# JAVA AWT, SWING BASED- TWITTER DATABASE MANAGEMENT& SIMULATION - SQL CONNECTIVITY USING JDBC

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Report

Submitted in partial fulfilment of the

Requirements for the award of the Degree of

# **BACHELOR OF ENGINEERING**

IN

# **INFORMATION TECHNOLOGY**

BY

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# **BONAFIDE CERTIFICATE**

This is to certify that this project report titled "Twitter Database Management in a region" is the bonafide project work of Mr. Thodupunuri Badrinath bearing hallticket number 1602-18-737-066, who carried out the mini project work under my supervision. Certified further that, to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on as earlier occasion or any other candidate.

Signature

External Examiner

Signature of the Examiner

**B.LEELAVATHY** 

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Department of Information Technology

# TWITTER

# DATA MANAGEMENT

USERS REGION

ROLL NO:1602-18-737-066

Name: Thodupunuri Badrinath

# ABSTRACT:

In social media, information is present in large amount. Extracting information from social media gives us several usage in various fields. In the field of biomedical and healthcare, extracting information from social media is providing number of benefits such as knowledge about the latest technology, updates of current situation in medical field etc.

Twitter is one of the social media which allows the user post tweets of limited number of characters and share the tweet to their followers. Twitter allows application developer to access the tweets for their purpose. Based on the analysis of comments and reply's people can jump into a conclusion and find a solution to a problem based on user's feedback.

# **INTRODUCTION:**

# REQUIREMENTS ANALYSIS:

LIST OF TABLES:

>USERS

>POSTS

>TW EET

>HAS

>FOLLOWING

>HAS\_A

>RESPONSE

List of attributes with their domain types:

# **USERS:**

USER\_NAME : VARCHAR2(10)

USER\_ID :VARCHAR2(10)

MOB\_NO : NUMBER(10)

VERIFIED\_FLAG: CHAR(1)

EMAIL\_ID : VARCHAR2(25)

PASSWORD : VARCHAR2(5)

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

#### TWEET:

MESSAGE : VARCHAR2(60)

POLARITY :CHAR(1)

LIKES : NUMBER(4)

TWEET\_ID :VARCHAR2(10)

CATEGORY: VARCHAR2(10)

# **USERS\_TWEET**:

USER\_ID :VARCHAR2(10)

TWEET\_ID :VARCHAR2(10)

P\_DATE : DATE

# **FOLLOWING:**

F\_USER\_ID : VARCHAR2(10)

# **USERS\_FOLLOWING:**

USER\_ID : VARCHAR2(10)

F\_USER\_ID :VARCHAR2(10)

SINCE : DATE

# **RESPONSE:**

R\_USER\_ID :VARCHAR2(10)

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

REPLIED\_DATE :DATE

CATEGORY : VARCHAR2(6)

MESSAGE :VARCHAR2(100)

MESSAGE\_ID :VARCHAR2(10)

# TWEET\_RESPONSE:

TWEET\_ID :VARCHAR2(10)

MESSAGE\_ID :VARCHAR2(10)

R\_POLARITY :CHAR(1)

# <u>ARCHITECTURE AND TECHNOLOGY USED</u>

#### **SOFTWARE USED:**

Java Eclipse, Oracle 11g Database, Java SE version 7, SQL\*Plus.

#### Java AWT:

**Java AWT** (Abstract Window Toolkit) is an API to develop GUI or window-based applications in java.

Java AWT components are platform-dependent i.e. components are displayed according to the view of operating system. AWT is heavyweight i.e. its components are using the resources of OS.

The java.awt package provides classes for AWT API such as TextField, Label, TextArea, RadioButton, CheckBox, Choice, List etc.

# **SQL**:

Structure Query Language(SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's **Relational** model of database. Today almost all RDBMS (MySQL, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

# **Java-SQL Connectivity using JDBC:**

**Java Database Connectivity (JDBC)** is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Javabased data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

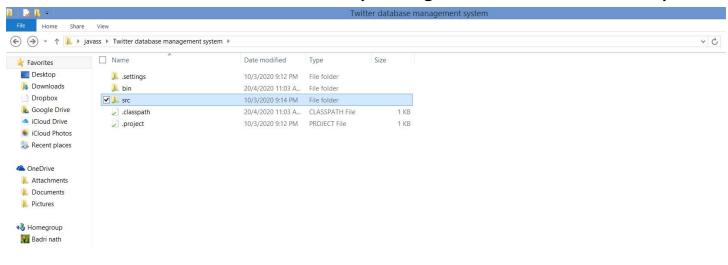
Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

The connection to the database can be performed using Java programming (JDBC API) as:

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

## **FOLDER STRUCTURE:**

This project contains a folder named src in which it consists of one folder and inside the folder there are few codes. By this we can navigate easily to reach code and we can make many changes as we can want easily.



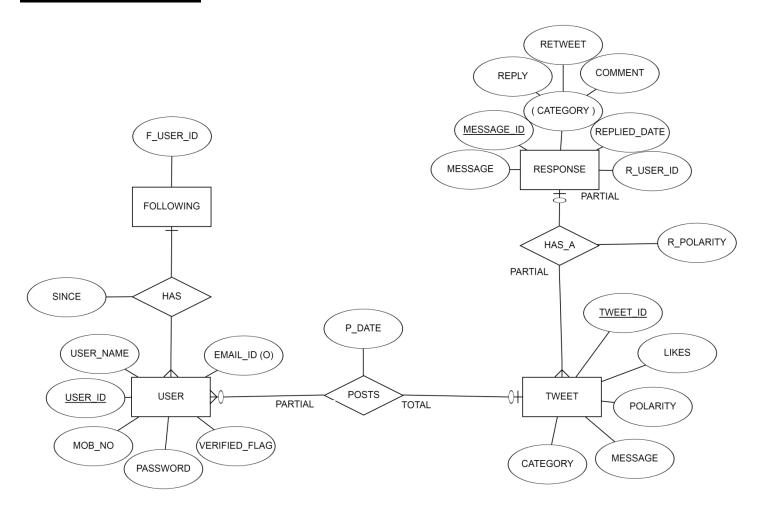
Follow up the below link in order to have a knowledge of how system is being implemented.

https://github.com/Badrinath2428/DBMS-PROJECT/blob/master/Twitter%20database% 20management%20system.zip

# **TESTING**

The program executes three basic operations those are insert update and delete on 8 different tables. Along with this, it also has an output column which gives information about how many rows have been edited. Errors syntactical or exceptional will be shown if occurred.

# ER DIAGRAM:



# **Mapping Cardinalities and Participation Constraints:**

>One user can post many posts, so one to many cardinality suit posts.

> One user can have many followers, so one to many cardinality suit has.

>A tweet can have many responses, so one to many cardinality suit has\_a.

### DDL AND DML COMMANDS:

SQL> create table Users( 2 user name varchar2(10), 3 user id number(5) primary key, 4 mob no number(10,0), 5 verified\_flag char(1) check (verified\_flag in ('Y','N')), 6 email id varchar2(10), 7 password varchar2(5)); Table created. SQL> alter table Users modify(user id varchar2(10)); Table altered. SQL> desc users; Name Null? Type -----**USER NAME** VARCHAR2(10) **NOT NULL** VARCHAR2(10) USER ID MOB NO NUMBER(10) VERIFIED\_FLAG CHAR(1) VARCHAR2(10) EMAIL ID VARCHAR2(5) **PASSWORD** 

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

SQL> alter table users modify(email\_id varchar2(25));

Table altered.

SQL> desc users

Name	Null?	Type

USER\_NAME VARCHAR2(10)

USER\_ID NOT NULL VARCHAR2(10)

MOB\_NO NUMBER(10)

VERIFIED\_FLAG CHAR(1)

EMAIL\_ID VARCHAR2(25)

PASSWORD VARCHAR2(5)

SQL> insert into users

values('&user\_name','&user\_id',&mob\_no,'&verified\_flag','&email\_id','&password');

Enter value for user name: Badrinath

Enter value for user\_id: Badri2428

Enter value for mob\_no: 9381756470

Enter value for verified flag: Y

Enter value for email\_id: badrinath@gmail.com

Enter value for password: Badri2428

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

old 1: insert into users

values('&user\_name','&user\_id',&mob\_no,'&verified\_flag','&email\_id','&password ')

new 1: insert into users

values('Badrinath', 'Badri2428', 9381756470, 'Y', 'badrinath@gmail.com', 'Badri2428')

1 row created.

SQL>/

Enter value for user\_name: Abhiraj

Enter value for user\_id: Abhi5007

Enter value for mob\_no: 9949939007

Enter value for verified flag: Y

Enter value for email\_id: dusariabhiraj@gmail.com

Enter value for password: abcd1234@

old 1: insert into users

values('&user\_name','&user\_id',&mob\_no,'&verified\_flag','&email\_id','&password ')

new 1: insert into users

values('Abhiraj','Abhi5007',9949939007,'Y','dusariabhiraj@gmail.com','abcd1234@')

1 row created.

SQL> alter table users modify(user name varchar2(10) not null);

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

Table altered.

SQL> alter table users modify(mob\_no number(10) not null);

Table altered.

SQL> desc users;

Name	Null?	Туре	
USER_NAME	NOT NULL	VARCHAR2(10)	
USER_ID	NOT NULL	VARCHAR2(10)	
MOB_NO	NOT NULL	NUMBER(10)	
VERIFIED_FLAG		CHAR(1)	
EMAIL_ID		VARCHAR2(25)	
PASSWORD		VARCHAR2(10)	

SQL> insert into users

values('&user\_name','&user\_id','&mob\_no','&verified\_flag','&email\_id','&passwor
d');

Enter value for user\_name: Yash

Enter value for user\_id: Yash6960

Enter value for mob no: 8686819973

Enter value for verified\_flag: N

Enter value for email\_id: yasho6960@gmail.com

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for password: 6960118

old 1: insert into users

values('&user\_name','&user\_id','&mob\_no','&verified\_flag','&email\_id','&passwor d')

new 1: insert into users

values('Yash','Yash6960','8686819973','N','yasho6960@gmail.com','6960118')

1 row created.

SQL> /

Enter value for user\_name: pranav

Enter value for user id: Prana0680

Enter value for mob no: 9515789639

Enter value for verified flag: N

Enter value for email\_id: pranav23@gmail.com

Enter value for password: pranav23

old 1: insert into users

values('&user\_name','&user\_id','&mob\_no','&verified\_flag','&email\_id','&passwor d')

new 1: insert into users

values('pranav','Prana0680','9515789639','N','pranav23@gmail.com','pranav23')

1 row created.

SQL>/

Enter value for user\_name: Varun

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for user\_id: bel007

Enter value for mob\_no: 8179700761

Enter value for verified\_flag: Y

Enter value for email\_id:

Enter value for password: varun115

old 1: insert into users

values('&user\_name','&user\_id','&mob\_no','&verified\_flag','&email\_id','&passwor d')

new 1: insert into users values('Varun','bel007','8179700761','Y','','varun115')

1 row created.

SQL> select \* from users;

USER_NAME	USER_ID	MOB_NO	V	EMAIL_ID P	ASSWORD
			-		
Badrinath	Badri2428	9381756470	Υ	badrinath@gmail.com	Badri2428
Abhiraj	Abhi5007	9949939007	Υc	dusariabhiraj@gmail.com	abcd1234@
Yash	Yash6960	8686819973	N	yasho6960@gmail.com	6960118
pranav	Prana0680	9515789639	N	pranav23@gmail.com	pranav23

```
SQL> create table tweet
 2 (
 3 message varchar2(60),
 4 polarity char(1) check (polarity in ('P','N')),
 5 likes number(4,0),
 6 tweet_id varchar2(10),
 7 twote_date date,
 8 category varchar2(10));
Table created.
SQL> alter table tweet add(primary key(tweet_id));
Table altered.
SQL> alter table tweet drop(twote_date);
```

ROLL NO:1602-18-737-066 Name: Thodupunuri Badrinath

Table altered.

#### SQL> desc tweet;

Name	Null?	Type

VARCHAR2(60) MESSAGE

CHAR(1) **POLARITY** 

LIKES NUMBER(4)

TWEET ID **NOT NULL** VARCHAR2(10)

VARCHAR2(10) **CATEGORY** 

SQL> insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category');

Enter value for message: A new dawn, fresh vigour and renewed hope in Assam!.

Enter value for polarity: P

Enter value for likes: 4024

Enter value for tweet id: TY1456278

Enter value for category: Social

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet id','&category')

new 1: insert into tweet values('A new dawn, fresh vigour and renewed hope in Assam!.','P',4024,'TY1456278','Social')

1 row created.

SQL>/

Enter value for message: Strolling in sidney.

Enter value for polarity: P

Enter value for likes: 1234

Enter value for tweet\_id: Tx129674

Enter value for category: Fun

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category')

new 1: insert into tweet values('Strolling in sidney.','P',1234,'Tx129674','Fun')

1 row created.

SQL> insert into tweet values('&message','&polarity',&likes,'&tweet\_id','&category');

Enter value for message: Sending my best wishes to the Indian U19 Cricket team ahead of their world cup final.

Enter value for polarity: P

Enter value for likes: 9876

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for tweet id: QW189528

Enter value for category: Sports

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category')

new 1: insert into tweet values ('Sending my best wishes to the Indian U19 Cricket team ahead of their world cup

final.','P',9876,'QW189528','Sports')

1 row created.

SQL>/

Enter value for message: Stronger together. Happy Republic Day to all of us.

Enter value for polarity: P

Enter value for likes: 9123

Enter value for tweet id: QP196328

Enter value for category: Social

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category')

new 1: insert into tweet values('Stronger together. Happy Republic Day to all of us.','P',9123,'QP196328','Social')

1 row created.

# SQL>/

Enter value for message: In such a massive country like India, only 2200 people have declared their annual income over 1cr.

Enter value for polarity: N

Enter value for likes: 1450

Enter value for tweet\_id: AS190634

Enter value for category: Social

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category')

new 1: insert into tweet values('In such a massive country like India, only 2200 people have declared their annual income

over 1cr.','N',1450,'AS190634','Social')

# SQL>/

Enter value for message: The ganga is at the heart of our civilisation. I am glad you spent time in varanasi @Yasho.

Enter value for polarity: P

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for likes: 7803

Enter value for tweet id: ZX678310

Enter value for category: Fun

old 1: insert into tweet

values('&message','&polarity',&likes,'&tweet\_id','&category')

new 1: insert into tweet values ('The ganga is at the heart of our civilisation. I am glad you spent time in varanasi

@Yasho.','P',7803,'ZX678310','Fun')

1 row created.

SQL> select message, tweet\_id from tweet;

MESSAGE	TWEET_ID

------

A new dawn, fresh vigour and renewed hope in Assam!. TY1456278

Strolling in sidney. Tx129674

Sending my best wishes to the Indian U19 Cricket team QW189528

ahead of their world cup final.

Stronger together. Happy Republic Day to all of us. QP196328

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

In such a massive country like India, only 2200 people

AS190634

have declared their annual income over 1cr

The ganga is at the heart of our civilisation. I am

ZX678310

glad you spent time in varanasi @Yasho6960.

6 rows selected.

SQL> select tweet\_id,polarity,likes,category from tweet;

TWEET_ID	Р	LIKES	CATEGORY
	-		
TY1456278	Р	4024	Social
Tx129674	Р	1234	Fun
QW189528	Р	9876	Sports
QP196328	Р	9123	Social
AS190634	N	1450	Social
ZX678310	Р	7803	Fun
6 rows selected.			

SQL> create table posts(

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

2 user\_id varchar2(10) references users(user\_id),

3 tweet id varchar2(10) references tweet(tweet id),

4 p\_date date);

Table created.

SQL> insert into posts values('&user\_id','&tweet\_id', '&p\_date');

Enter value for user id: Badri2428

Enter value for tweet id: TY1456278

Enter value for p date: 22-JAN-2018

old 1: insert into posts values('&user id','&tweet id', '&p date')

new 1: insert into posts values('Badri2428','TY1456278', '22-JAN-2018')

1 row created.

SQL>/

Enter value for user\_id: Badri2428

Enter value for tweet\_id: ZX678310

Enter value for p\_date: 09-AUG-2010

old 1: insert into posts values('&user\_id','&tweet\_id', '&p\_date')

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

new 1: insert into posts values('Badri2428','ZX678310', '09-AUG-2010')

1 row created.

SQL>/

Enter value for user id: Yash6960

Enter value for tweet\_id: Tx129674

Enter value for p\_date: 24-DEC-2017

old 1: insert into posts values('&user\_id','&tweet\_id', '&p\_date')

new 1: insert into posts values('Yash6960','Tx129674', '24-DEC-2017')

1 row created.

SQL>/

Enter value for user id: Abhi5007

Enter value for tweet\_id: QW189528

Enter value for p date: 14-FEB-2018

old 1: insert into posts values('&user\_id','&tweet\_id', '&p\_date')

new 1: insert into posts values('Abhi5007','QW189528', '14-FEB-2018')

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

1 row created.

SQL>/

Enter value for user\_id: Prana0680

Enter value for tweet id: QP196328

Enter value for p date: 26-JAN-2020

old 1: insert into posts values('&user\_id','&tweet\_id', '&p\_date')

new 1: insert into posts values('Prana0680','QP196328', '26-JAN-2020')

1 row created.

SQL>/

Enter value for user\_id: bel007

Enter value for tweet\_id: AS190634

Enter value for p date: 22-JAN-2019

old 1: insert into posts values('&user\_id','&tweet\_id', '&p\_date')

new 1: insert into posts values('bel007','AS190634', '22-JAN-2019')

1 row created.

SQL> alter table posts add(primary key(user\_id,tweet\_id));

Table altered.

SQL> desc posts;

Name	Null?	Туре

USER\_ID NOT NULL VARCHAR2(10)

TWEET\_ID NOT NULL VARCHAR2(10)

P\_DATE DATE

SQL> select \* from posts;

USER_ID	TWEET_ID	P_DATE
Badri2428	TY1456278	22-JAN-18
Badri2428	ZX678310	09-AUG-10
Yash6960	Tx129674	24-DEC-17
Abhi5007	QW189528	14-FEB-18
Prana0680	QP196328	26-JAN-20
bel007	AS190634	22-JAN-19

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

6 rows selected.

SQL> create table following(

2 f\_user\_id references users(user\_id));

Table created.

SQL> desc following;

Name Null? Type

-----

F USER ID

VARCHAR2(10)

SQL> insert into following values('&f\_user\_id');

Enter value for f\_user\_id: Badri2428

old 1: insert into following values('&f\_user\_id')

new 1: insert into following values('Badri2428')

1 row created.

SQL>/

Enter value for f\_user\_id: Abhi5007

old 1: insert into following values('&f\_user\_id')

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

new 1: insert into following values('Abhi5007')

1 row created.

SQL>/

Enter value for f\_user\_id: Yash6960

old 1: insert into following values('&f\_user\_id')

new 1: insert into following values('Yash6960')

1 row created.

SQL>/

Enter value for f user id: Prana0680

old 1: insert into following values('&f\_user\_id')

new 1: insert into following values('Prana0680')

1 row created.

SQL>/

Enter value for f\_user\_id: bel007

# DBMS MINIPROJECT Title: TWITTER DATA old 1: insert i new 1: insert

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

old 1: insert into following values('&f\_user\_id')

new 1: insert into following values('bel007')

1 row created.

SQL> create table has(

2 user\_id varchar2(10),

3 f\_user\_id varchar2(10),

4 since date);

Table created.

SQL> alter table has add(foreign key(user id) references users);

Table altered.

SQL> desc has;

Name

Null?

Type

\_\_\_\_\_\_

USER\_ID

VARCHAR2(10)

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

F\_USER\_ID VARCHAR2(10)

SINCE DATE

SQL> insert into has values('&user\_id','&f\_user\_id','&since');

Enter value for user id: Badri2428

Enter value for f\_user\_id: bel007

Enter value for since: 12-JUL-2019

old 1: insert into has values('&user\_id','&f\_user\_id','&since')

new 1: insert into has values('Badri2428','bel007','12-JUL-2019')

1 row created.

SQL>/

Enter value for user\_id: Badri2428

Enter value for f\_user\_id: Yash6960

Enter value for since: 27-DEC-2016

old 1: insert into has values('&user id','&f user id','&since')

new 1: insert into has values('Badri2428','Yash6960','27-DEC-2016')

1 row created.

SQL>/

Enter value for user id: Abhi5007

Enter value for f\_user\_id: Badri2428

Enter value for since: 11-JAN-2001

old 1: insert into has values('&user\_id','&f\_user\_id','&since')

new 1: insert into has values('Abhi5007','Badri2428','11-JAN-2001')

1 row created.

SQL>/

Enter value for user\_id: Abhi5007

Enter value for f user id: Prana0680

Enter value for since: 12-NOV-2017

old 1: insert into has values('&user\_id','&f\_user\_id','&since')

new 1: insert into has values('Abhi5007','Prana0680','12-NOV-2017')

1 row created.

SQL>/

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

Enter value for user\_id: Yash6960

Enter value for f\_user\_id: Badri2428

Enter value for since: 17-FEB-2014

old 1: insert into has values('&user\_id','&f\_user\_id','&since')

new 1: insert into has values('Yash6960', 'Badri2428', '17-FEB-2014')

1 row created.

SQL>/

Enter value for user id: Prana0680

Enter value for f user id: Abhi5007

Enter value for since: 12-SEP-2019

old 1: insert into has values('&user id','&f user id','&since')

new 1: insert into has values('Prana0680','Abhi5007','12-SEP-2019')

1 row created.

SQL> select \* from has;

USER\_ID F\_USER\_ID SINCE

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

\_\_\_\_\_

Badri2428 bel007 12-JUL-19

Badri2428 Yash6960 27-DEC-16

Abhi5007 Badri2428 11-JAN-01

Abhi5007 Prana0680 12-NOV-17

Yash6960 Badri2428 17-FEB-14

Prana0680 Abhi5007 12-SEP-19

6 rows selected.

SQL> create table response

2 (

3 r\_user\_id varchar2(10) references users(user\_id),

4 replied\_date date,

5 category varchar2(6),

6 meassage varchar2(100),

7 message\_id varchar2(10));

Table created.

SQL> alter table response rename column meassage to message;

Table altered.

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

SQL> alter table response add(primary key(message id));

Table altered.

SQL> desc response;

Name	Null?	Type

-----

R\_USER\_ID VARCHAR2(10)

REPLIED DATE DATE

CATEGORY VARCHAR2(6)

MESSAGE VARCHAR2(100)

MESSAGE\_ID NOT NULL VARCHAR2(10)

SQL> insert into response

values('&r\_user\_id','&replied\_date','&category','&message','&message\_id');

Enter value for r\_user\_id: Prana0680

Enter value for replied date: 12-FEB-2020

Enter value for category: Reply

Enter value for message: Yeah its shocking.

Enter value for message\_id: QW12345

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

old 1: insert into response

values('&r\_user\_id','&replied\_date','&category','&message','&message\_id')

new 1: insert into response values('Prana0680','12-FEB-2020','Reply','Yeah its shocking.','QW12345')

1 row created.

SQL>/

Enter value for r\_user\_id: Yash6960

Enter value for replied date: 11-FEB-2020

Enter value for category: REPLY

Enter value for message: Yeah! It was awfull.

Enter value for message\_id: QN18756

old 1: insert into response

values('&r\_user\_id','&replied\_date','&category','&message','&message\_id')

new 1: insert into response values('Yash6960','11-FEB-2020','REPLY','Yeah! It was awfull.','QN18756')

1 row created.

SQL> select r\_user\_id,replied\_date,category,message\_id from response;

R\_USER\_ID REPLIED\_D CATEGO MESSAGE\_ID
----Prana0680 12-FEB-20 Reply QW12345

Yash6960 11-FEB-20 REPLY QN18756

SQL> select message, message\_id from response;

MESSAGE MESSAGE\_ID

Yeah its shocking QW12345

Yeah! It was awfull. QN18756

SQL> create table has\_a (

- 2 tweet\_id varchar2(10) references tweet(tweet\_id),
- 3 message\_id varchar2(10) references response(message\_id),
- 4 r polarity char(1));

Table created.

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

SQL> desc has\_a

Name Null? Type

-----

TWEET\_ID VARCHAR2(10)

MESSAGE\_ID VARCHAR2(10)

R\_POLARITY CHAR(1)

SQL> insert into has\_a values('&tweet\_id','&message\_id','&r\_polarity');

Enter value for tweet\_id: AS190634

Enter value for message\_id: QW12345

Enter value for r polarity: P

old 1: insert into has\_a values('&tweet\_id','&message\_id','&r\_polarity')

new 1: insert into has a values('AS190634','QW12345','P')

1 row created.

SQL>/

Enter value for tweet\_id: ZX678310

Enter value for message\_id: QN18756

Enter value for r\_polarity: P

Title: TWITTER DATA MANAGEMENT OF USERS IN A REGION

old 1: insert into has\_a values('&tweet\_id','&message\_id','&r\_polarity')

new 1: insert into has a values('ZX678310', 'QN18756', 'P')

1 row created.

SQL> select \* from has\_a;

TWEET\_ID MESSAGE\_ID R

------

AS190634 QW12345 P

ZX678310 QN18756 P

TNAME TABTYPE CLUSTERID

-----

FOLLOWING TABLE

HAS TABLE

HAS A TABLE

POSTS TABLE

RESPONSE TABLE

TWEET TABLE

USERS TABLE

7 rows selected.

SQL> rename has to users\_following;

Table renamed.

SQL> desc users\_following;

Name Null? Type

-----

USER\_ID VARCHAR2(10)

F\_USER\_ID VARCHAR2(10)

SINCE DATE

SQL> rename posts to users\_tweet;

Table renamed.

SQL> desc users\_tweet;

Name Null? Type

\_\_\_\_\_\_

USER\_ID NOT NULL VARCHAR2(10)

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TWEET\_ID NOT NULL VARCHAR2(10)

P DATE DATE

SQL> rename has\_a to tweet\_response;

Table renamed.

SQL> select \* from tab;

TNAME TABTYPE CLUSTERID

------

FOLLOWING TABLE

RESPONSE TABLE

TWEET TABLE

TWEET RESPONSE TABLE

USERS TABLE

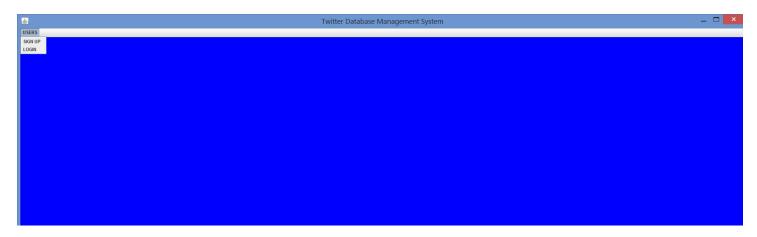
USERS\_FOLLOWING TABLE

USERS\_TWEET TABLE

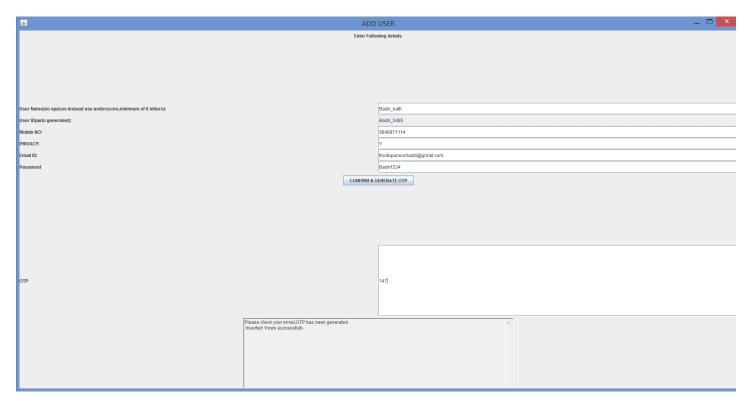
7 rows selected.

# Here are few details regarding the system:

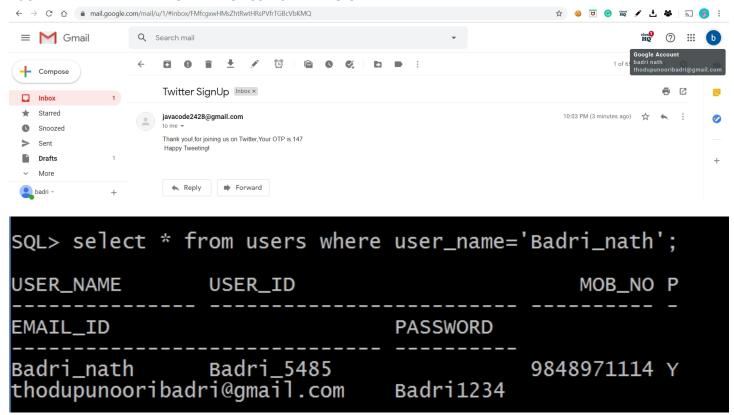
1. Initially system prompts the user either to sing up or login(if login account exits in data base).



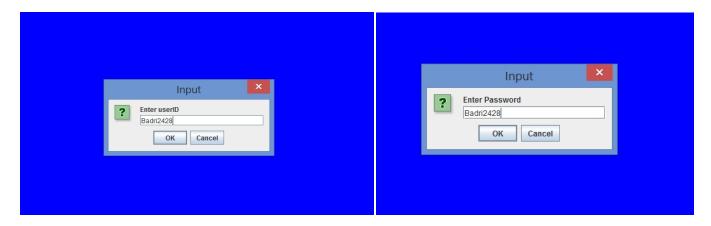
2.If user selects signup he/she has to enter details, once he/she confirms, he/she(user) receives an OTP, by which user has to validate details.



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2. A registered user of TDBMS can login to the system by providing his User ID and password as set by him while registering. After successful login, "Home" page for the user is shown from where he can access the different functionalities of ,can avail the tweets made by his followers. Where user can either reply or make a comments to the tweet or user can like and can re tweet a tweet and many more.



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3. Menu bar consists of two menu's named settings and tweet respectively.

Where settings consists of items like,

Update details

**Followers** 

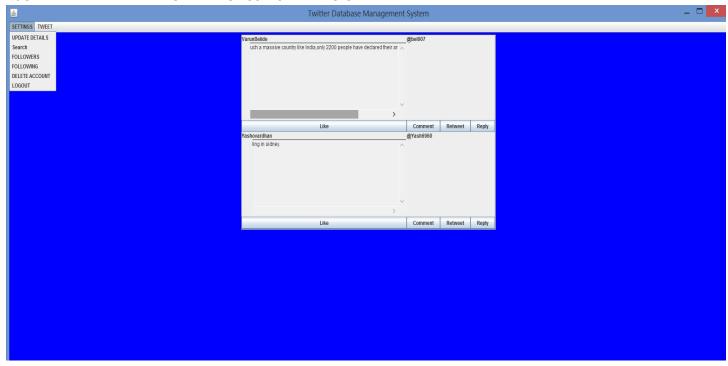
Following

Search

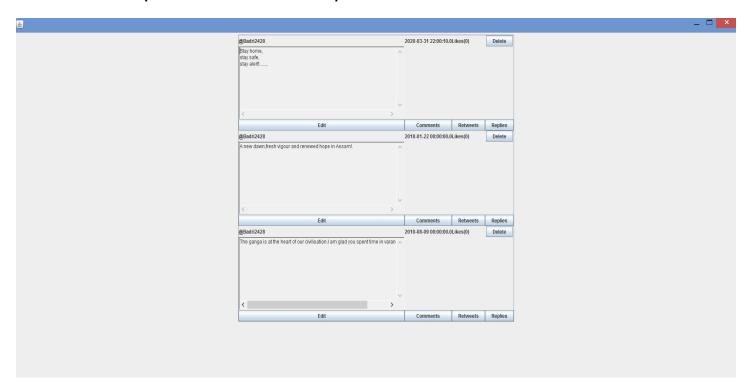
Sign out

Logout

(All these names give their original meaning, So I think there is no need for explaining these terms)



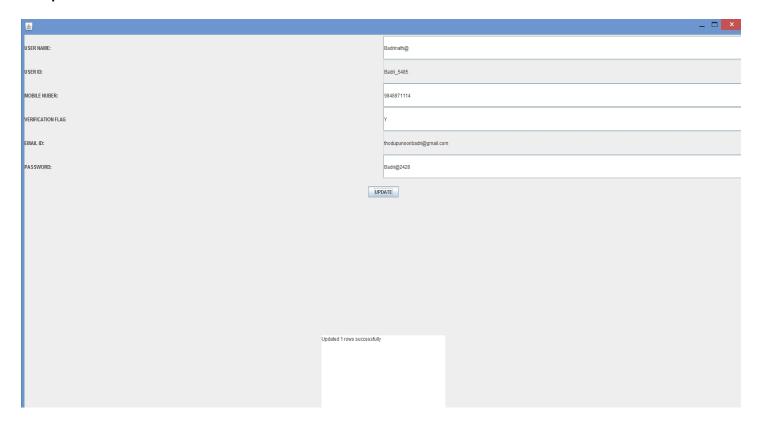
And tweets consists of items like compose tweet and your tweets where user can see the tweets made by him/her and can check the likes, comments, replies, re tweets to a particular tweet.



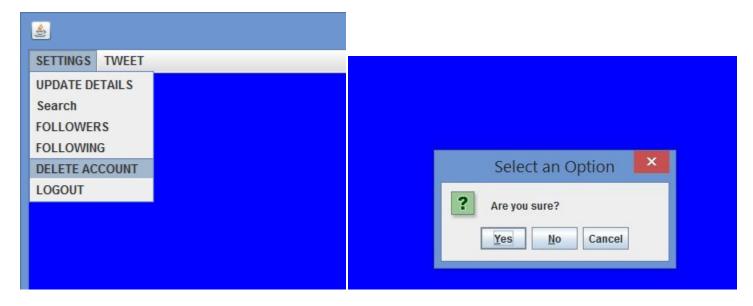
3. Search bar is customized i.e., results change based on text entered which just looks like a search engine in a web browser.



# 4. Update Details:



## Deleting an account:



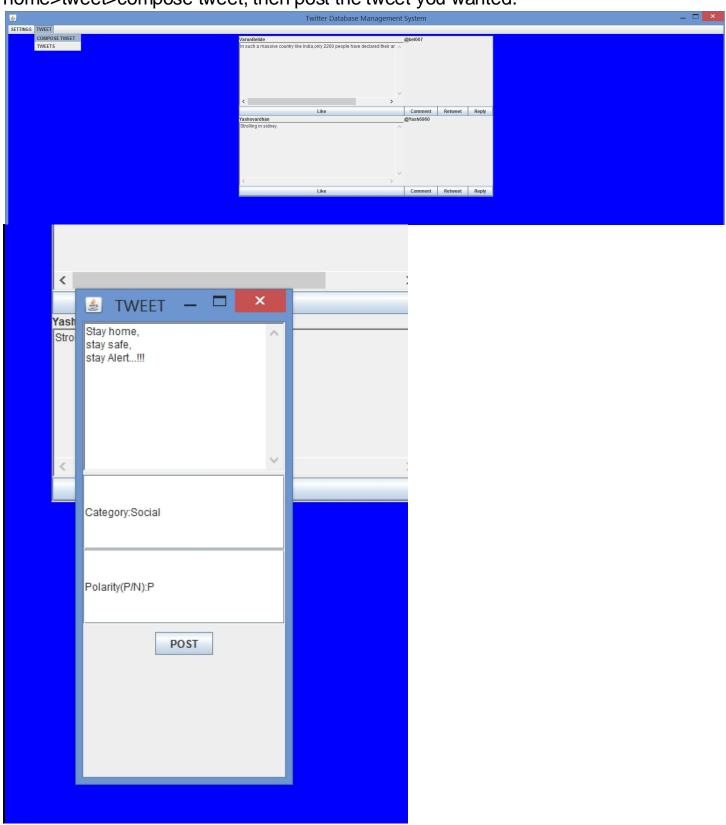
```
SQL> select * from users where user_name='Badrinath@';
no rows selected
```

## TWEETS:

You can even compose a tweet via following,

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home>tweet>compose tweet, then post the tweet you wanted.



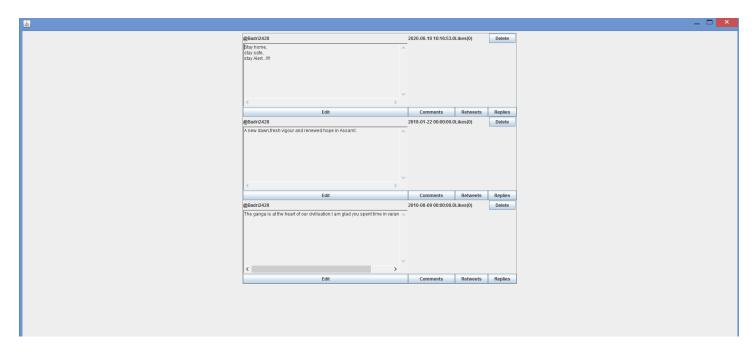
```
SQL> select * from tweet;
MESSAGE
       LIKES TWEET_ID CATEGORY
- ----
Stay home,
stay safe,
stay Alert...!!!!
O uiTb2XjusW Social
 new dawn, fresh vigour and renewed hope in Assam!.
0 TY1456278 Social
Strolling in sidney.
MESSAGE
       LIKES TWEET_ID
                          CATEGORY
            4 Tx129674 Fun
Sending my best wishes to the Indian U19 Cricket team ahead of their world cup f
inal.
            0 QW189528
                          Sports
Stronger together.Happy Republic Day to all of us.
            0 QP196328
                          Social
MESSAGE
       LIKES TWEET_ID CATEGORY
In such a massive country like India,only 2200 people have declared their annual
 income over 1cr.
            3 AS190634
                          Social
```

# SQL> select \* from users\_tweet;

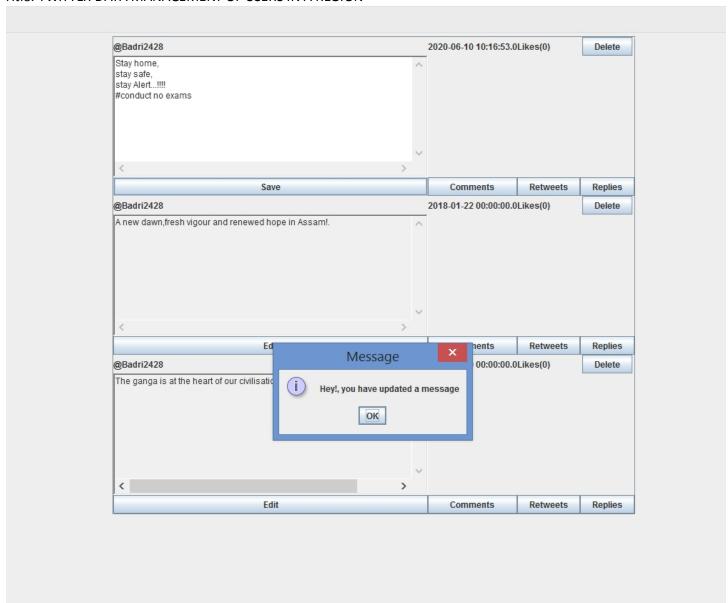
USER_ID	TWEET_ID	P_DATE
Badri2428	uiTb2XjusW	
Badri2428 Badri2428	TY1456278 ZX678310	09-AUG-10
Yash6960 Abhi5007	QW189528	24-DEC-17 14-FEB-18
Prana0680 bel007	QP196328 AS190634	26-JAN-20 22-JAN-19
7 rows selected.		

User can check his tweets via,

home>tweet>tweets, here say user\_id is Badri2428.



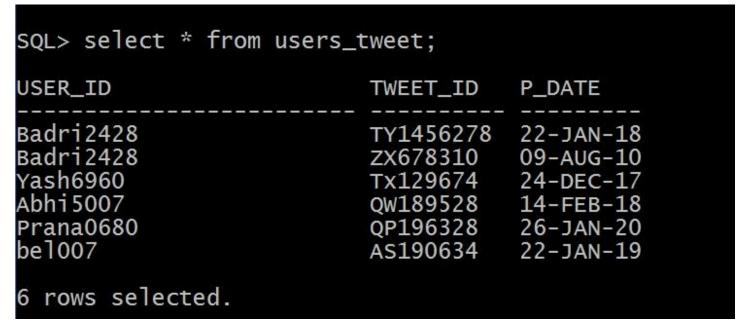
User can even edit his tweet.



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Look, the message has been updated and even you can delete a tweet just by clicking on delete button on a specific tweet you wanted to delete.

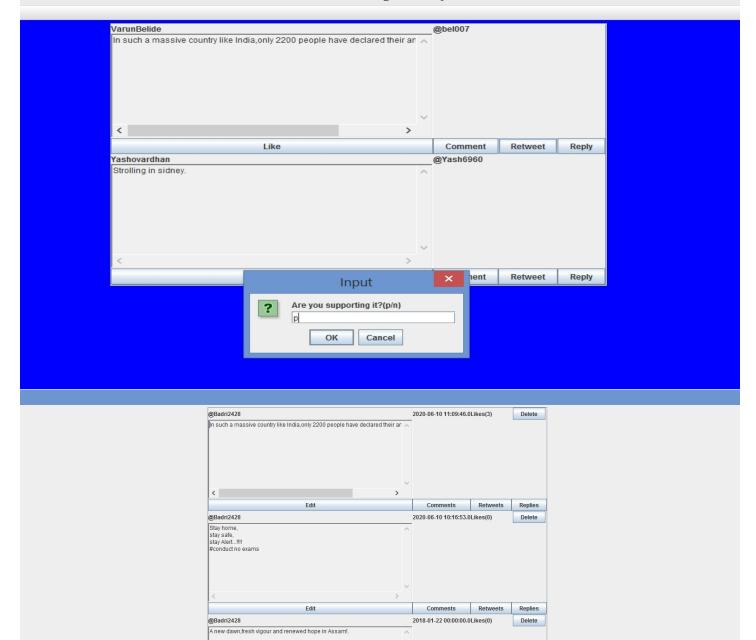




Like, comment and retweet works like this...,,

Coming to Retweet: When a user retweet's corresponding likes and comments will be reflected onto your tweet. Once you retweet, the text on the button changes to retweeted and clicking on it again, user can undo his retweet.

### Twitter Database Management System



Comments Retweets Replies

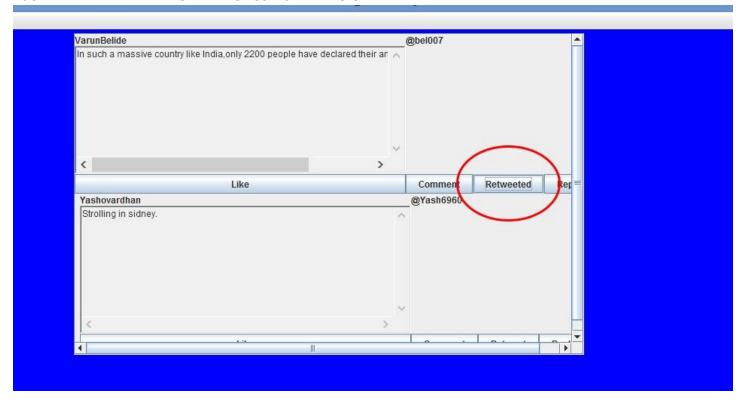
Delete

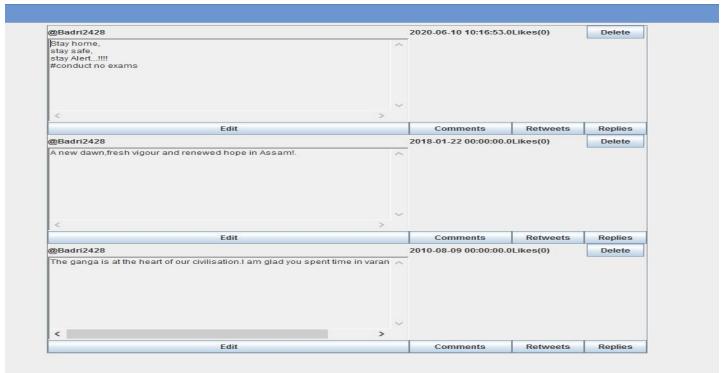
Retweets Replies

2010-08-09 00:00:00.0Likes(0)

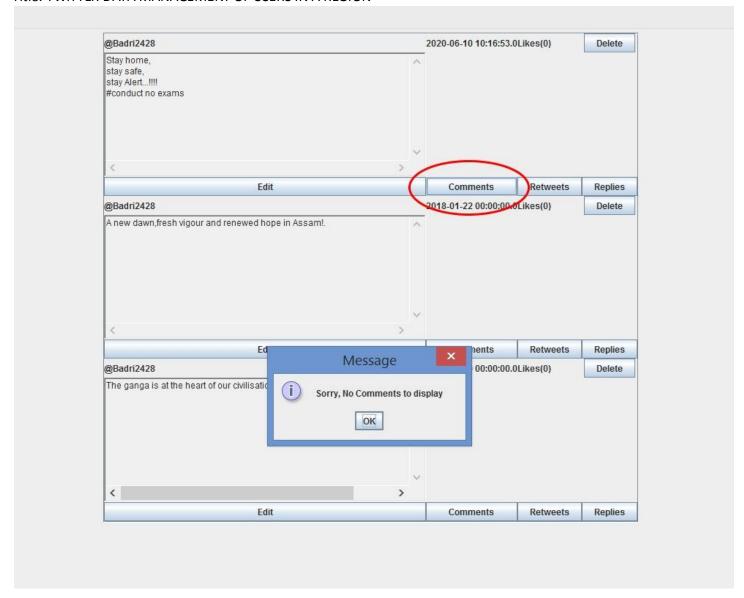
ROLL NO:1602-18-737-066 Name: Thodupunuri Badrinath The ganga is at the heart of our civilisation.I am glad you spent time in varan

@Badri2428





Also user can check for replies for his tweets from his/her followers, lets check for comments for a particular tweet.

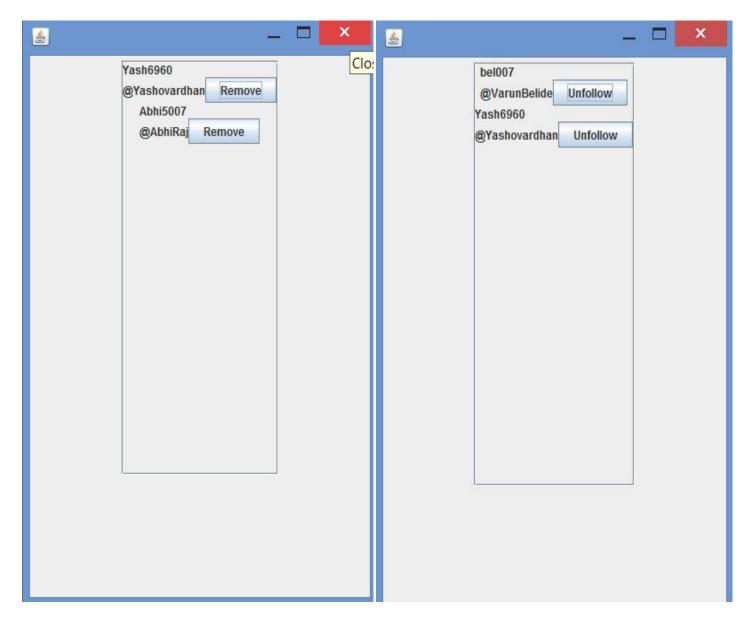


Now a user can check for his followers and following via..,,

home>settings>followers/following



You can follow someone just by searching his/her username/userid in the search bar, Already shown.



User can remove users from following and followers just by clicking on unfollow and remove buttons.

### **CONCLUSION:**

Thus, a Java AWT,SWING based twitter simulation is being created, which is connected to the Oracle 11g database. Therefore, all the operations performed are directly updated on the respective tables created in the database.

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# **REFERENCES:**

https://buffer.com/library/twitter-analytics/

https://twitter.com/explore

https://docs.oracle.com/javase/8/docs/api/ https://www.javatpoint.com/dbms-tutorial