

Sam Goldberg

7/7/20

CS 400

Lecture 002

Instructor: Florian Heimerl

Project Proposal for CS400 Final Project

Title: “Remember Me?: an Interactive Contact List”

Problem Statement

Meeting and remembering new people while living on a college campus can be an arduous task. UW-Madison alone has around 45,000 enrolled students each year, and although most students only meet a small fraction of this population, even remembering 100 people can be difficult and lead to uncomfortable interactions.

“Remember Me?” will solve this problem by providing an interactive GUI that allows users to add key details about their connection such as name, photo, date of birth, city of origin, and other descriptive notes. “Remember Me?” will also allow users to add mutual connections to keep track of who their friends know.

Primary Stakeholders

The first version of this project will be directed towards college students, however, the ideas behind the application can be directed to help any individual.

Graphical User Interface

A basic contact will appear in the following format on the graph



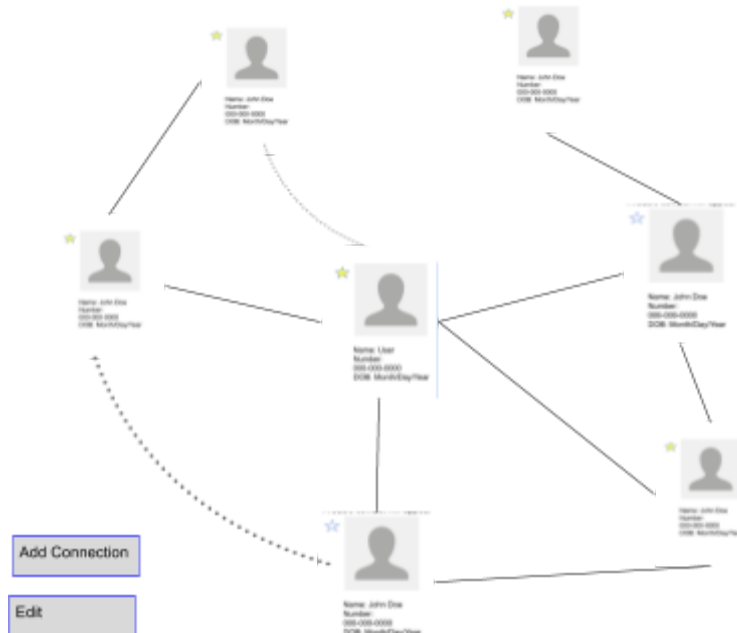
After clicking on a contact, a new JavaFX scene will show a more descriptive representation of the selective person

Filled star = close friend (clickable)



Name:
Phone #:
DOB:
Age:
Where you met?
Mutual Friends:
Friendship Status: (Close Friends, Friend, Acquaintance, Mutual Friends)
School:
Major:
Work:
Notes:

The graphical interface will look like the following picture. Solid lines mean that the two connections are friends and the dotted line means that the two connections are acquaintances. The user will be placed in the middle of the graph as a point of reference.



There will also be an option to view contacts in a list view

Data

The input and output file of this application will be the same. The user will input the file as a CSV with their graphical information and when the program is terminated, the graphical information will be updated to the input file

```
1 Name, Photo Url, Date of Birth, meeting place, Friendship Status, School, Major, Work, Mutual Friends Notes
2 Jane Doe, https://alumni.crg.eu/sites/default/files/default_images/default-picture_0_0.png, 5/12/97, Class, acquaintance, UW Madison, Biomedical Engineering, N/A, John Doe, Jane likes to go rock climbing and surfing
3 John Doe, https://alumni.crg.eu/sites/default/files/default_images/default-picture_0_0.png, 5/17/2001, Party, Friends, UW Madison, Marketing, Real Estate Firm, Jane Doe, John plays piano and is dating jane
```

Lines: 3 Characters: 528 Location: 529 Line: 3

Class (Type) Summary

<u>Type</u>	<u>Name of Type</u>	<u>Parameters</u>	<u>Description/purpose of type</u>
Class	Contact	Name, Phone Number, Date of Birth, Friends, Mutual Friends, Photo, School, Major, Work, Notes, Close Friends (boolean),	Holds the following information for a contact
Class	ContactDeep extends Label	Contact	A Label that displays all information from a Contact
Class	ContactShallow extends Label	Contact	A Label that displays Name, photo, and Phone Number from

			a Contact
Interface	GraphADT<T>		A template for a contact graph
Class	UserGraph implements GraphADT<Contact>		A graph that keeps track of all of the user's contacts List<Contacts>, remove(), add(), insert(), get(), size()
Class	Main extends Application		Controls the JavaFX graphics start(), Main()