Design Document

Advanced Programming (004316)

s3622026 BOCHUAN ZHU 60% s3643477 XU ZHE 40%

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Introduction:

There are two different patterns when using this app, GUI and command line. When click the "Run" button in Eclipse, the GUI will display, after close the GUI window, the command line pattern will be operated. (You need close the open window rather than click "Exit" button on GUI window).

In general, this app consists of 6 main classes, includes "GUI", "MiniNet", "Driver", "InformationDB", "Account", "Run". Besides, there are 1 interface which is "Method", and 8 Exception class.

This app designed by using Eclipse as IDE, and run on the Windows environment. We also use JDK 8, JavaFx, HSQLDB.

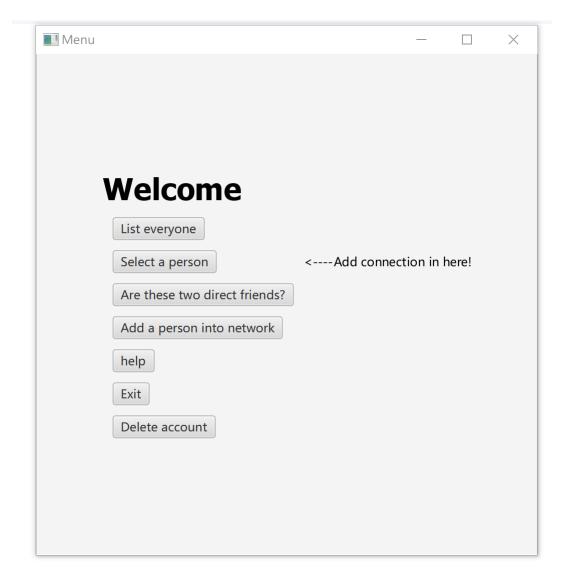
(when you run this app, if there are HSQL exception as "HSQL eclipse java.net.BindException: Address already in use", which means this process is busy, please reboot your IED, then run it again)

How to use?

1. click "run" button on Eclipse



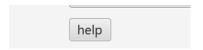
2. This is the Menu page



There are several functions, make your choice. And In the second line there is a hint as "add connection in here!", if you want to add

friends, couple, child, parents and so on, you need click "select a person" button first, and a new window will be opened.

3. help



Click "help" in the menu page, you will find useful information.

you need choose an option, you can select or add person you need create account in different name

4. Use command line rather than GUI

If you don't want to use GUI, you need close GUI window first.



Click "X" on window rather than "Exit" button.!!

If you click "Exit", the whole app will be shut down.!!

5. Now, you can use it as command line pattern

MiniNet Menu
=======================================
1.List everyone
2.Select a person
3.Are these two direct friends?
4.Add a person into network
5.help
6.Exit
0.Delete account
Enter an option:

Scenarios:

When you run this app, the app will initial information, which means there are some people and relations in the system.

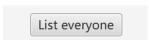
All account (person) information will be stored in the "people.txt" file, "relations.txt" file as well as database (HsqIDB), you can check it by click "search" button.

How we design this app?

The app will root from "MiniNet" class, because of main method. "GUI" class is responsible for GUI design and display, "Driver" class are mainly used for display menu as command line pattern; "Run" class can patch many methods from other class, mainly from "Account" class; "Account" class store account information, and it implements the interface of "Method". "GUI" class and "Driver" class need interact with "InformationDB" class, "MiniNet" class will link with "GUI" and "Driver" class. (more details displayed in the last page as class diagram)

Choice and Result:

1. List people



Click this button, and all of people's information will be displayed.

As:



There are 4 areas, the first area shows info stored in the memory;

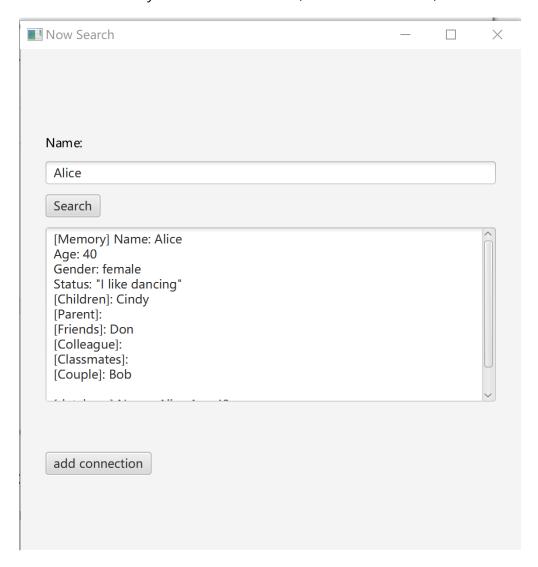
The second and third area shows info stored in the file.

The forth area shows info searched from database.

2. Select a person

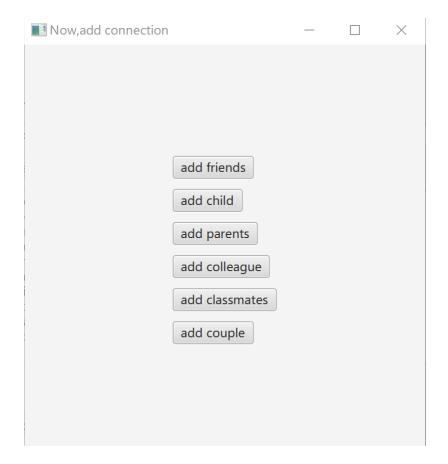
Click this button

Enter the name you want to search, this is the result;



3. Add connection

Click "connection" button, a new window will be opened.



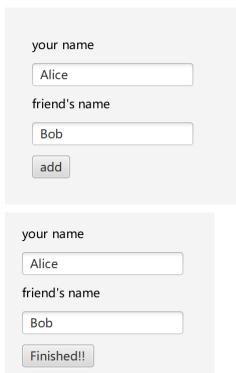
Make your choice.

Here is an example as "add friends".

Click "add friends".



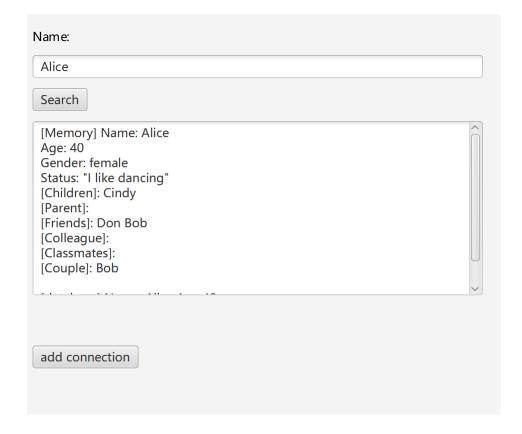
A new window opened. Fill the name and click "add".



Look, the Button change to "Finished".

You have finished.

Let's click "search" button to check Alice. Well done.



4. Add a person (account)

Click "add a person into network" on the main page.

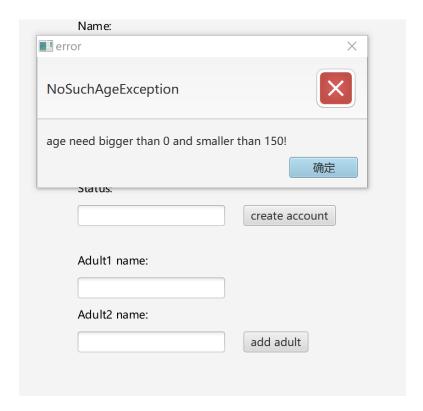
After that, a new window opened.

Name:	
Zed	
Age:	
30	
Gender:	
Status:	
	create account
Adult1 name:	
Additi name.	٦
Adult2 name:	J
Additz name.	
	add adult

Fill the text bar, gender, status can be empty. And click create account. The system will judge your age, if you are too young, there is a notification, in this case, you have to add two adults.

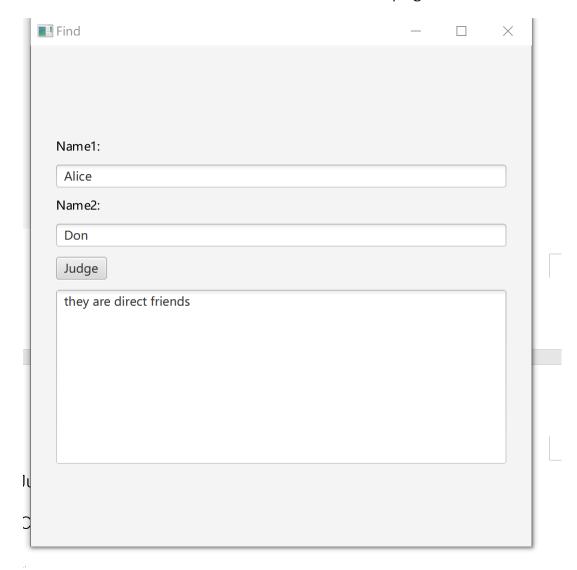


And if you enter the name which is invalid, the Error window will be opened.



5. Judge friends

Click "Are these two direct friends" from main page.



One more thing, if your operation is invalid or don't meet requirement, the exception will display, sometimes you need reboot this app when the error is serious.

Exception:

