# **CS 166 Final Project Phase 3**

# Group 24:

Shreya Godishala-862313765 Shubham Sharma-862253820

## **Prerequisites:**

PostgreSQL: Postgresql is a relational database and it should be installed from

https://www.postgresql.org/

**Java:** JDK should be installed from oracle java 1.8 should be installed.

Languages: Java, PostgreSQL

## 1. Getting started:

Navigate the Postgresql folder Run the PostgreSQL.sh using the macOS command 'source ./startPostgreSQL.sh' and Run the createpostgredb.sh script using the command "source ./createPostgreDB.sh".

- Create tables and load the given data into the database using sql files and run create\_db file using command "source ./sql/scripts/create db.sh"
- Navigate java folder,run ProfNetwork using command "source ./java/scripts/compile.sh".
- Enter your menu number and check the result.
- Input 10 to exit.
- Stop the Server using command "source ./stopPostgreDB.sh".

#### **Functionalities With Collaboration Details:**

**Update Profile**: The user can change the password. [Shubham, shreya]

**Search\_User**: Any user on the network can be searched and the Profile of the user can be viewed.[Shreya]

**message\_Options**: User can read and send the message, User can also delete the message on sender's profile and receiver's profile.[Shreya, Shubham]

**connection\_options**: The user can view connections of the user and view the profile, send a message to the connection and also accept and decline connection requests.[Shreya, Shubham]

**View Profile:** The user can view the profile and either can send a connection request or message.

Documentation for phase 3 of the project. [Shreya, Shubham]

## **Extra Credit:**

Trigger.sql: Message Trigger for automatically updating the msgID during insertion.[Shreya] Create index.sql: Created indexed for all the tables in the database.[Shreya, Shubham]

## **Implementation:**

## MAIN MENU - User Creation and login:

```
*********

User Interface

************

Connecting to database...Connection URL: jdbc:postgresql://localhost:5432/postgres

Done

MAIN MENU

------

1. Create user

2. Log in

9. < EXIT

Please make your choice: 1

Enter user login: Shraya

Enter user password: %adishala

Enter user email: gshru802@usr.edu

Enter user Full Name: Shraya Godishala

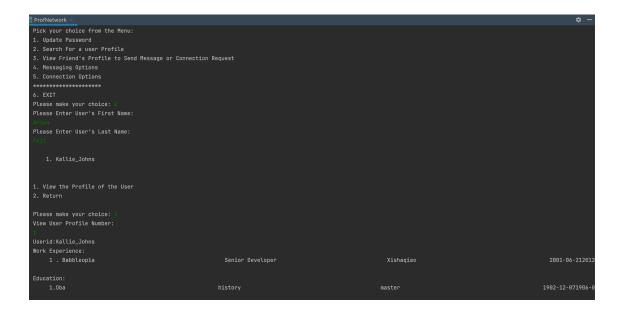
Enter user Date Of Birth: 05/50/1999

User successfully created!
```

## **Update Password:**

```
MAIN MENU
******
Pick your choice from the Menu:
1. Update Password
2. Search For a user Profile
3. View Friend's Profile to Send Message or Connection Request
4. Messaging Options
5. Connection Options
******
6. EXIT
Please make your choice: 1
1.Update password
2.<Exit
Please make your choice:
    Please Enter a New Password: Terry
Password Updated Successful
```

## **Search Profile:**



View Profile of connection and send a message:

```
MAIN MENU

******************

Pick your choice from the Menu:

1. Update Password

2. Search For a user Profile

3. View Friend's Profile to Send Message or Connection Request

4. Messaging Options

5. Connection Options

*******************

6. EXIT

Please make your choice: 3

Giovani's connection list:

1. Verner
```

```
1. View Profile of Connection
2. Send message to a connection
3. Exit

Please make your choice:

Please enter the number of the connection you want to view:

Name: Enmy Jones
Date Of Birth: 1956-93-91

Work Experience:
None
Education:

1. Blognation law bachelor 1918-96-391976-9
2. Wordtune medicine medicine master 2804-89-151922-1

1. View Users Connections
2. Send Message
3. Send Connection Request:
9. Return
Please make your choice:

Please enter the message you want to send: 1918-96

Please enter the message you want to send: 1918-96
```

#### Messages:

```
************************
Pick your choice from the Menu:
                                                                              Please make your choice:

    Update Password
    Search For a user Profile
    View Friend's Profile to Send Message or Connection Request

4. Messaging Options
******
6. EXIT
Please make your choice:
                                                                              Send Messages

    Read Message
    Send Message

                                                                              1. Send a Message
                                                                              2. Sent Messages
                                                                              3. View a Sent Message
                                                                              4. Delete Sent Message
Read Messages
1. View any new messages

    View all received messages
    Delete a received message

                                                                              9. Exit
```

#### **Connections:**

## **Design Decisions:**

We used IntelliJ IDEA Edu for running the ProfNetwork.java file as well as the terminal to modify and debug the code.

## **Assumptions:**

While Searching the user, instead of only searching. We added the view profile feature of the searched user.

## **Hardest Part:**

Figuring out adding trigger for dynamically adding msgId to 'MESSAGE' table.

Figuring logic for checking connection depth and valid connection possibilities.