REPORT FOR PROJECT - MONTH DECEMBER (IEEE WIE)

TEAM: Ananya Ghosh, Chitteswari, Sanskriti, Doyel

1. Our Roles

Game database Website using Angular and Public API:

- Ananya made the major part of the project. Designing, coding the complete angular app.
- Sanskriti helped in API Part of the project.
- Chitteswari helped in SCSS coding.

TODO list app with curd operation using react typescript:

- Chitteswari handled the major part including CRUD Operation and typescript logic.
- Ananya contributed to the CRUD operation logic.
- Doyel helped in typescript functions and logics.

ML and NLP based Sentiment Analysis of Twitter:

. Doyel did the part where she displayed the bar charts for the top 10 negative hashtags in the twitter data and the top 10 positive hashtags in the twitter data. She also trained the model using Logistic Regression and found the accuracy score to show how many tweets were predicted correctly using this model.

. Sanskriti did the part where she did the loading of dataset, then preprocessing of dataset which included removing patterns in input text such as twitter handles, special characters, short words and punctuations. This was followed by tokenizing and stemming of tweets. She also did the visualization of frequently occurring positive and negative words in tweets to get a deeper insight of the dataset.

- Ananya made some parts with them to learn the concepts.

2. What you learned while building the project?

- Angular
- Typescript
- React
- API handling
- ML and NLP basics for sentiment analysis
- SCSS
- CRUD operation

3.Did you take any courses while working on your project?

No, we preferred youtube tutorials and a few other tutorials.

4. The libraries installed for the project.

- Angular CLI
- React
- Pandas
- Numpy
- Matplotlib.pyplot
- Seaborn
- Regular Expression
- String
- Natural language processing toolkit

- Warnings
- API Use- https://rapidapi.com/accujazz/api/rawg-video-games-database/details

5.Also explain the workflow of the project

Game database Website using Angular and Public API:

The webapp is built using angular and typescript. It is a database for video games and the game data comes from a public API. There is also a sort option available as well. Each game info and screenshots and videos are also the public rating from the API.

ToDo list app:

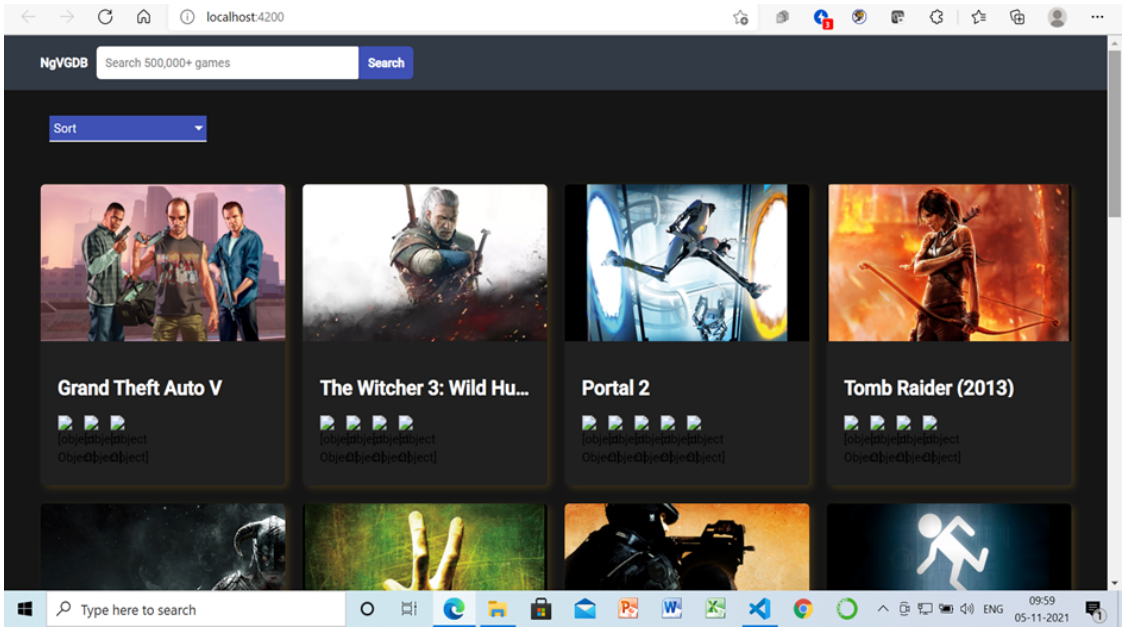
Built with Reactjs and Typescript. It has all add, delete, update, features required in todolist app.

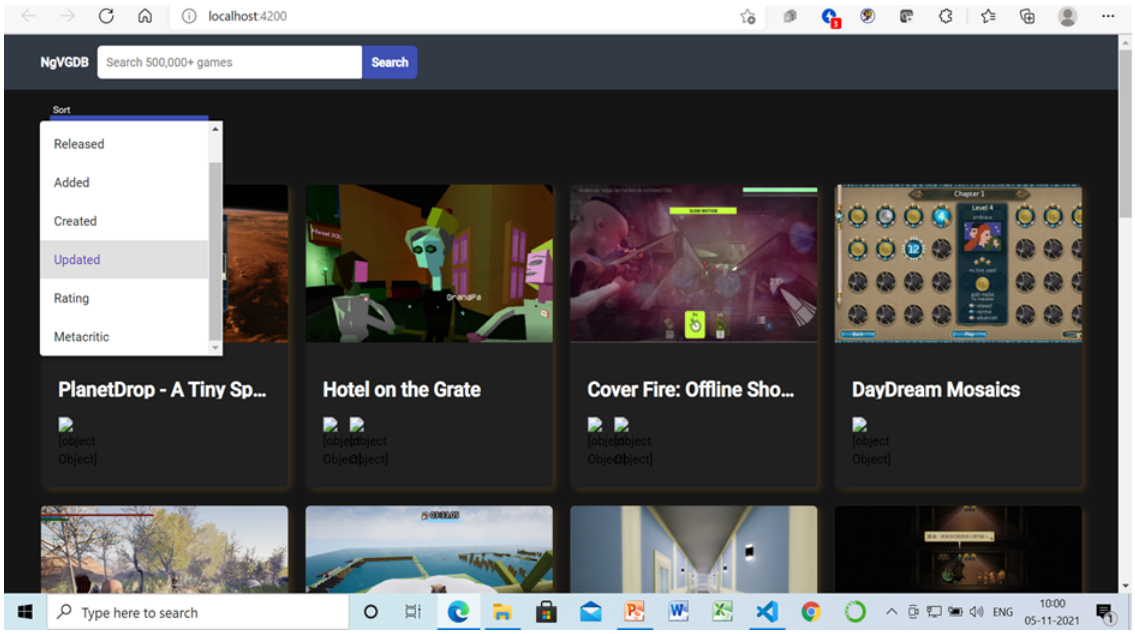
Sentiment Analysis of Twitter:

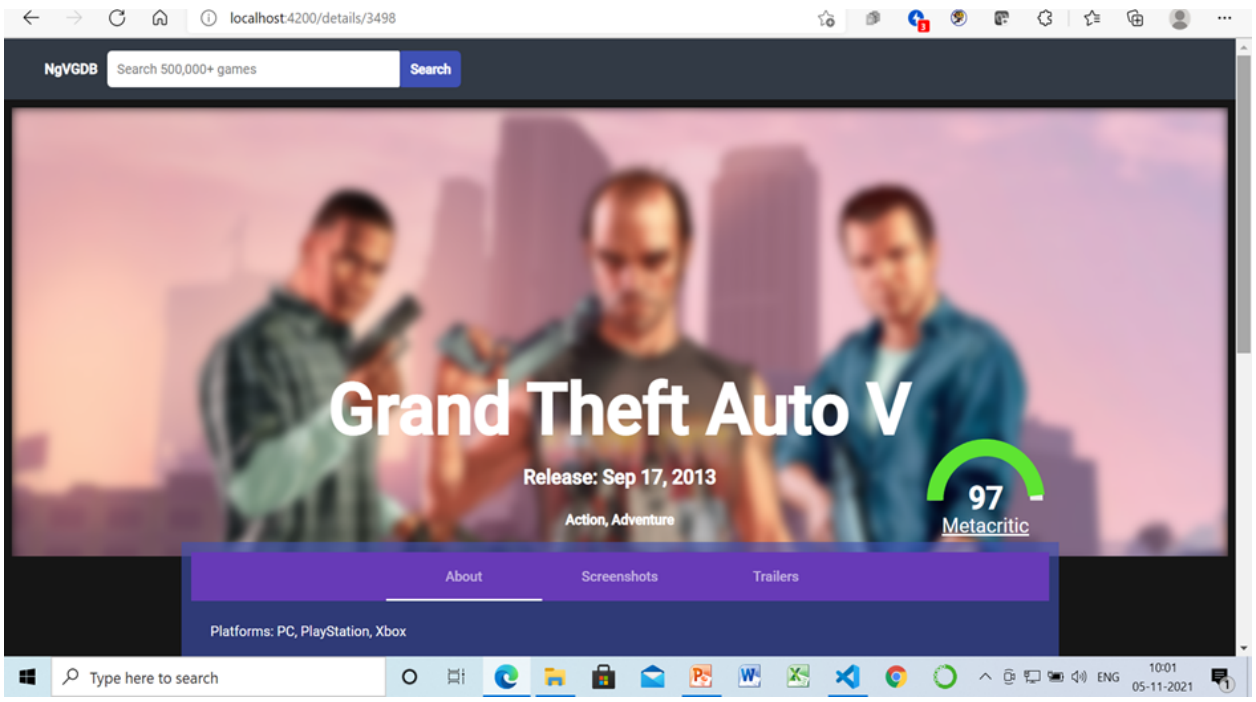
This was built using python and we did it on a jupyter notebook. First we had to import the necessary modules and load the twitter dataset. Then we preprocessed the data and displayed the frequent positive/negative words using bar charts and word clouds. Then we trained the model using Logistic Regression.

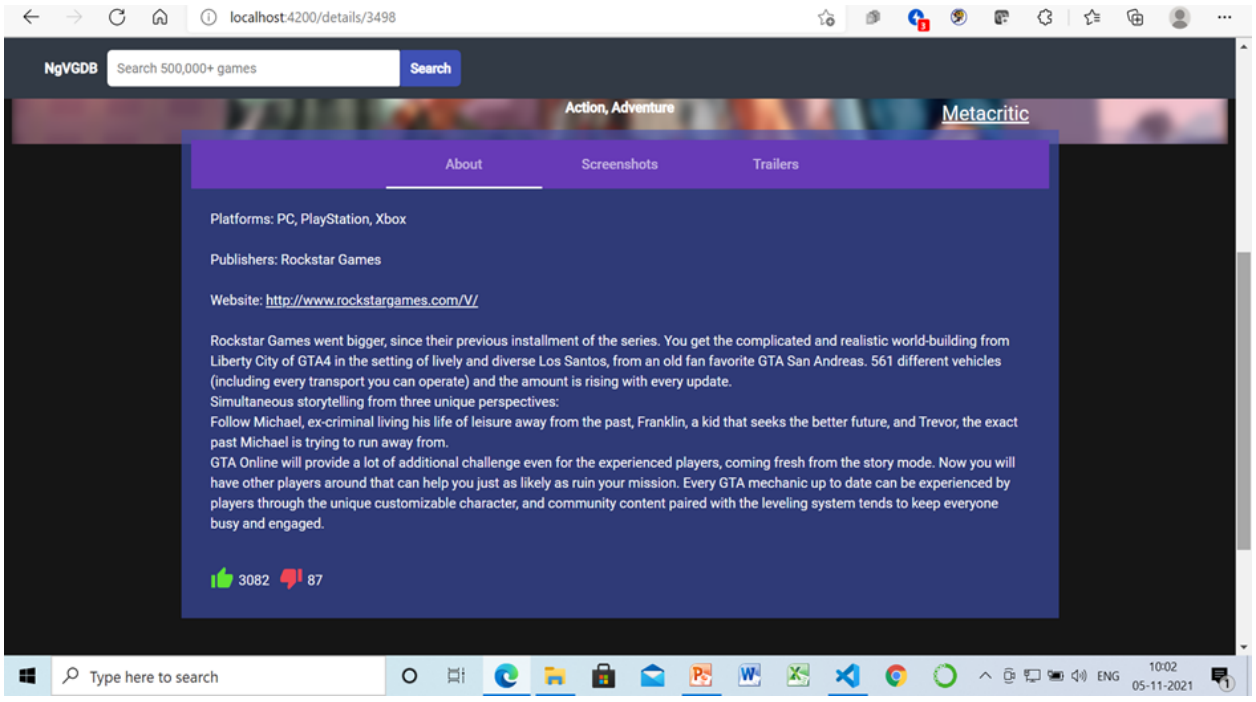
6. Screen shots

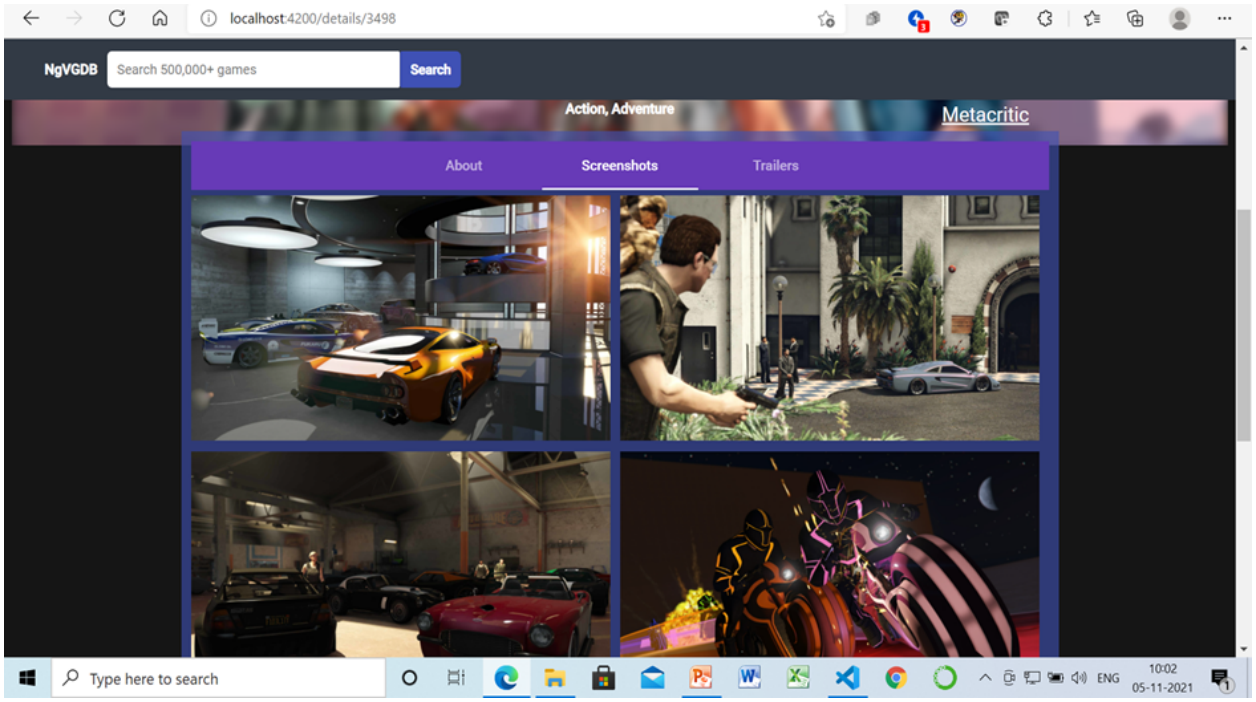
Game database Website using Angular and Public API:






localhost:4200/details/3498
NgVGDB
Search 500,000+ games
Search
Grand Theft Auto V
Release: Sep 17, 2013
Action, Adventure
97
Metacritic
About
Screenshots
Trailers
Platforms: PC, PlayStation, Xbox
Type here to search
ENG
10:01
05-11-2021


localhost:4200/details/3498
NgVGDB
Search 500,000+ games
Search
Action, Adventure
Metacritic
About
Screenshots
Trailers
Platforms: PC, PlayStation, Xbox
Publishers: Rockstar Games
Website: http://www.rockstargames.com/V/
Rockstar Games went bigger, since their previous installment of the series. You get the complicated and realistic world-building from Liberty City of GTA4 in the setting of lively and diverse Los Santos, from an old fan favorite GTA San Andreas. 561 different vehicles (including every transport you can operate) and the amount is rising with every update.
Simultaneous storytelling from three unique perspectives:
Follow Michael, ex-criminal living his life of leisure away from the past, Franklin, a kid that seeks the better future, and Trevor, the exact past Michael is trying to run away from.
GTA Online will provide a lot of additional challenge even for the experienced players, coming fresh from the story mode. Now you will have other players around that can help you just as likely as ruin your mission. Every GTA mechanic up to date can be experienced by players through the unique customizable character, and community content paired with the leveling system tends to keep everyone busy and engaged.
3082
87
Type here to search
ENG
10:02
05-11-2021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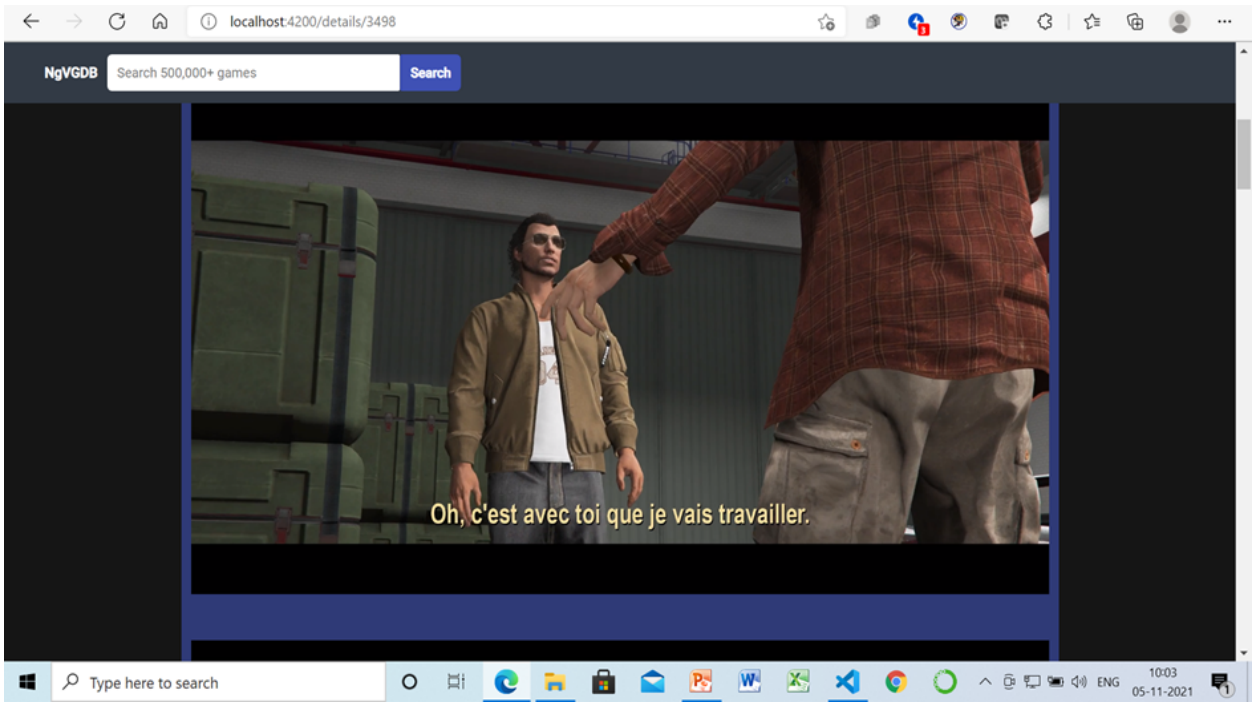
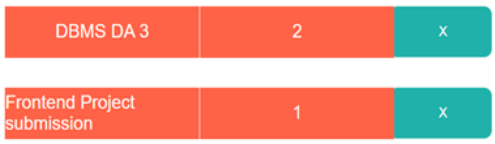
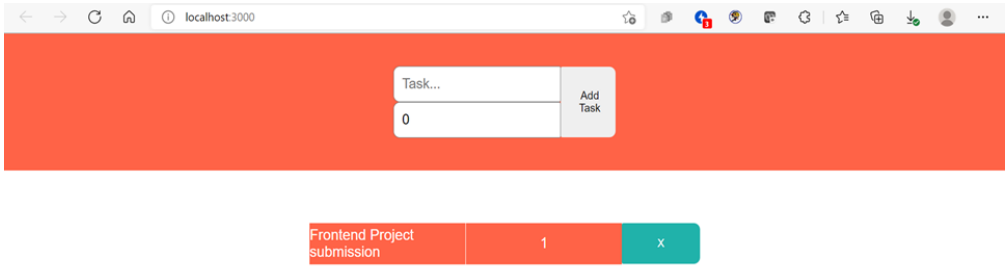

localhost:4200/details/3498
NgVGDB
Search 500,000+ games
Search
Oh, c'est avec toi que je vais travailler.
Type here to search
ENG
10:03
05-11-2021

Todolist App:

Add Task



Delete Task



Sentiment Analysis of Twitter:

Original dataset

Out[3]:

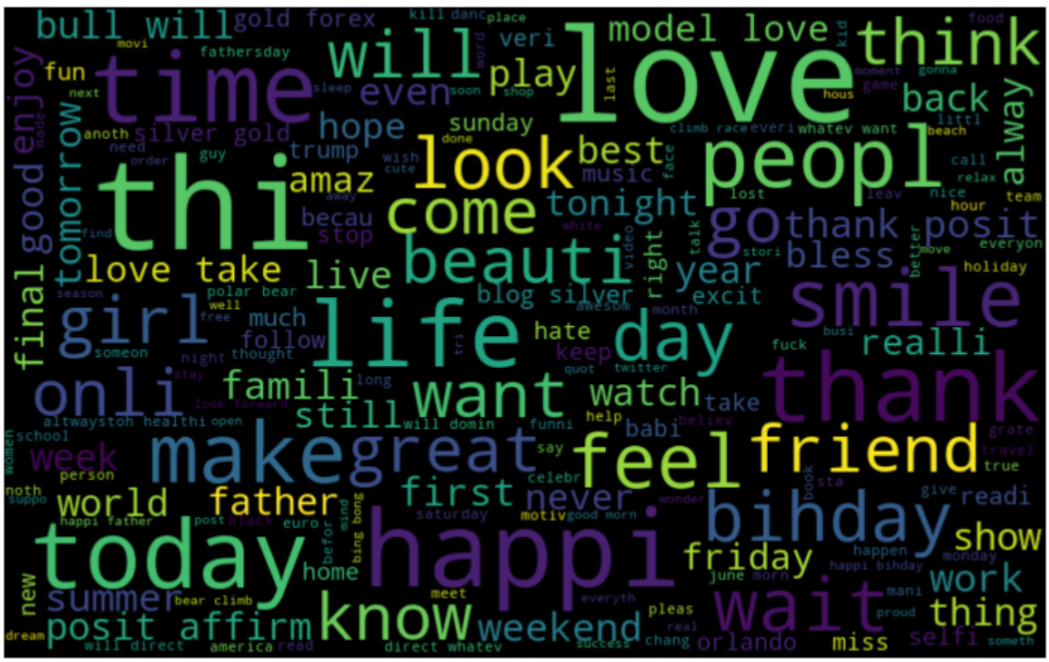
	id	label	tweet
0	1	0	@user when a father is dysfunctional and is s...
1	2	0	@user @user thanks for #lyft credit i can't us...
2	3	0	bihday your majesty
3	4	0	#model i love u take with u all the time in ...
4	5	0	factsguide: society now #motivation
5	6	0	[2/2] huge fan fare and big talking before the...
6	7	0	@user camping tomorrow @user @user @user @use...
7	8	0	the next school year is the year for exams.ðŸ˜...
8	9	0	we won!!! love the land!!! #allin #cavs #champ...
9	10	0	@user @user welcome here ! i'm it's so #gr...

Dataset after preprocessing

Out[11]:

	id	label	tweet	clean_tweet
0	1	0	@user when a father is dysfunctional and is s...	when father dysfunct selfish drag kid into dys...
1	2	0	@user @user thanks for #lyft credit i can't us...	thank #lyft credit caus they offer wheelchair ...
2	3	0	bihday your majesty	bihday your majesti
3	4	0	#model i love u take with u all the time in ...	#model love take with time
4	5	0	factsguide: society now #motivation	factsguid societi #motiv
5	6	0	[2/2] huge fan fare and big talking before the...	huge fare talk befor they leav chao disput whe...
6	7	0	@user camping tomorrow @user @user @user @use...	camp tomorrow danni
7	8	0	the next school year is the year for exams.ðŸ˜...	next school year year exam think about that #s...
8	9	0	we won!!! love the land!!! #allin #cavs #champ...	love land #allin #cav #champion #cleveland #cl...
9	10	0	@user @user welcome here ! i'm it's so #gr...	welcom here

Word cloud for visualization



Bar chart visualization