TWITTER DATA VISUALIZATION

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ABSTRACT

- Visualization of trending hashtags across the globe
- Tweets and their corresponding geo locations are extracted.
- Mapped into an map interface in the mobile application

INTRODUCTION

- Extracting Trending topics.
- Tweepy module.
- Firebase database.
- React Native.

PROBLEM STATEMENT

• The exponential growth in the volume, velocity and variability of social media data prevents the people from fully utilizing the data where in Visual Analytics comes into picture to understand large scale structured and unstructured social media data. In this project we will be dealing the current ongoing issues and popular trends to analyze and visualize their outcome in a map interface.

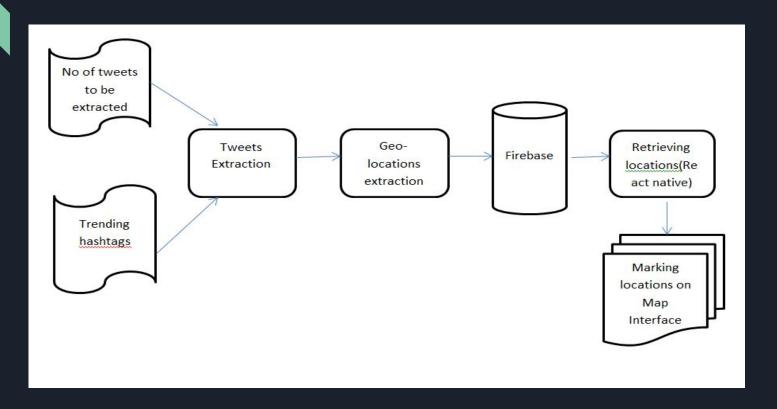
ADVANTAGES OF VISUALIZATION

- Better Understanding
- Rapid Identification
- Predictive Analysis
- Customized Data Visualization
- Easy Comprehension of data

SOFTWARE AND HARDWARE REQUIREMENTS

Operating System	Windows 7 or higher
Processor	Intel® Core™ i3
Environment	Python (3.4) React Native (0.57) Node JS Android Studio
Disk Space	1 GB or more

SYSTEM DESIGN



IMPLEMENTATION

Functions used:

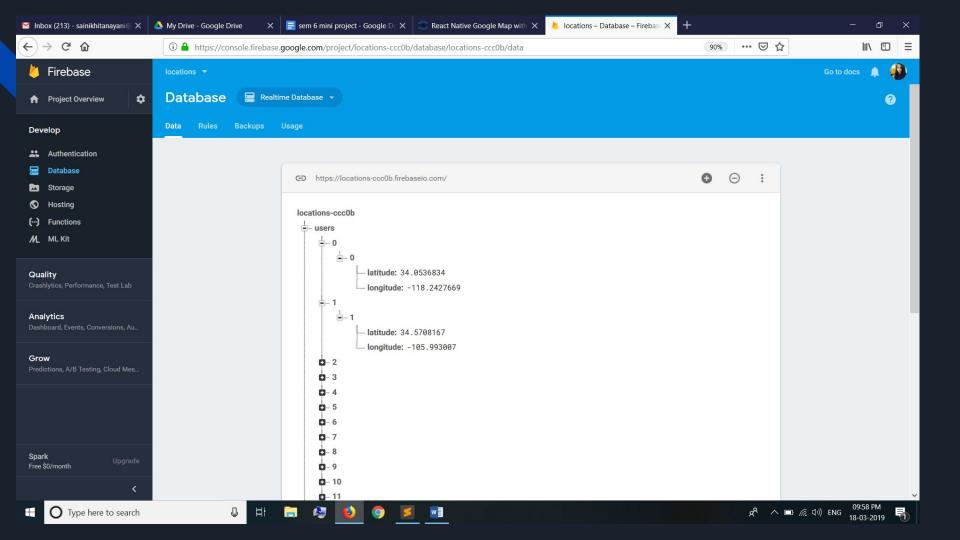
- tweepy.OAuthHandler(consumer_key, consumer_secret)
- auth.set_access_token(access_token, access_token_secret)

function

- tweepy.API(auth)
- geopy.geocoders.Nominatim()
- geolocator.geocode(tweet.user.location)
- tweepy.Cursor(api.search, q=query).items()
- credentials.Certificate('key.json')
- firebase.database().ref(node).once('value', (snapshot){..})

Components used:

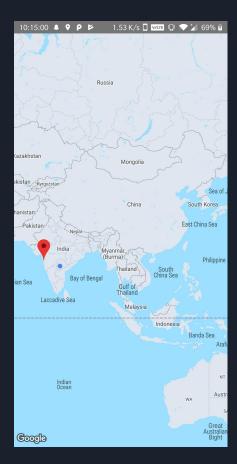
- <MapView>
- <Marker>



RESULTS







CONCLUSION

- Trends Extracted.
- Visualization of data accomplished.
- World wide Trends analyzed and visualized.

FUTURE SCOPE

- 3d globe visualization.
- Dynamic hashtags collection.
- Ability to view co-responding issue based on map interface.
- To Provide Trending topics analysis so that users can choose directly.

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