000
SANTA ROSALIA ST	Southwest	3	761	2015-08-01T00:00:00.000
UNION PL	Rampart	2	564	2013-05-25T00:00:00.000
WILLOUGHBY AV	Wilshire	7	2106	2017-08-03T00:00:00.000
E 5TH ST	Central	1	536	2013-05-06T00:00:00.000
6300 TOPANGA CANYON BL	Topanga	21	299	2011-04-26T00:00:00.000
ROSCOE BL	West Valley	10	249	2018-06-22T00:00:00.000

Project Presentation

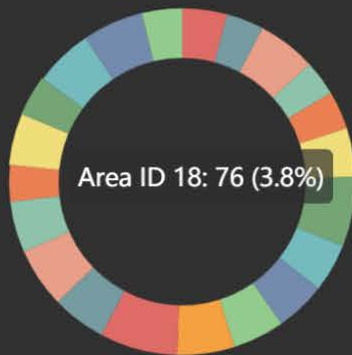
Date Occurred



Area ID



Area ID



Thanks for listening

