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: Shreya
     Enter user password: Godishala
     Enter user email: gshre002@ucr.edu
     Enter user Full Name: Shreya Godishala
     Enter user Date Of Birth: 05/30/1999
User successfully created!
```

```
MAIN MENU
---------
1. Create user
2. Log in
9. < EXIT
Please make your choice: 2
     Enter user login: Giovani
     Enter user password: Terry
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:
```

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: 1
      Please Enter a New Password:Terry
 Password Updated Successful
```

Search Profile:

```
 ProfNetwork                                                                                        ⚙ —
 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: 2
 Please Enter User's First Name:
 Arjun
 Please Enter User's Last Name:
 Fell

     1. Kallie_Johns


 1. View the Profile of the User
 2. Return

 Please make your choice: 1
 View User Profile Number:
 1
 Userid:Kallie_Johns
 Work Experience:
     1 . Babbleopia                    Senior Developer              Xishaqiao              2001-06-212012

 Education:
     1.Oba                             history                       master                 1902-12-071906-0
```

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: 1
Please enter the number of the connection you want to view: 1
Name : Emmy Jones
Date Of Birth :1956-03-01

Work Experience:
None
Education:
     1.Blognation                    law                    bachelor                1910-06-301976-0
     2.Wordtune                      medicine               master                  2004-09-151922-1

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

Please enter the message you want to send: Hello
```

Messages:

```
*********************
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: 4


 Message Options
1. Read Message
2. Send Message
3:Exit

Please make your choice: 1


Read Messages
---------
1. View any new messages
2. Read a  Message
3. View all received messages
4. Delete a received message
---------
5.Exit
```

```
Please make your choice: 2



Send Messages
---------

1. Send a Message

2. Sent Messages

3. View a Sent Message

4. Delete Sent Message
---------

9. Exit
```

Connections:

```
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: 5

Connection Options
1. View Connections of the User
2. Accept or Decline Connection Requests
---------
9.Exit

Please make your choice: 1

Connections:
1. Verner

1. View Profile of the connection
2. Send Message to the connection
---------
9. Exit
```

```
1. View Profile of the connection
2. Send Message to the connection
---------
9. Exit

Please make your choice: 1
Please Enter The connection:

Name : Emmy Jones
Date Of Birth :1956-03-01

Work Experience:
None
Education:
    1.Blognation                       law                    bachelor              1910-06-301976-0
    2.Wordtune                         medicine               master                2004-09-151922-1

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

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 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.