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

 \boldsymbol{A}

Report

Submitted in partial fulfilment of the

Requirements for the award of the Degree of

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

BY

T.BADRINATH<1602-18-737-066>



Department of Information Technology

Vasavi College of Engineering

(Autonomous)

Ibrahimbagh, Hyderabad-31

2020

BONAFIDE CERTIFICATE

Certified that this project report titled "Twitter *Database Management in a region*" is Bonafide work of Mr Thodupunuri Badrinath ,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 Signature of the Examiner

External Examiner B.LEELAVATHY

Lecturer

Department of Information Technology

In order to follow up the details regarding this project, select(ctrl+click to follow link) the below link:,

https://github.com/Badrinath2428/DBMS-PROJECT/blob/master/TWITTER%20DATABASE%20MGMT.p df

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.

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

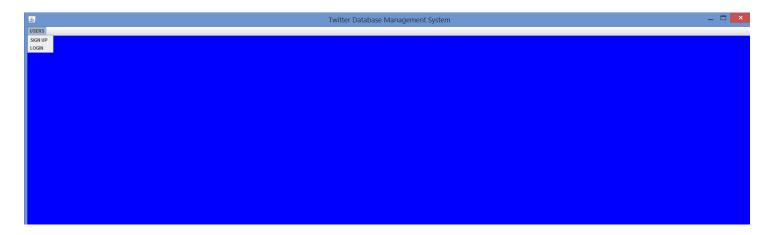
Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

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

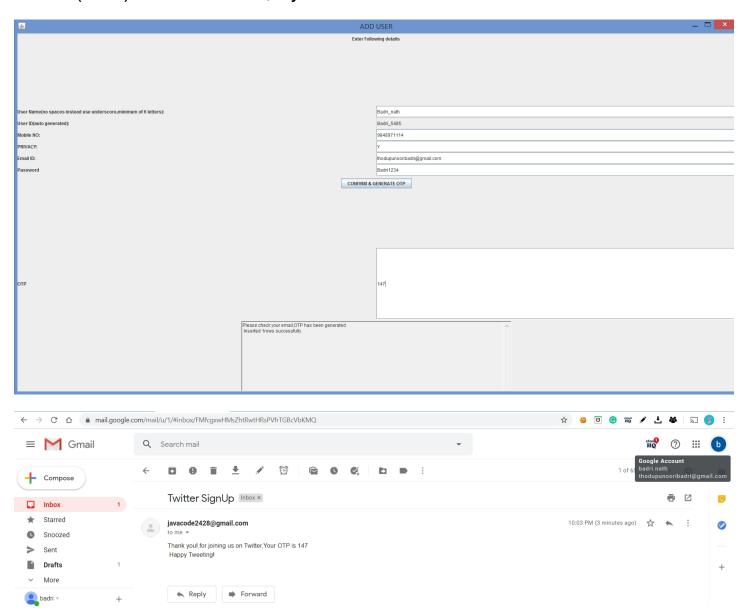
https://github.com/Badrinath2428/DBMS-PROJECT/blob/master/Twitter%20database%20management%20system.zip

Here are few details regarding the system:

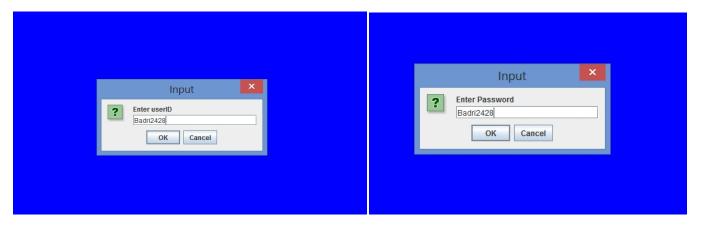
1. Initially system prompts the user either to sing up or login(if login account exits in data base).



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



2.Once user gets logged in using his user id and password, on screen he/she can see 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.





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

Where settings consists of items like,

Update details

Followers

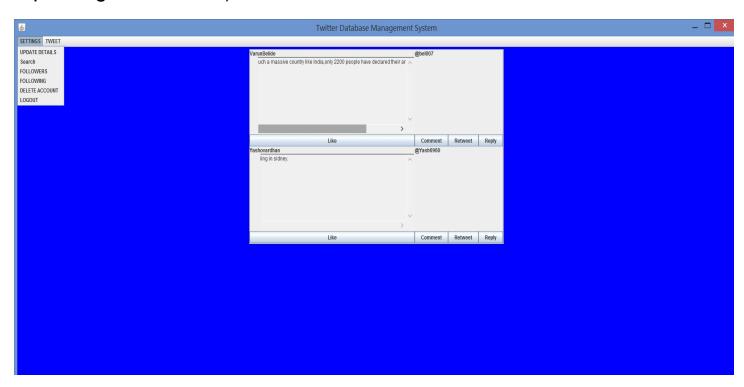
Following

Search

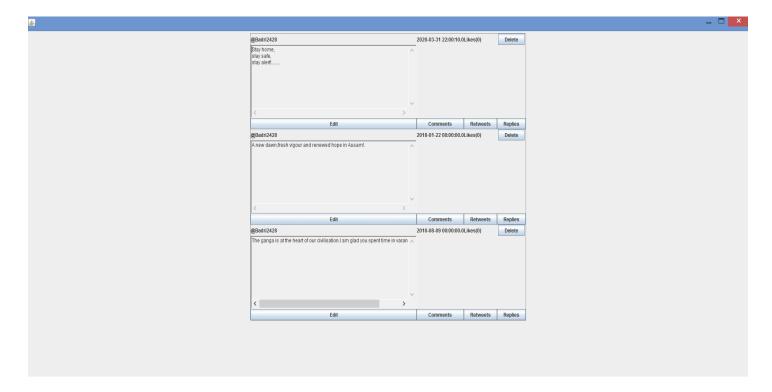
Sign out

Logout

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



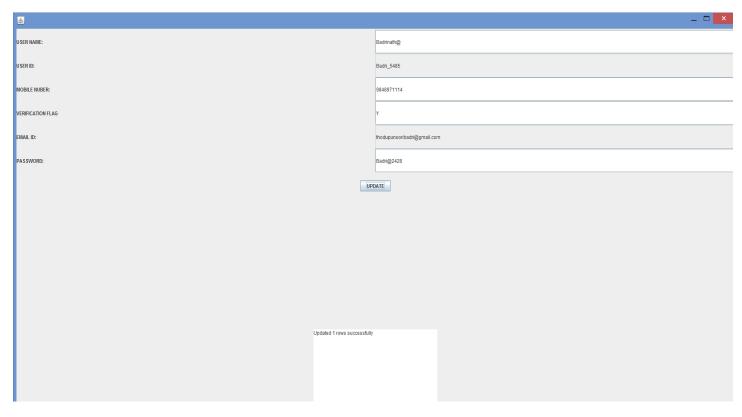
And tweets consists of items like compose tweet and your tweets where user can see the tweets made by him/her and can check the likes, comments, replies, re tweets to a particular tweet.



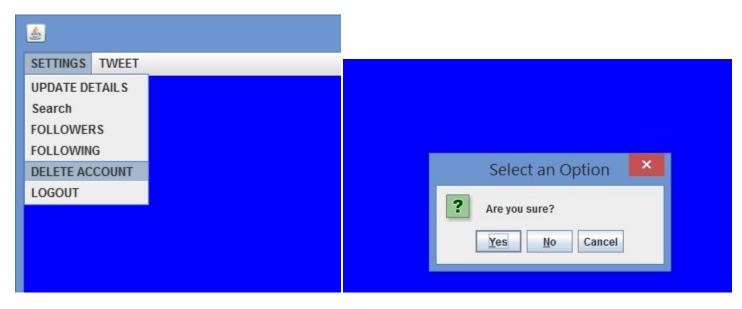
3. Search bar is customized i.e., results change based on text entered which just looks like search engine.



4. Update Details:



Deleting an account:



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

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.