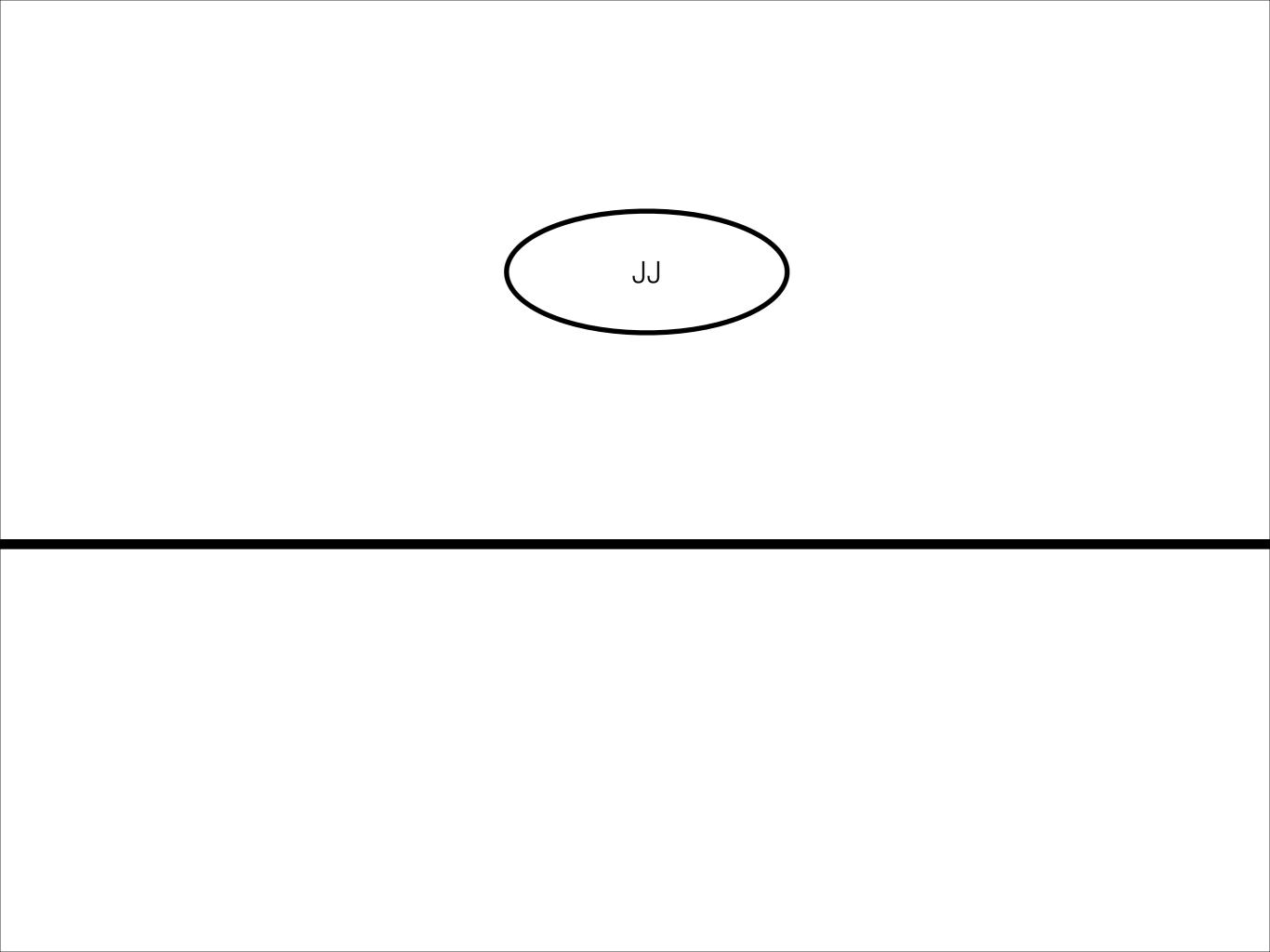
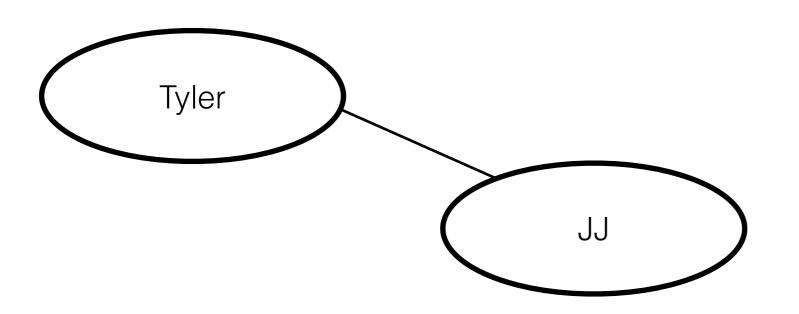


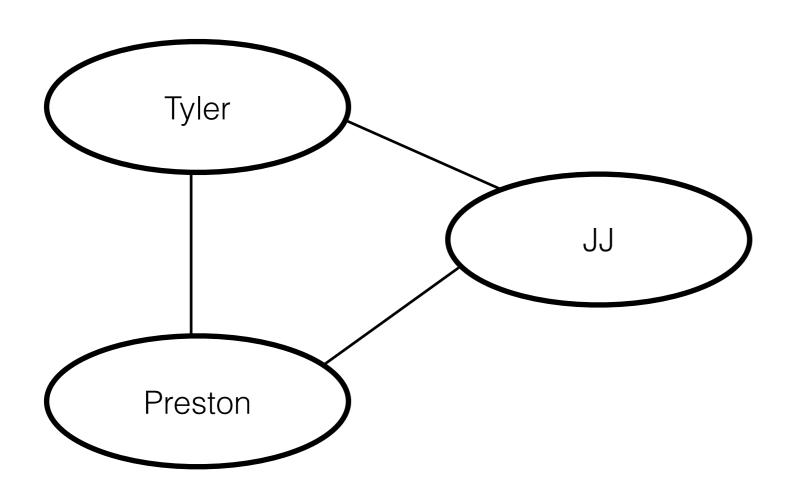
YEAH session #7

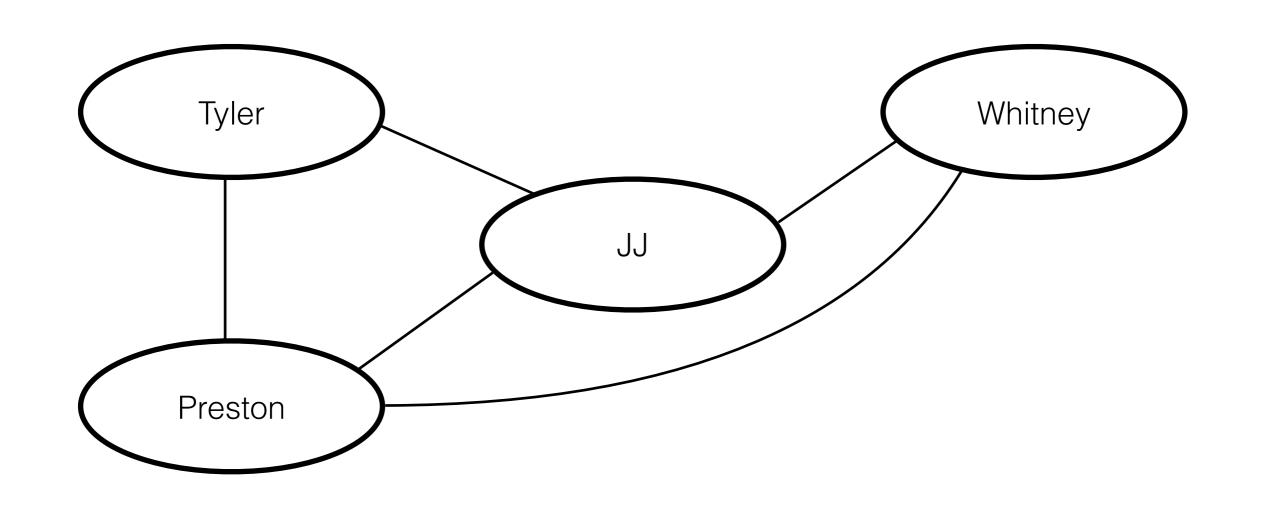
16 March 2014, 7p-8p Miles Seiver and Whitney LaRow

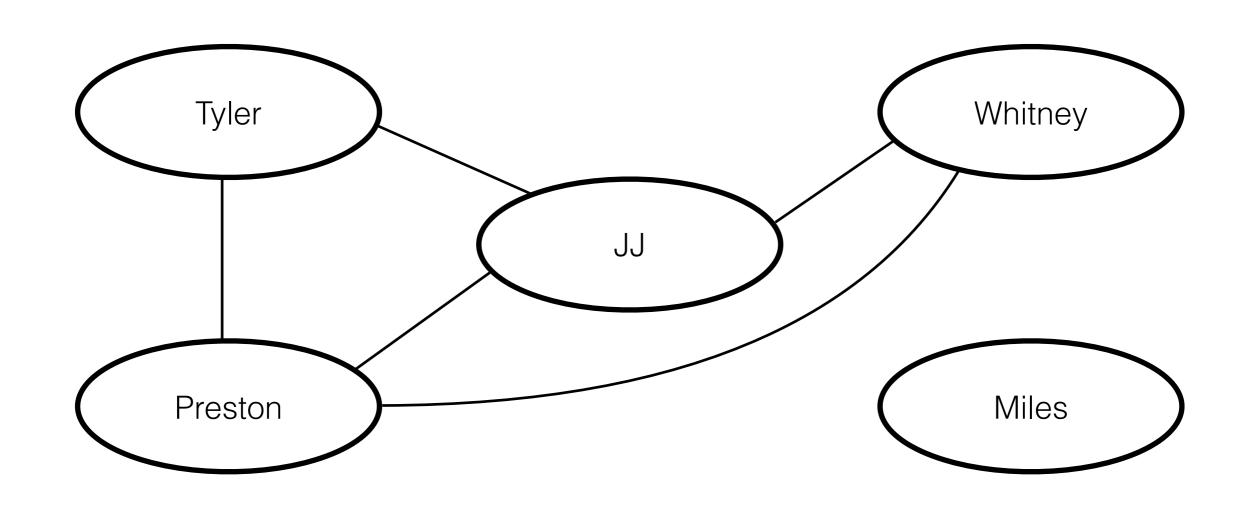
social networks

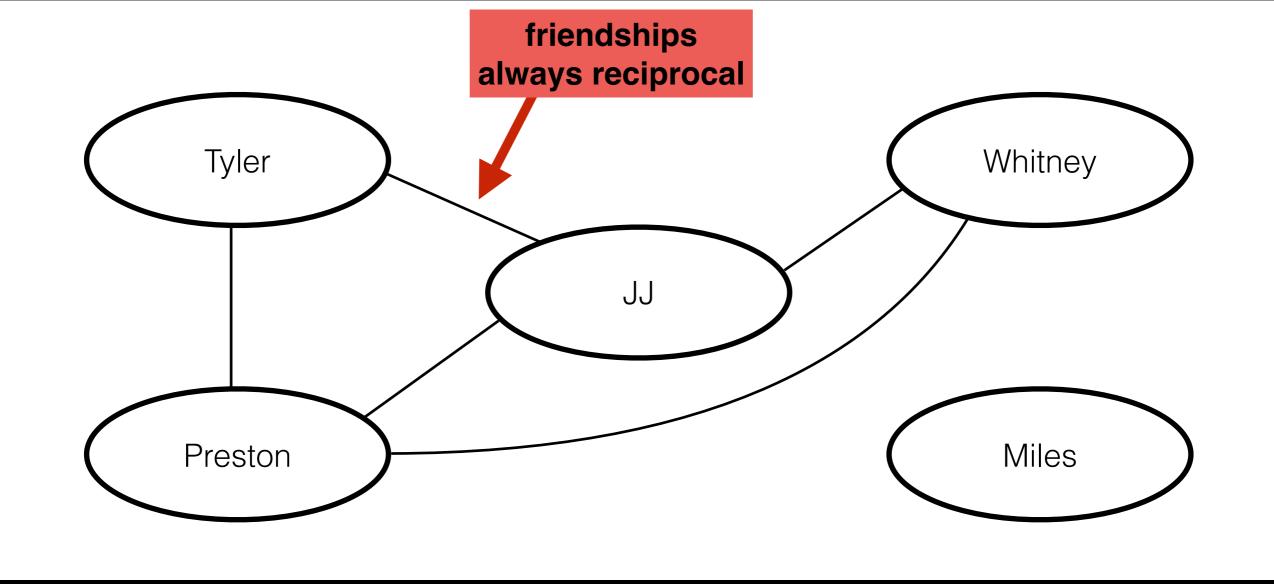


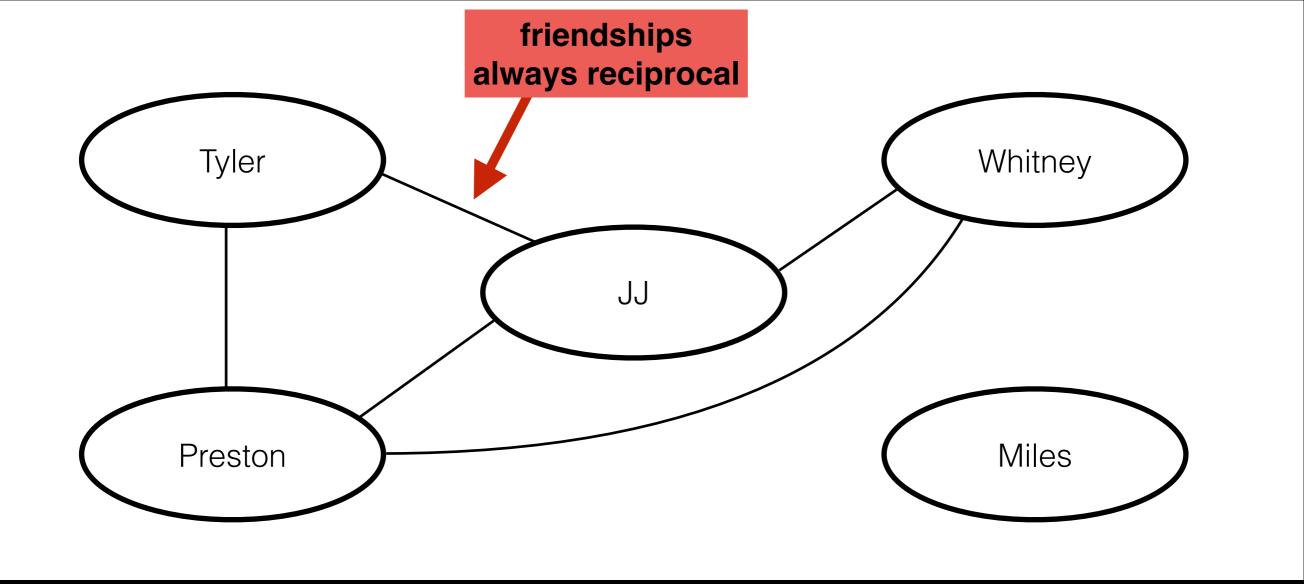












<u>Tyler's friends:</u>

J

Preston

JJ's friends:

Whitney

Tyler

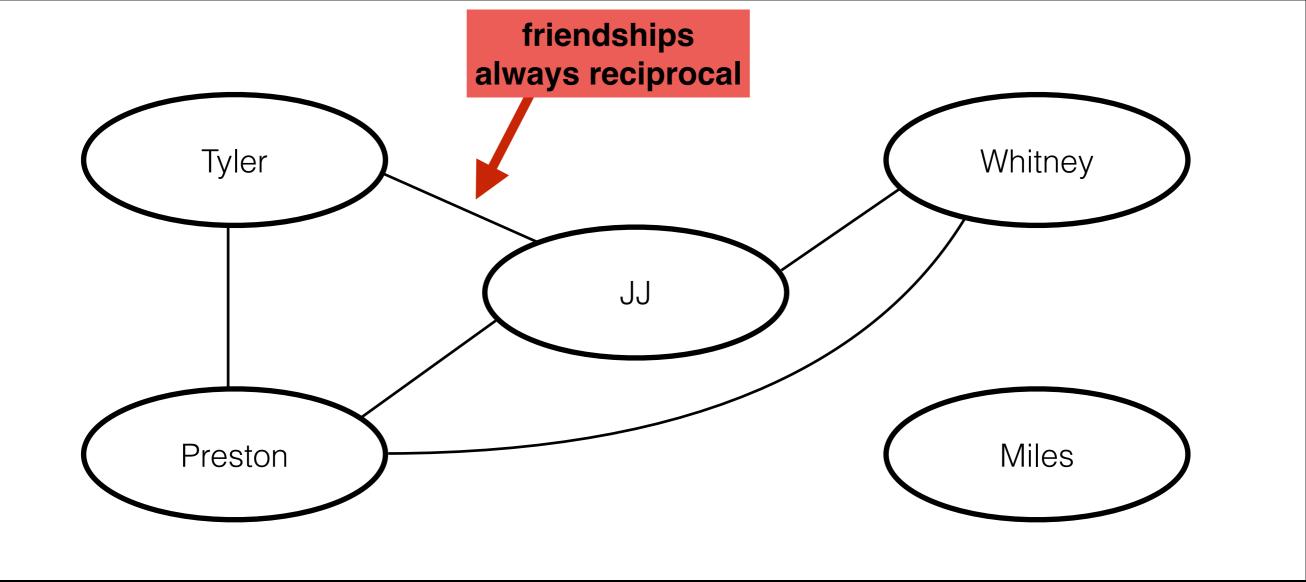
Preston

Whitney's friends:

JJ

Preston

Miles's friends:



Tyler's friends:

JJ

Preston

JJ's friends: Whitney Tyler Preston

Whitney's friends:

JJ

Preston

Miles's friends:

the assignment

due Friday, 21 March @ 11:30am

due Friday, 21 March @ 11:30am

due Friday, 21 March @ 11:30am

No late submissions will be accepted.

due Friday, 21 March @ 11:30am

No late submissions will be accepted. No late days may be used.

GImage

GImage

interactors

GImage

interactors

social network data structures GImage

interactors

social network data structures GImage

iterators

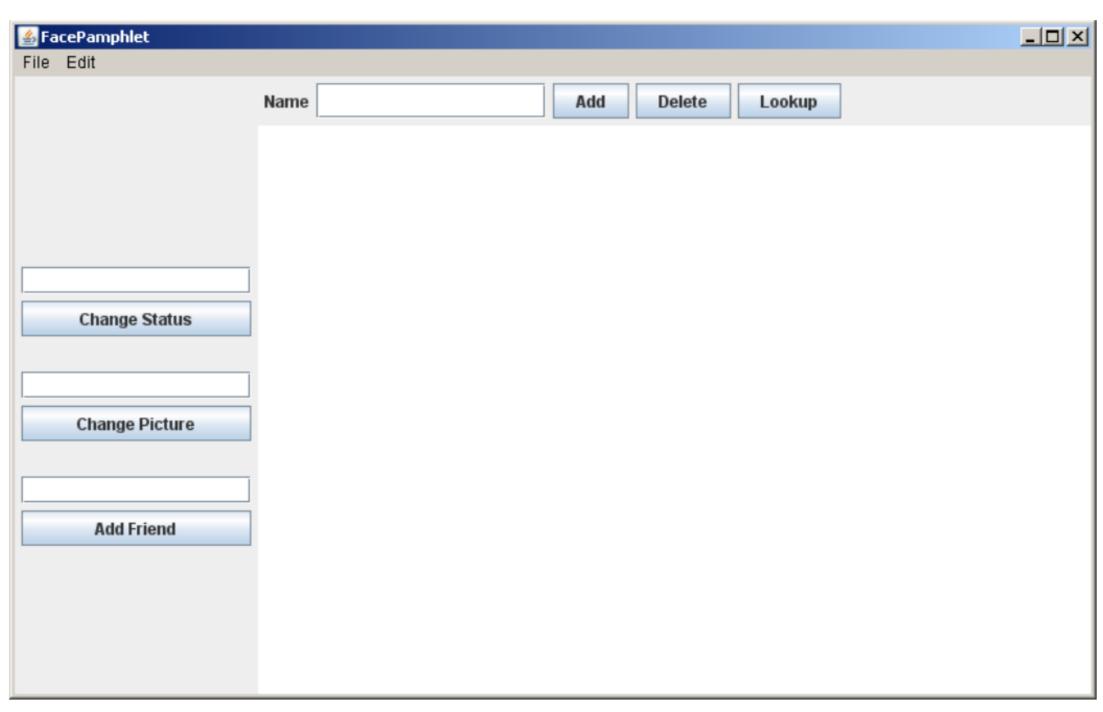
interactors

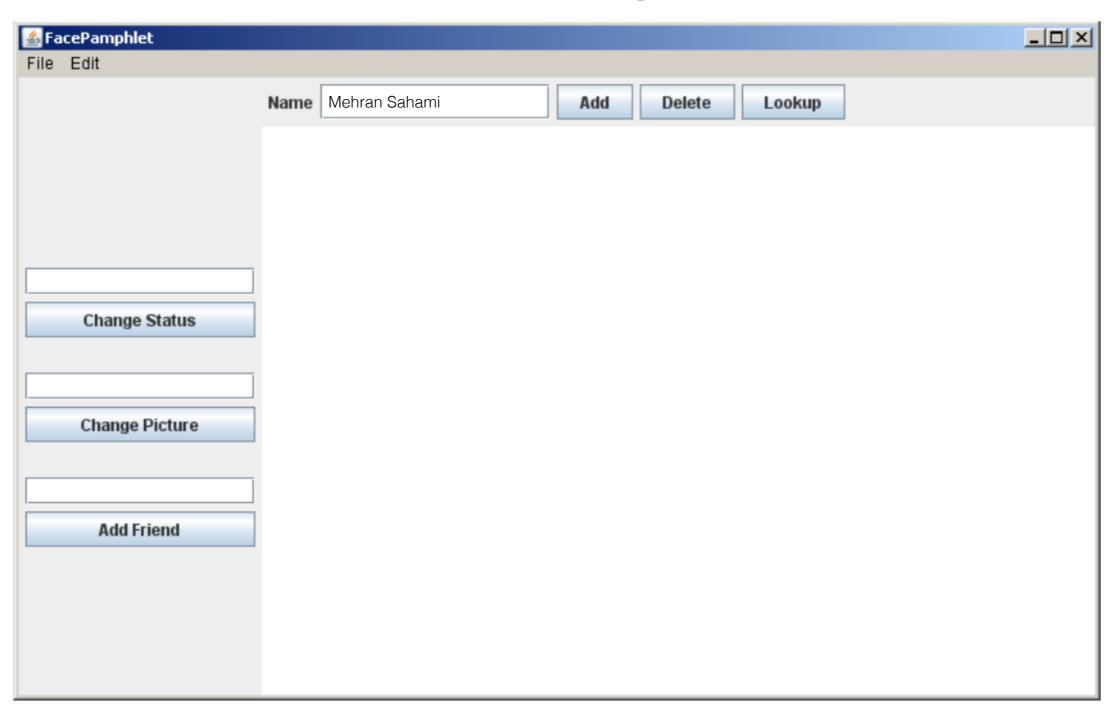
social network data structures GImage

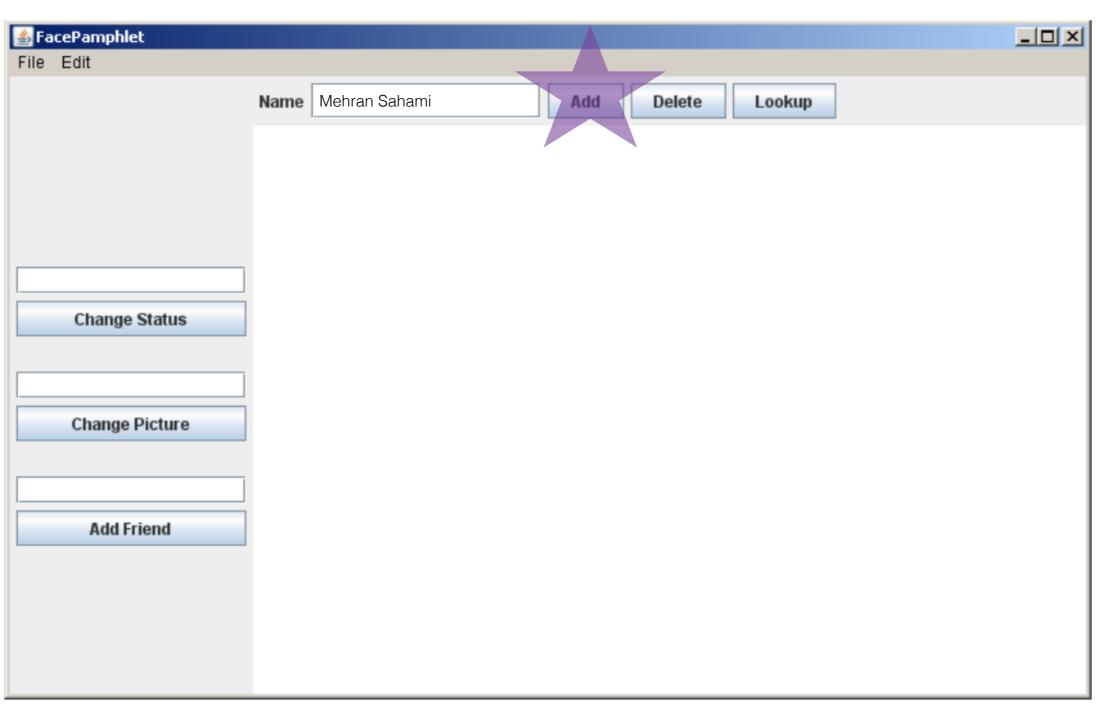
iterators

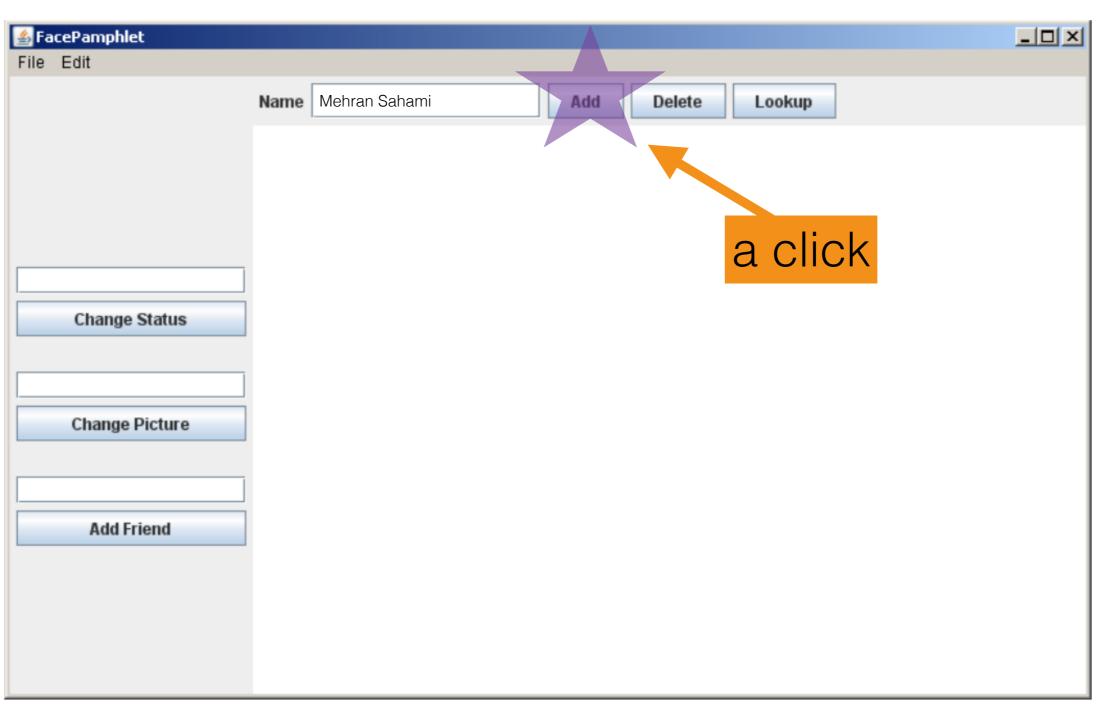
interactors

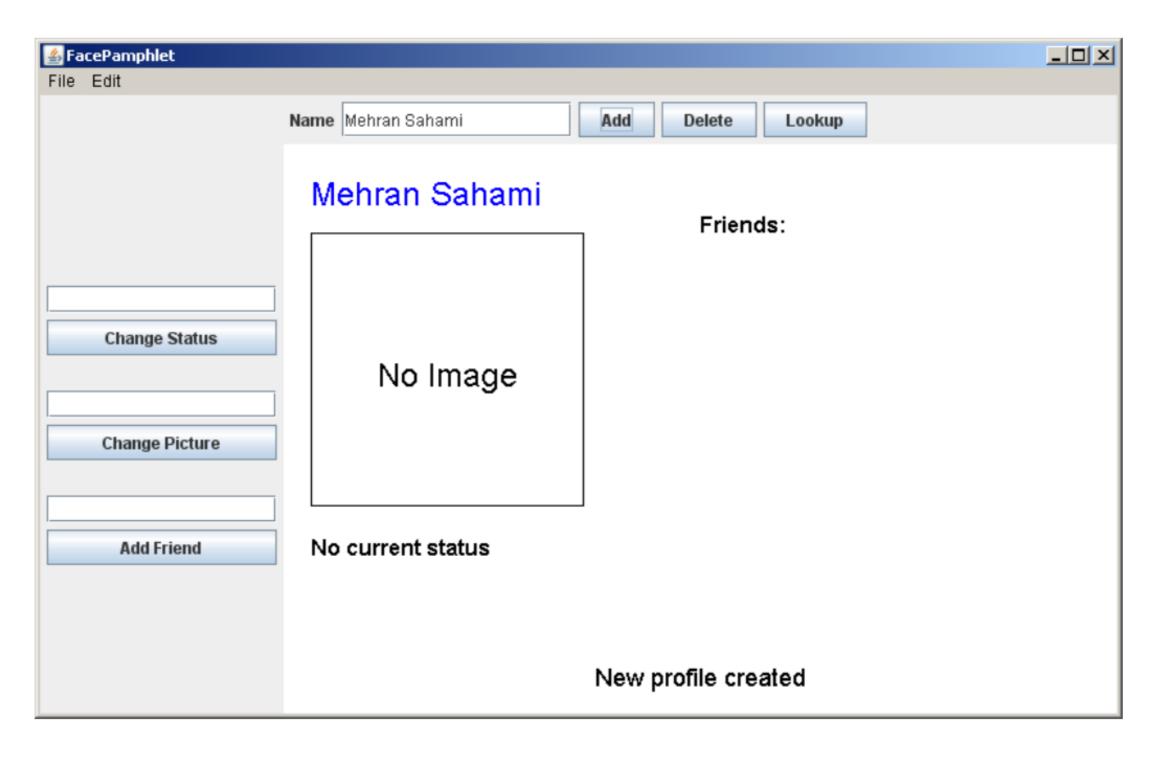
the program

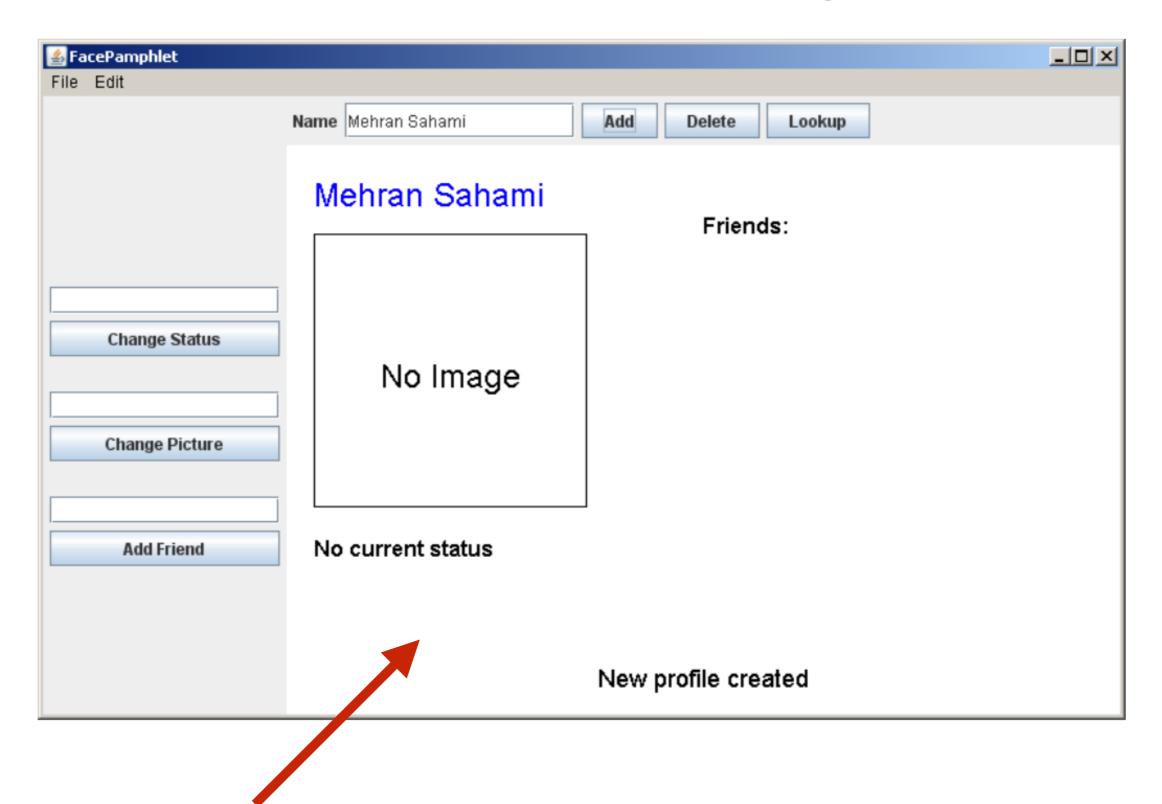


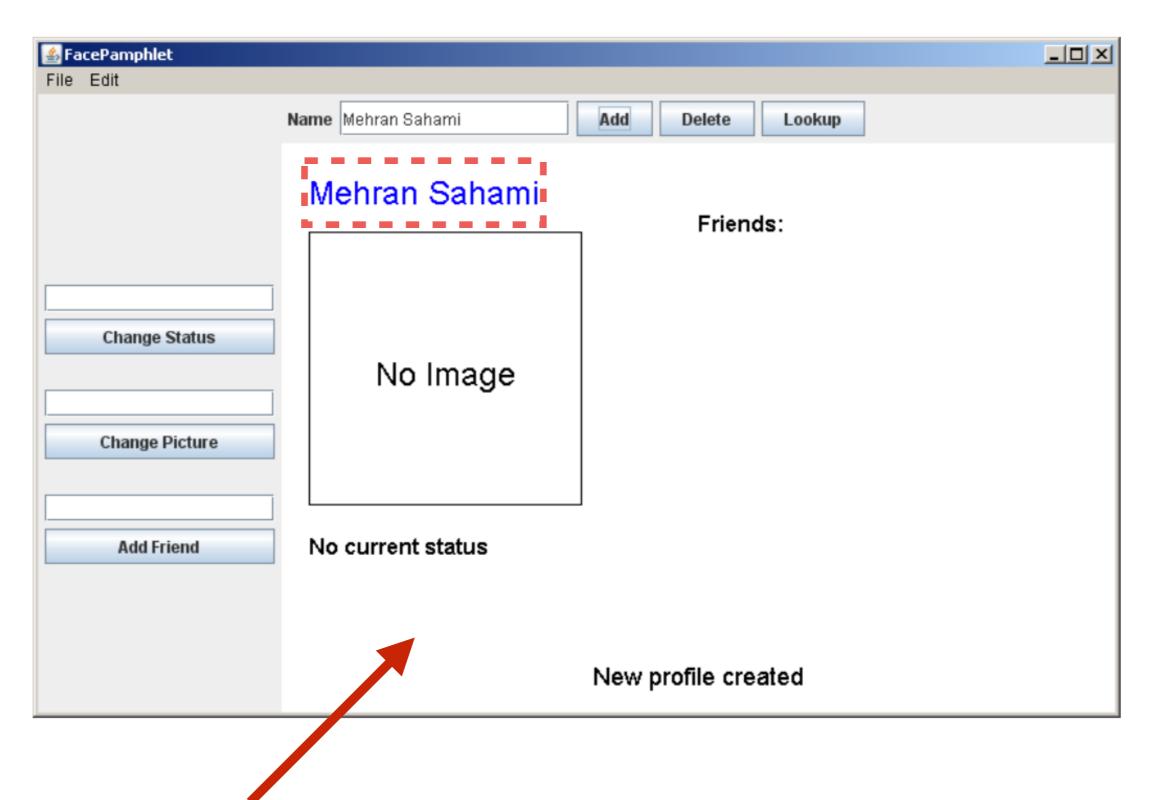


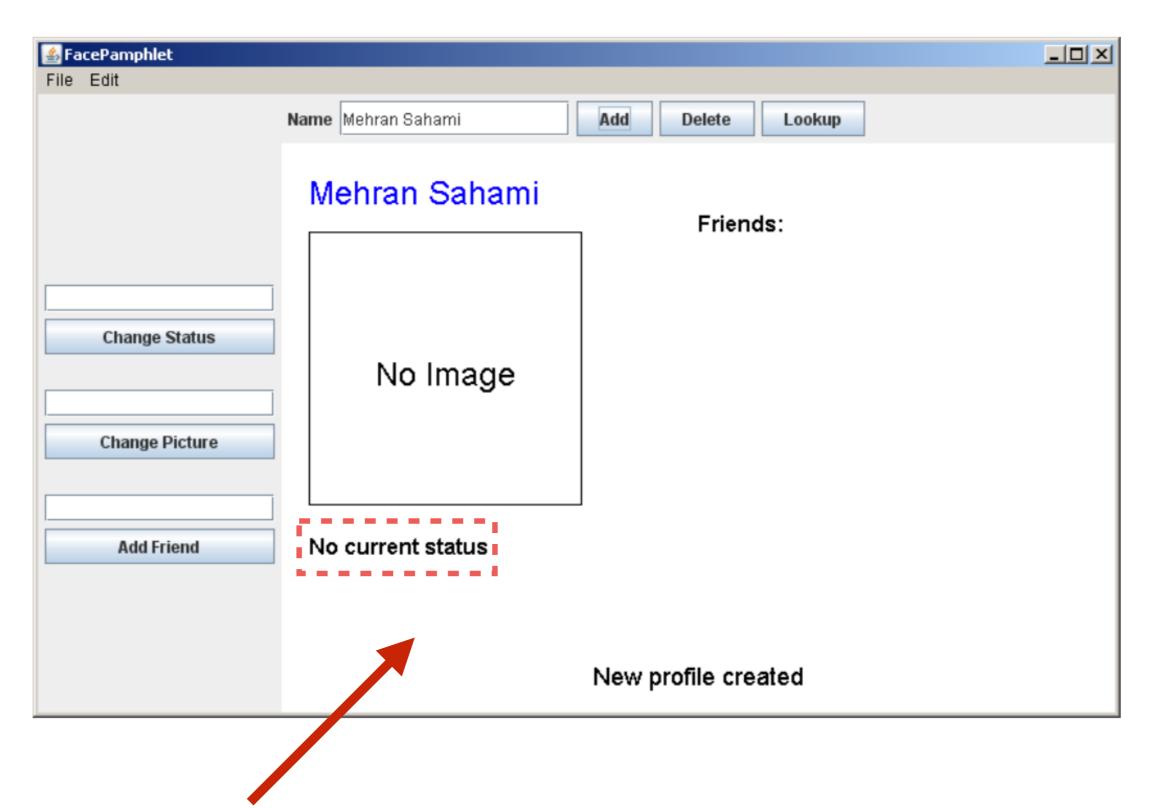


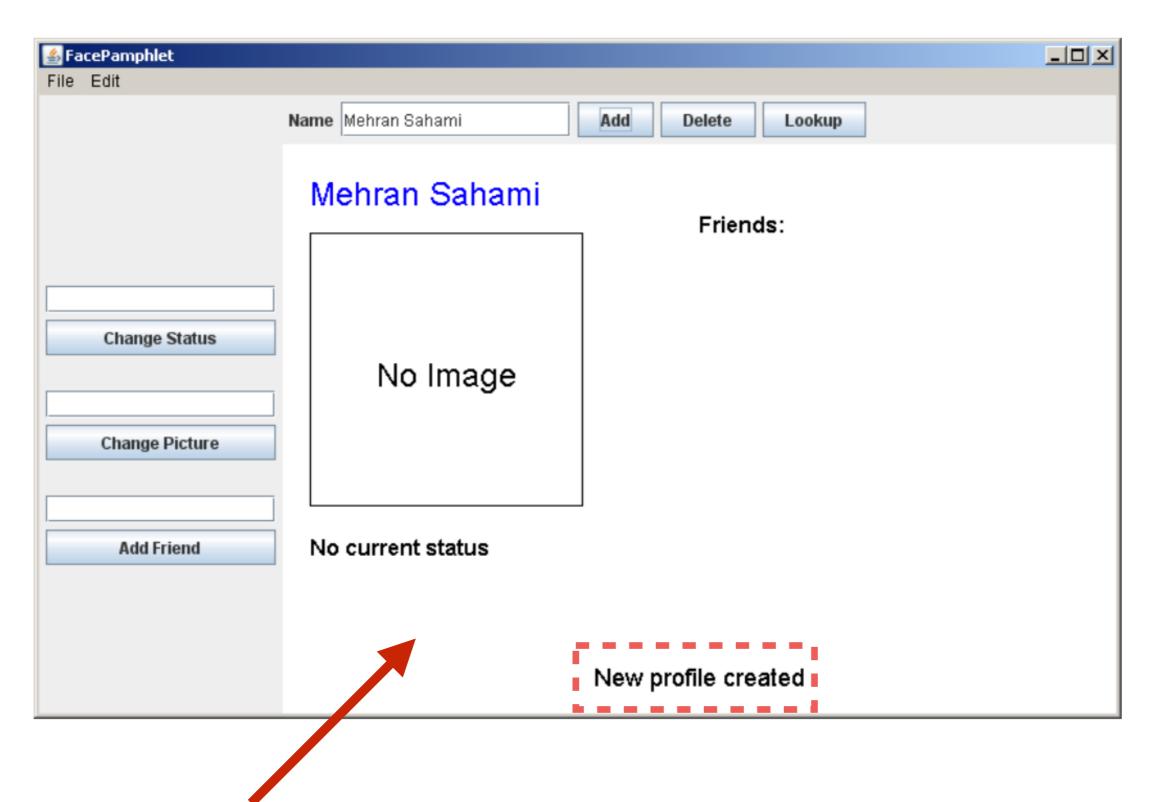


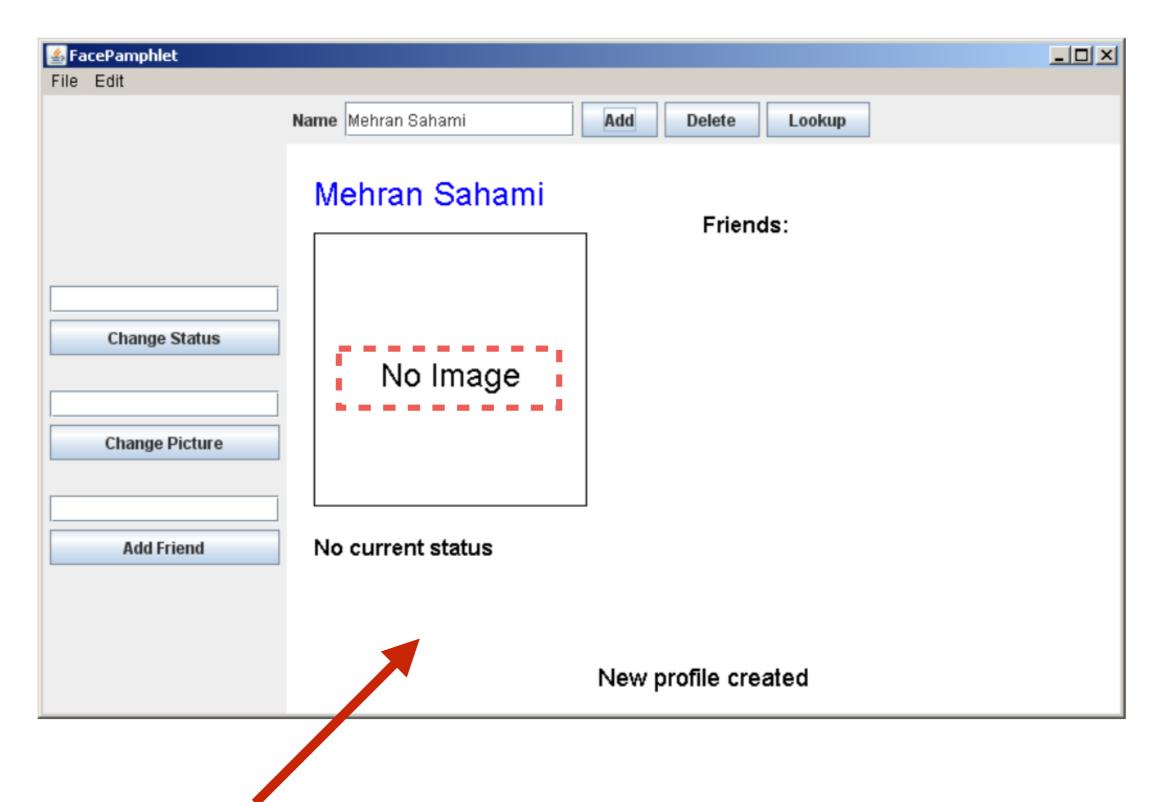


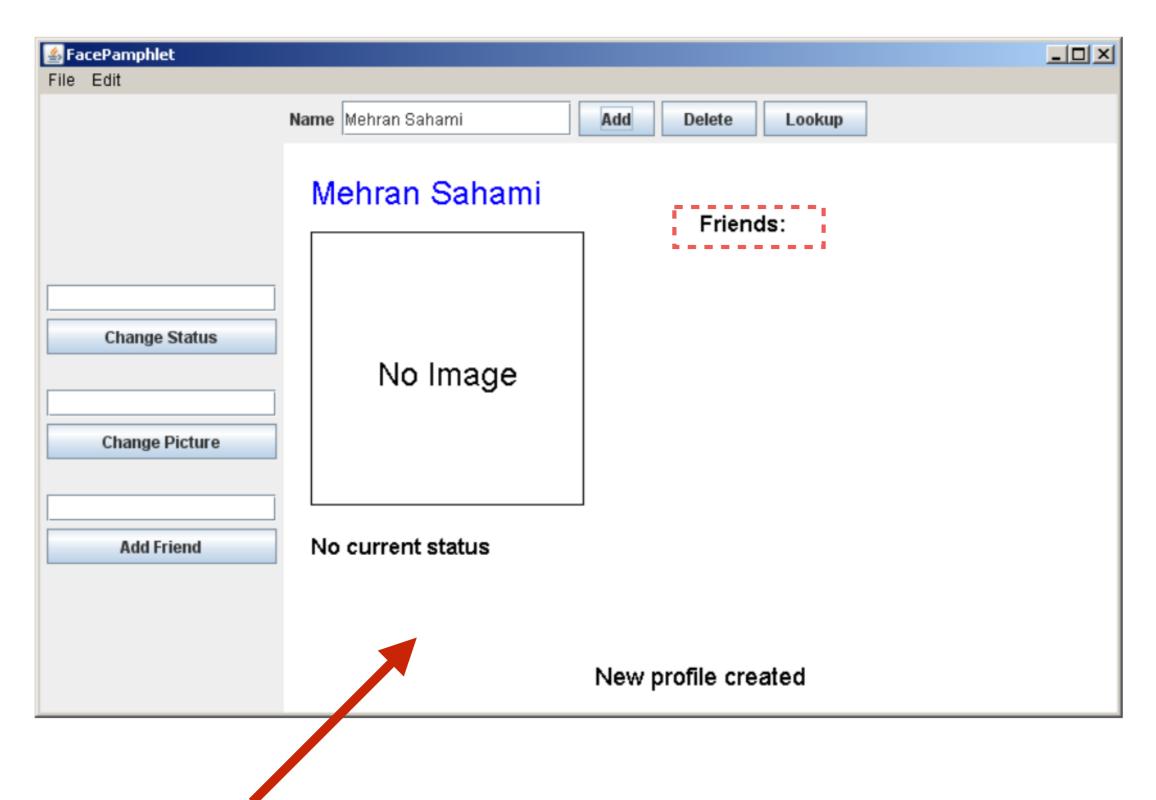


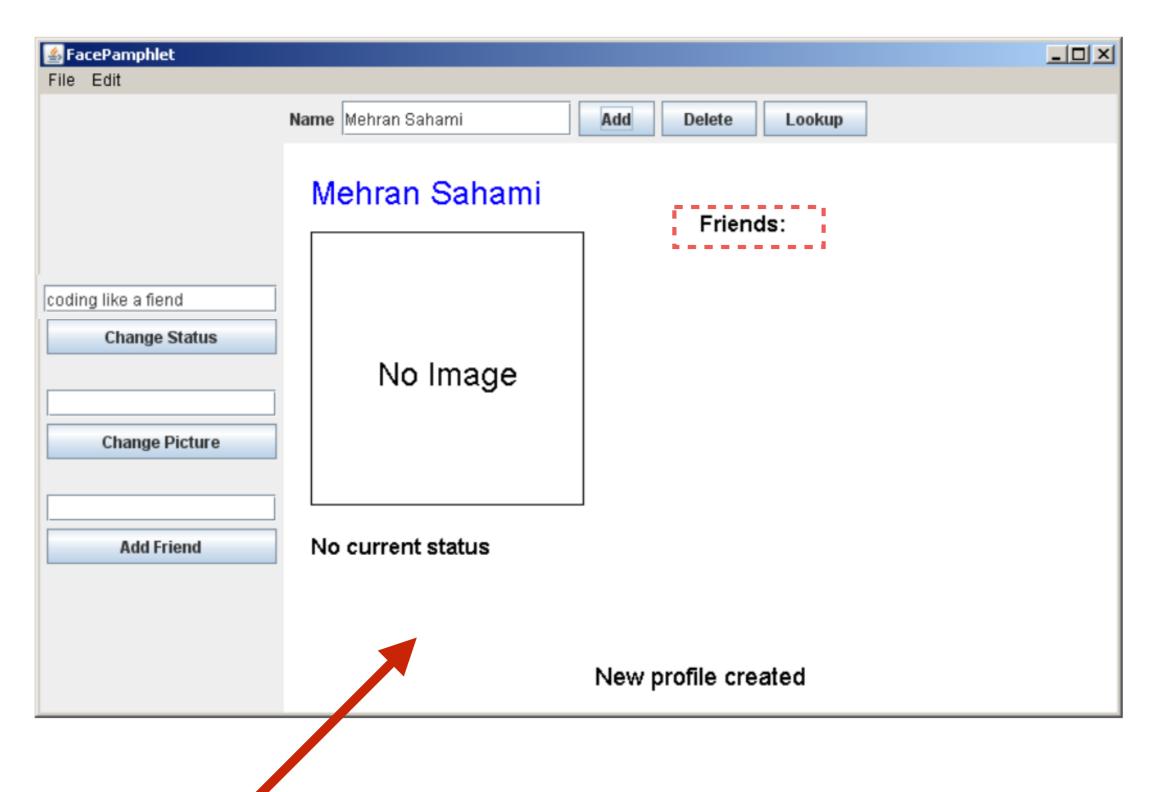


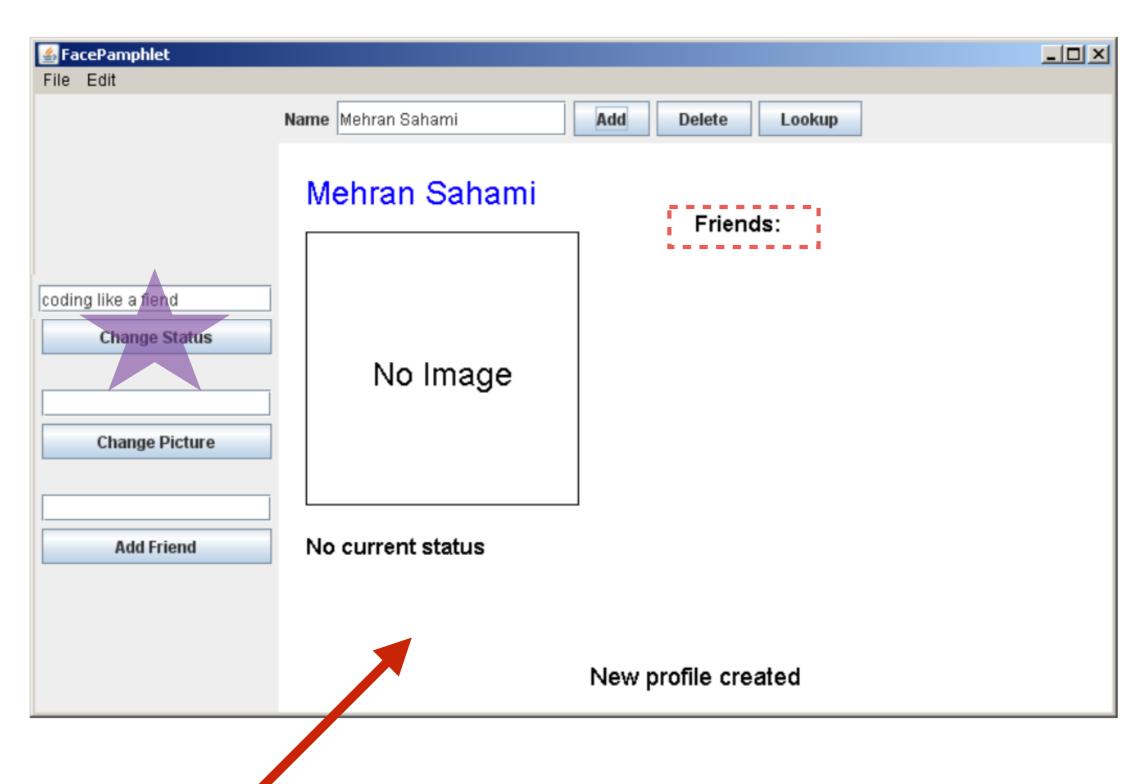






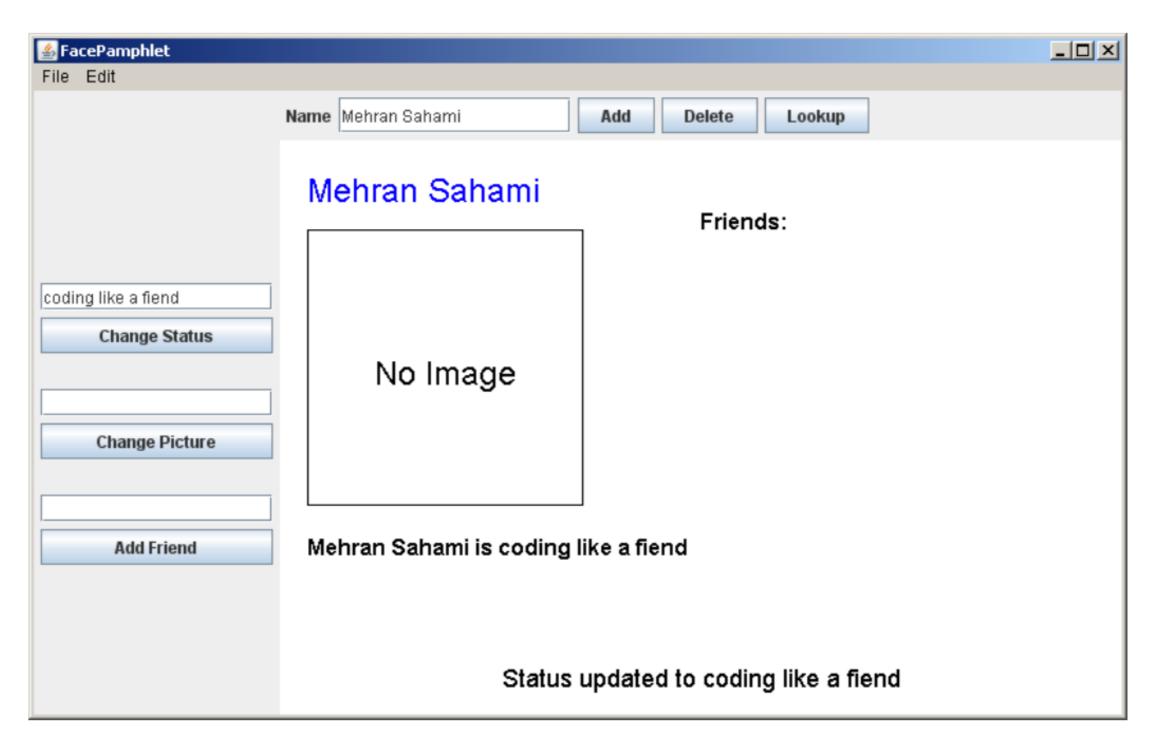






FacePamphletCanvas

Change a picture



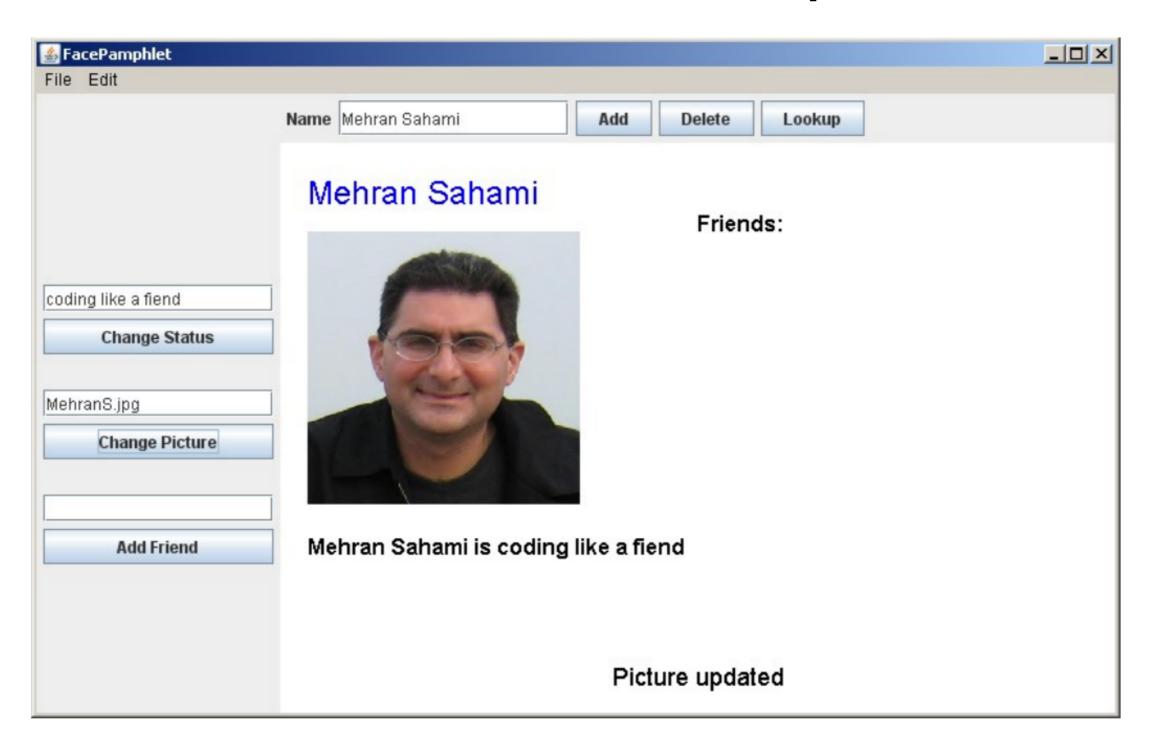
Change a picture



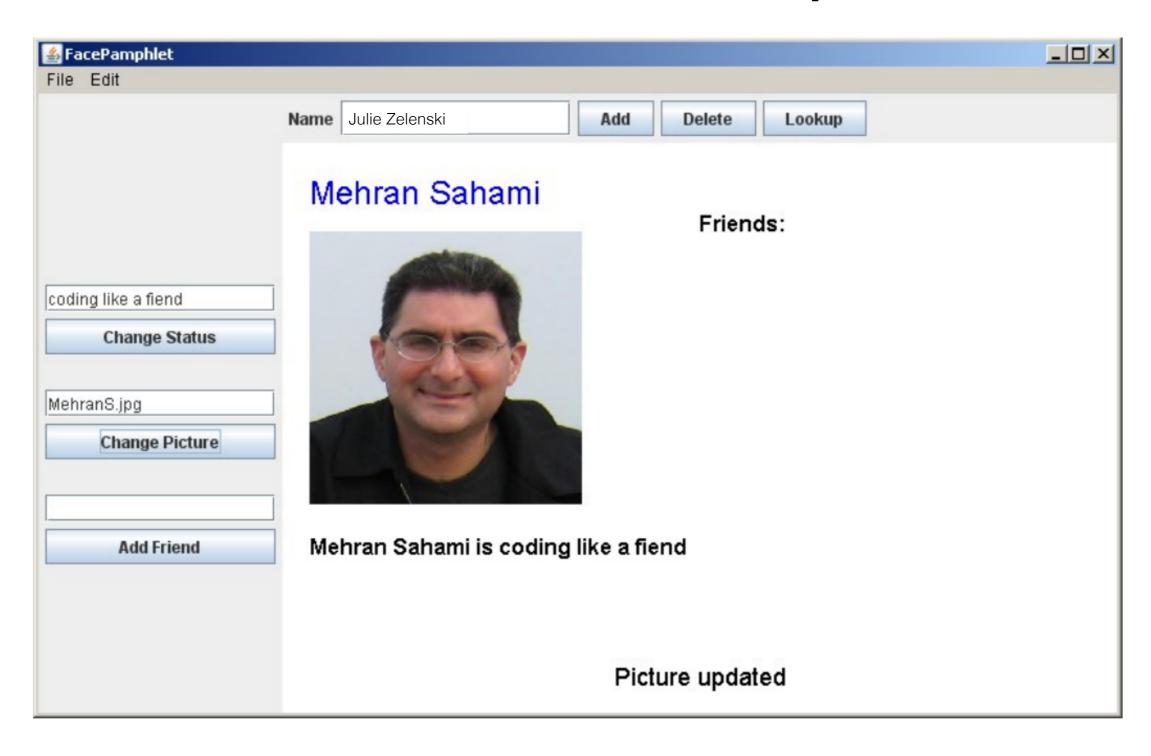
Change a picture



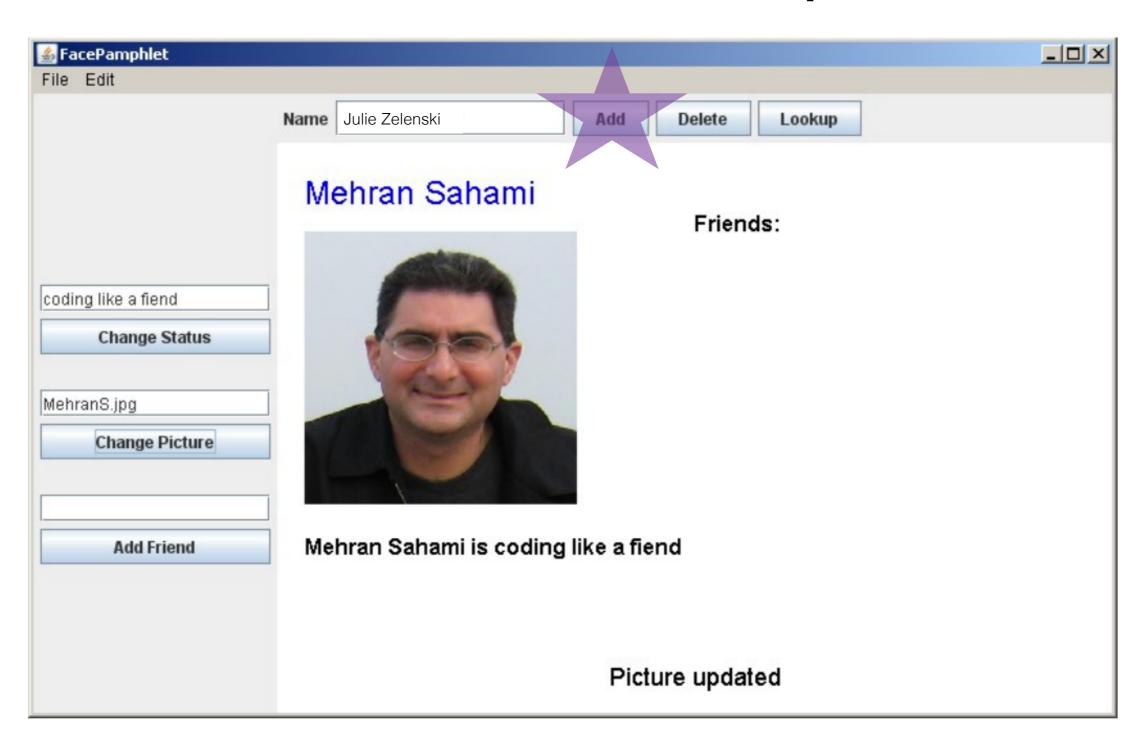
Create another profile



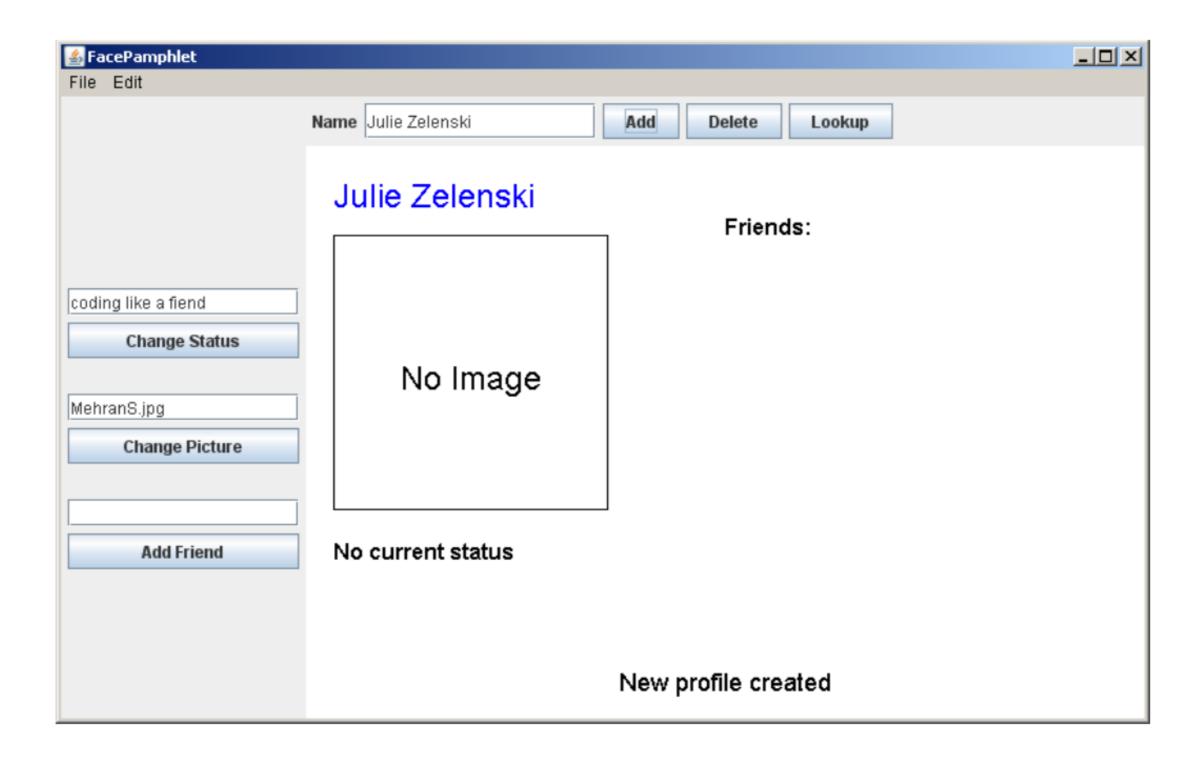
Create another profile



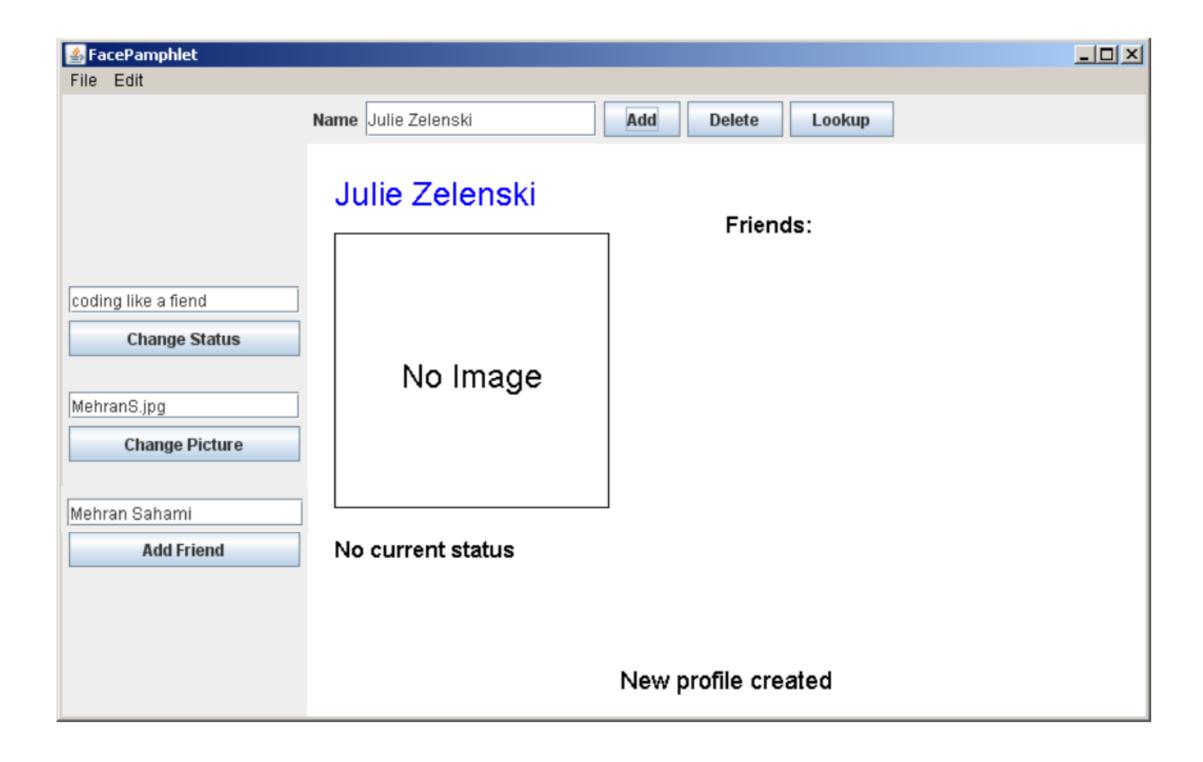
Create another profile



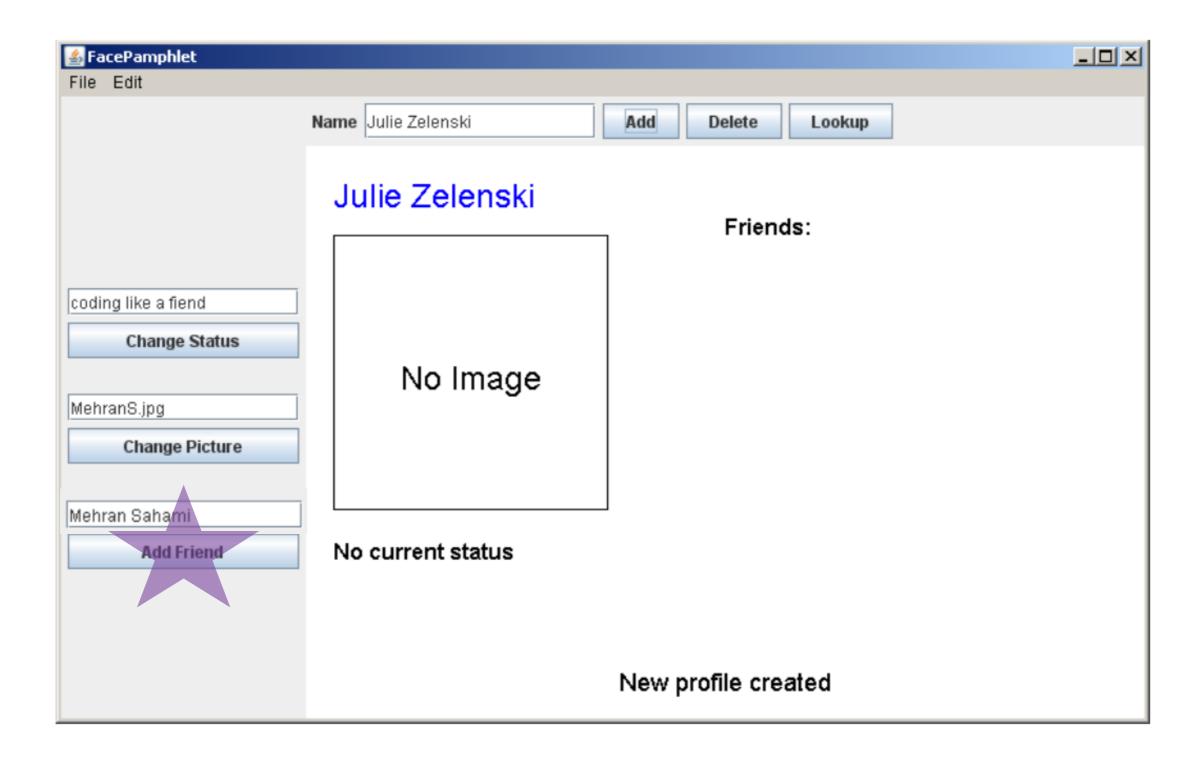
Add a friend

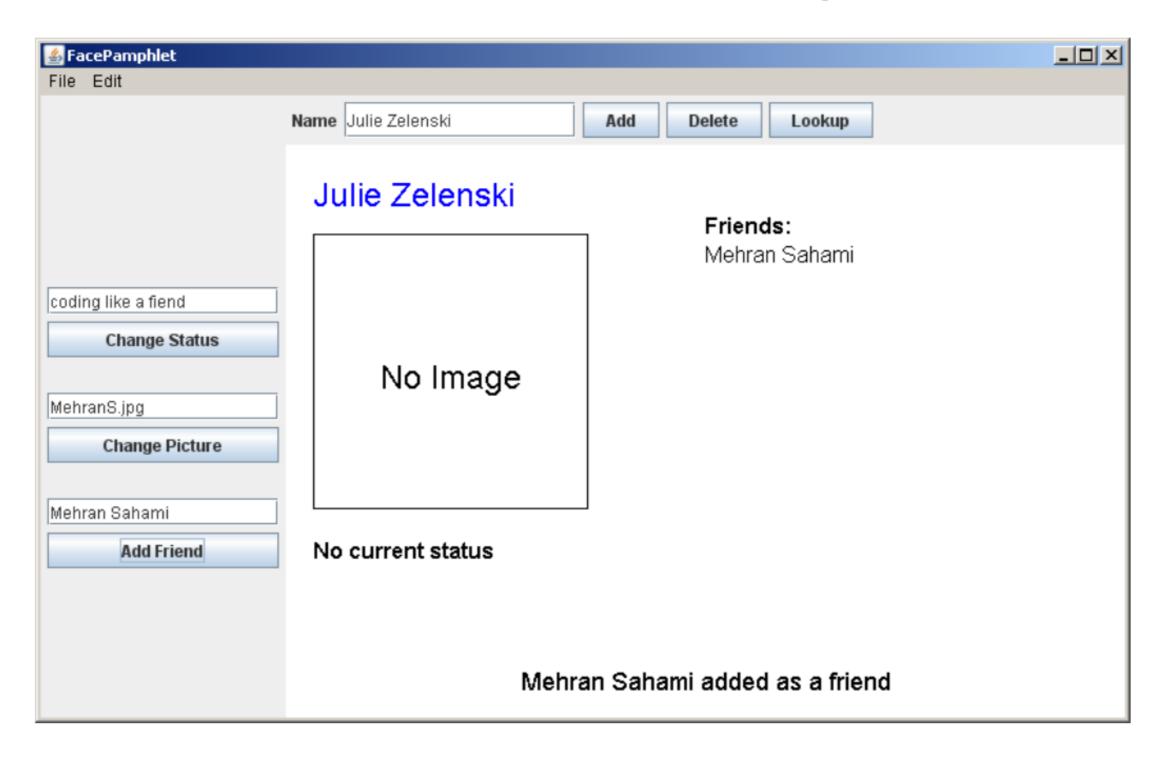


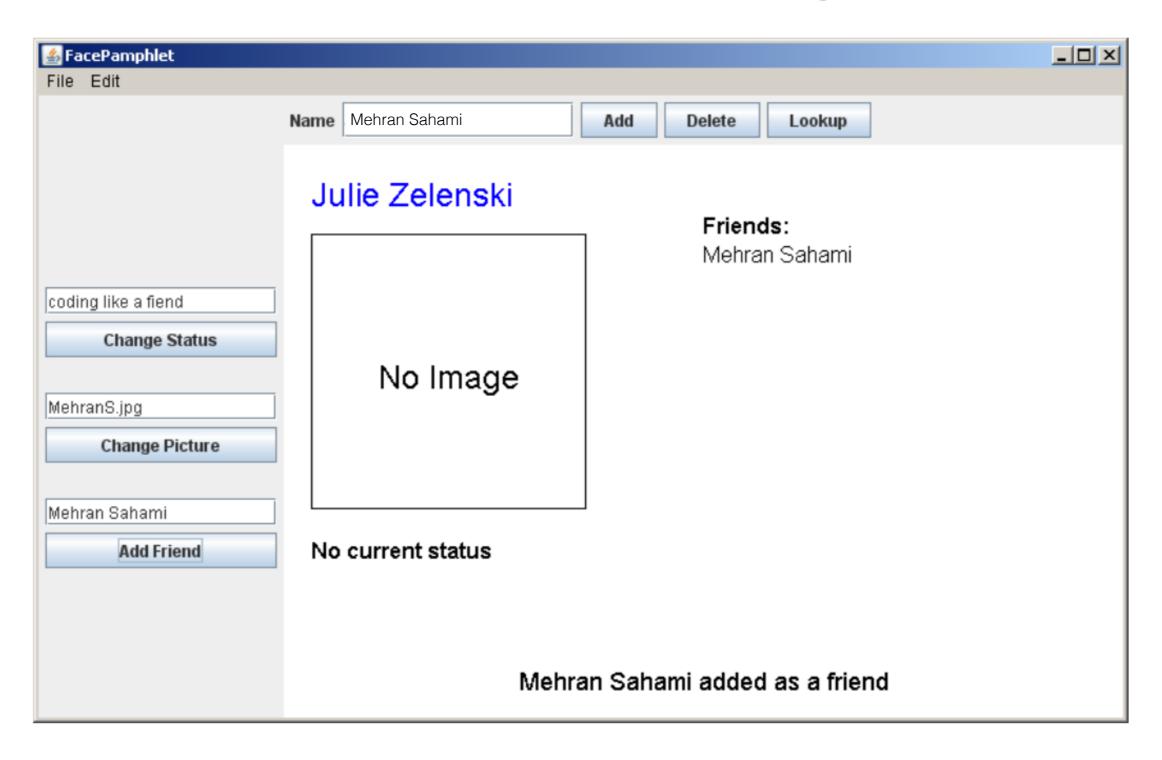
Add a friend



Add a friend









Delete a profile

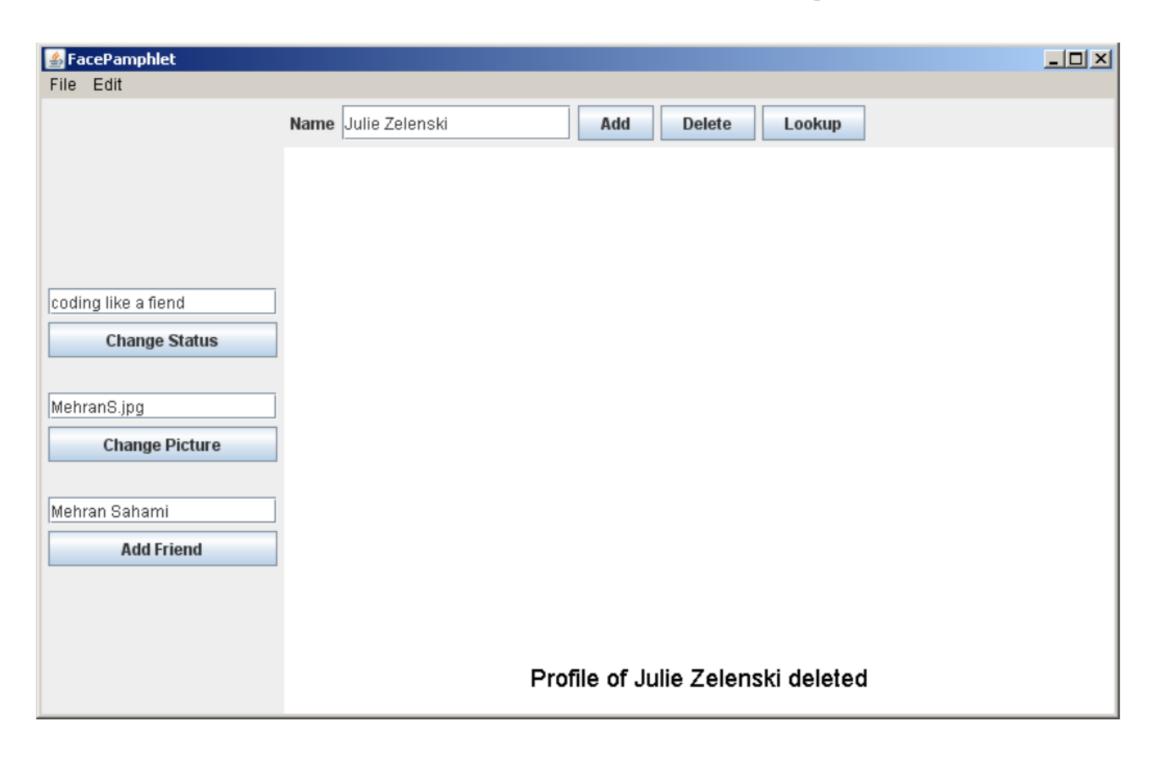


Delete a profile

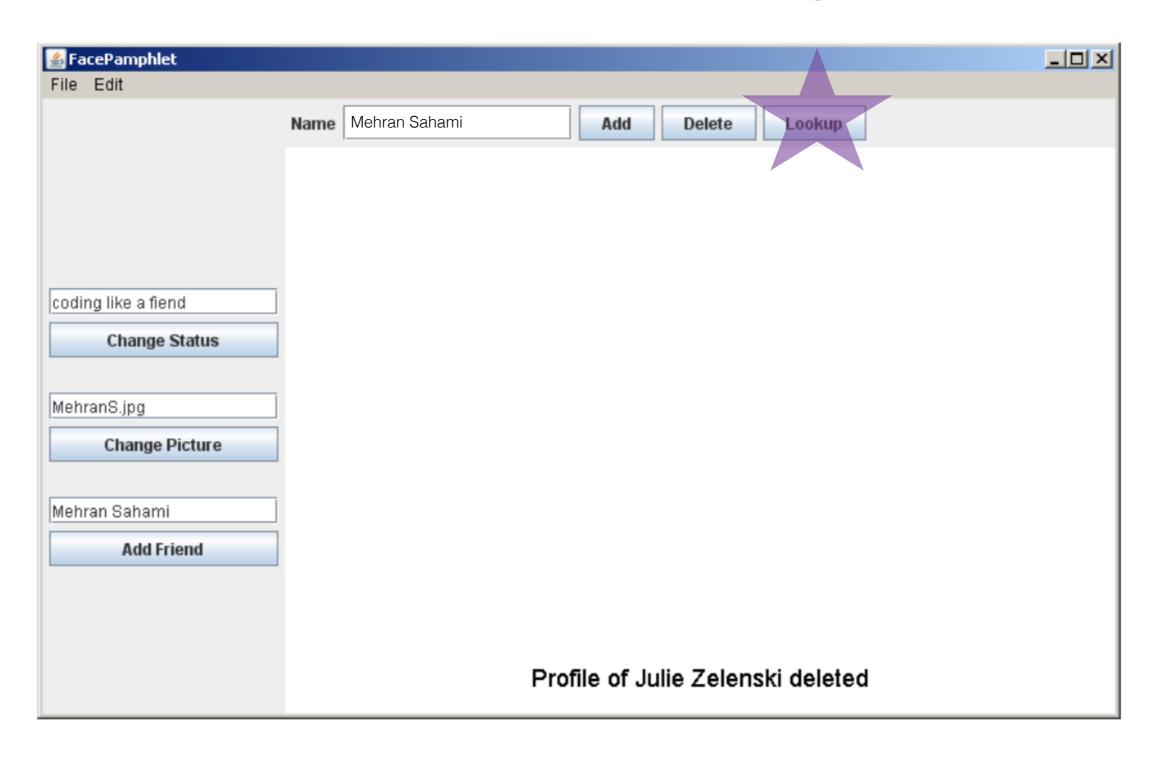


Delete a profile

















give get give get give get give get

ABCDEFGHIJKLMN OPQRSTVWXYZ





: 12395676	9 1: 10010	0(239-) 0190	
MEMO	Lunch with friends	John Doe	
Your Bank 456 Main St Anywhere US	10111	191.0	
Eight	and 15/100	DO	LLARS
PAY TO THE ORDER OF	The Sandwich Shop	s 8.1	5
John Doe 123 Main St Anywhere US	10111	Date 01/01/200	

ing

error checking!

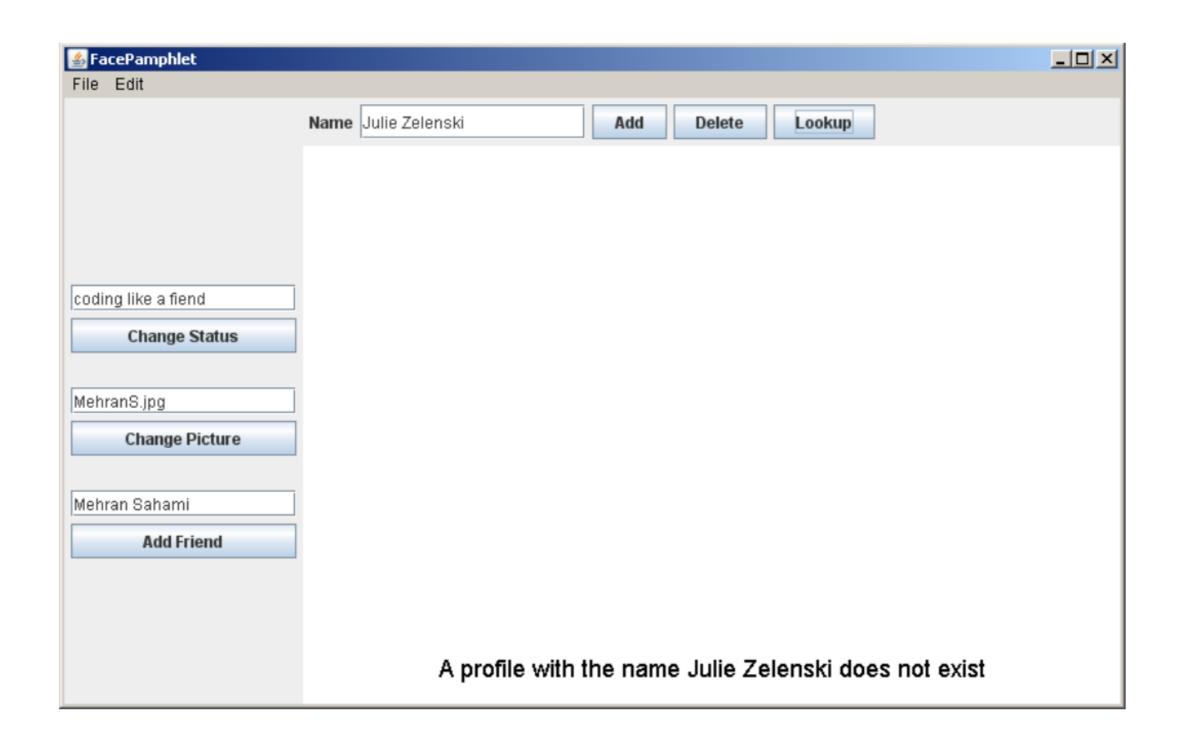




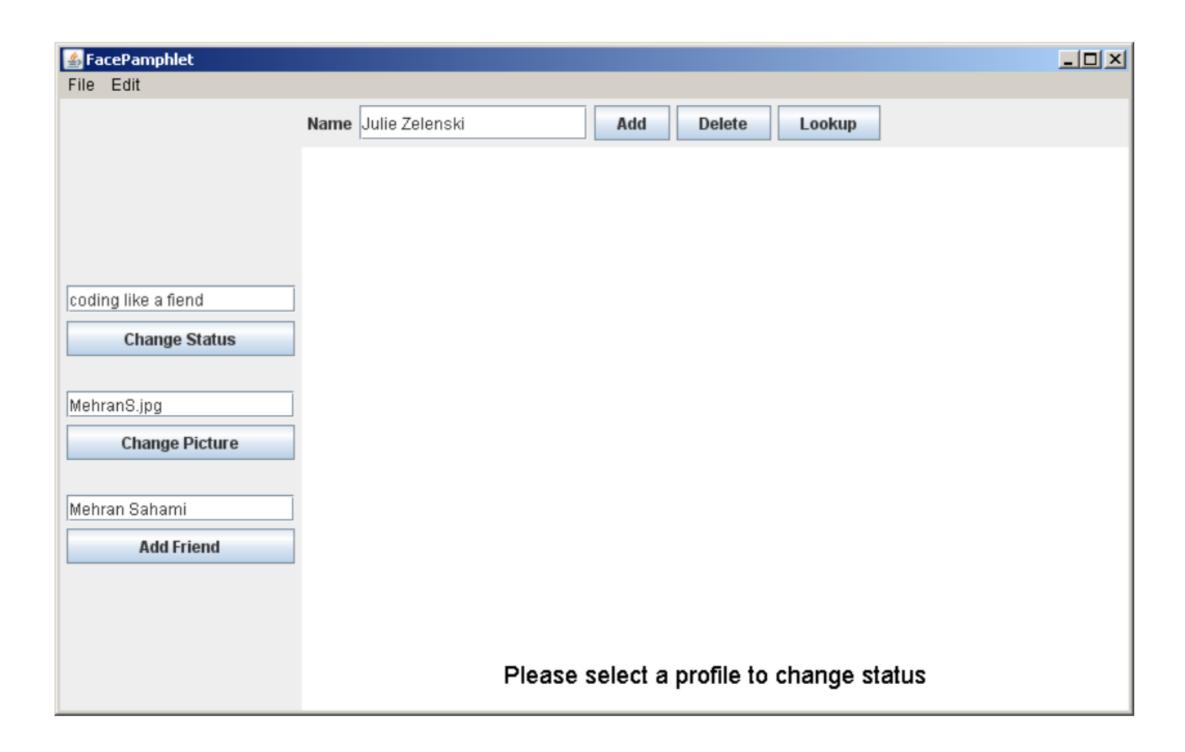












starter classes

• FacePamphletConstants.java — This interface is provided for you and defines a set of constants that you can use in the rest of the program simply by having your classes implement the FacePamphletConstants interface, as they do in the starter files.

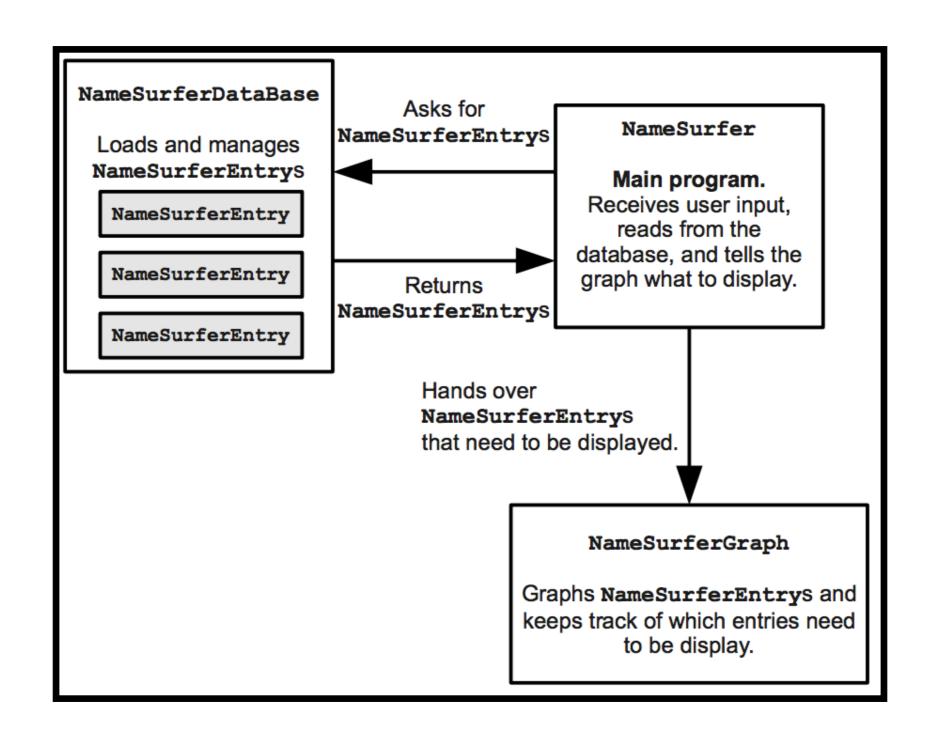
- FacePamphletConstants.java This interface is provided for you and
 defines a set of constants that you can use in the rest of the program simply by
 having your classes implement the FacePamphletConstants interface, as they do in
 the starter files.
- FacePamphlet.java This is the main program class that ties together the application. It has the responsibility for creating the other objects and for responding to the interactors in the program.

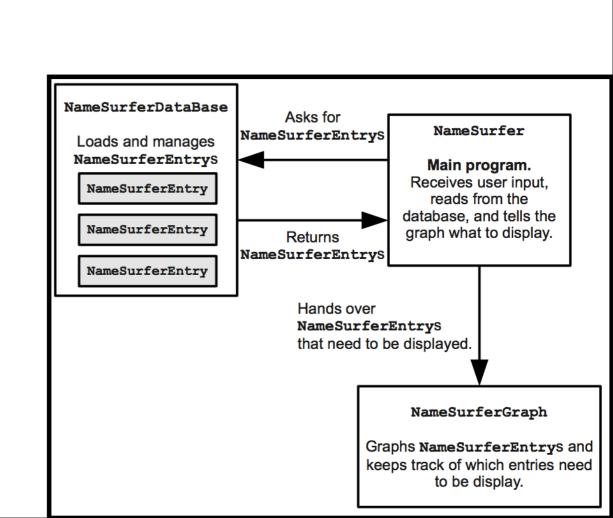
- FacePamphletConstants.java This interface is provided for you and
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- FacePamphletCanvas.java This class is a subclass of GCanvas that displays profiles as well as Application Messages on the display canvas. This canvas does not need to worry about updating the display as a result of window resizing. You got enough practice with that in NameSurfer, so you don't need to worry about that again here (unless you'd like to add it as a program extension).

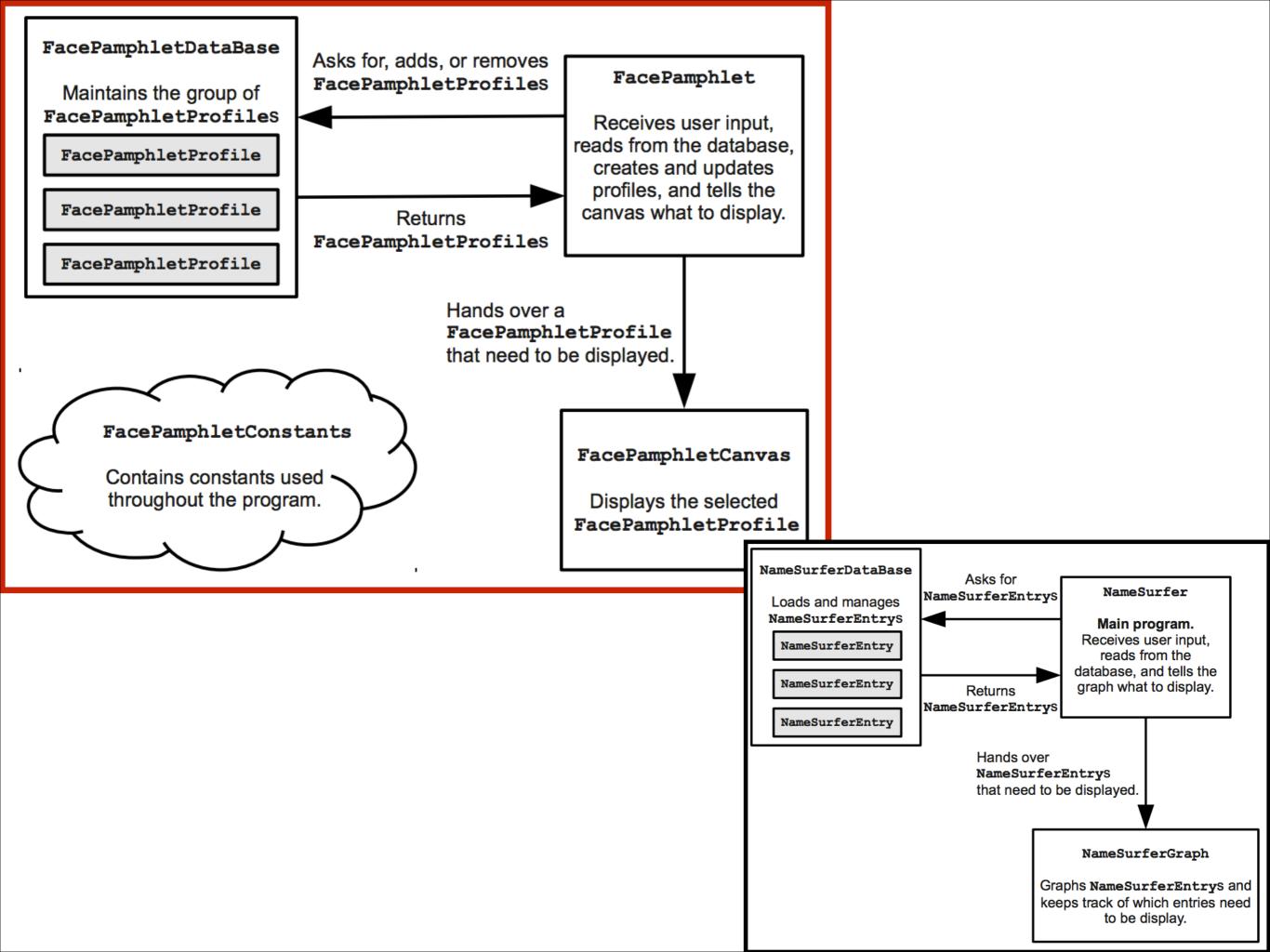
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- FacePamphletProfile.java This class should encapsulate all the information for a single profile in the social network. Given a FacePamphletProfile object, you can find out that profile's name, associated image (or lack thereof), associated status (or lack thereof), and the list of names of friends for that profile.

- FacePamphletConstants.java This interface is provided for you and
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- FacePamphletDatabase.java This class keeps track of all the profiles in the FacePamphlet social network. Note that this class is completely separate from the user interface. It is responsible for managing profiles (adding, deleting, looking-up).

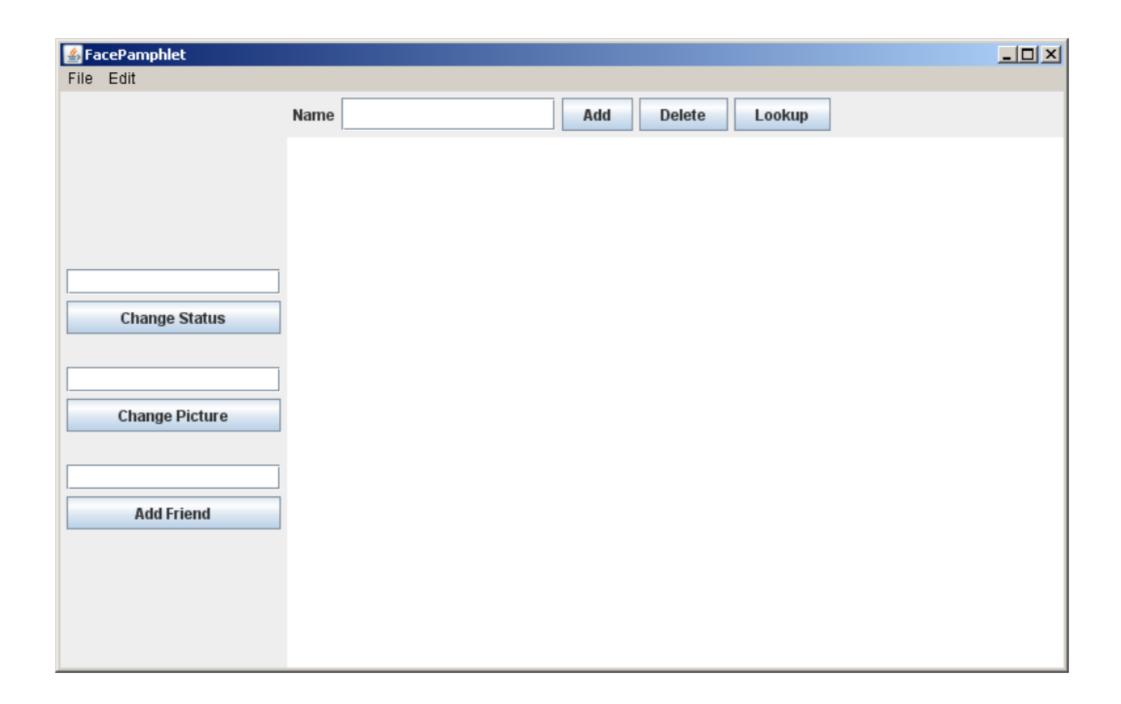
FacePamphlet vesus NameSurfer





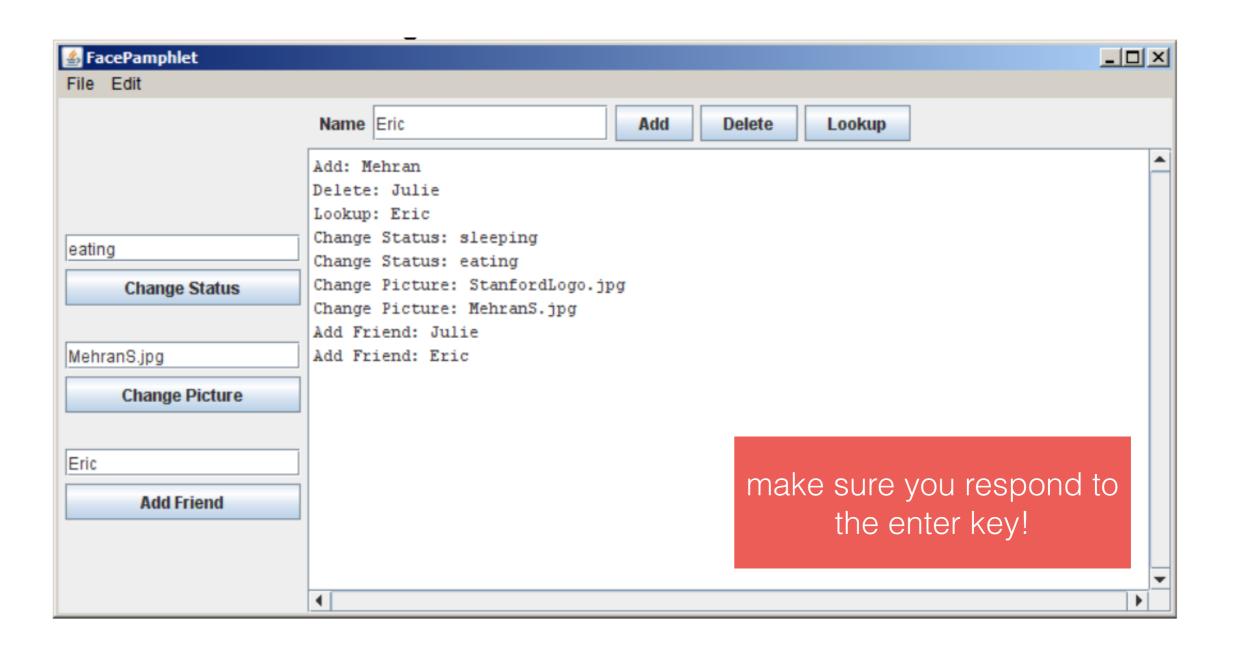


Milestone 1



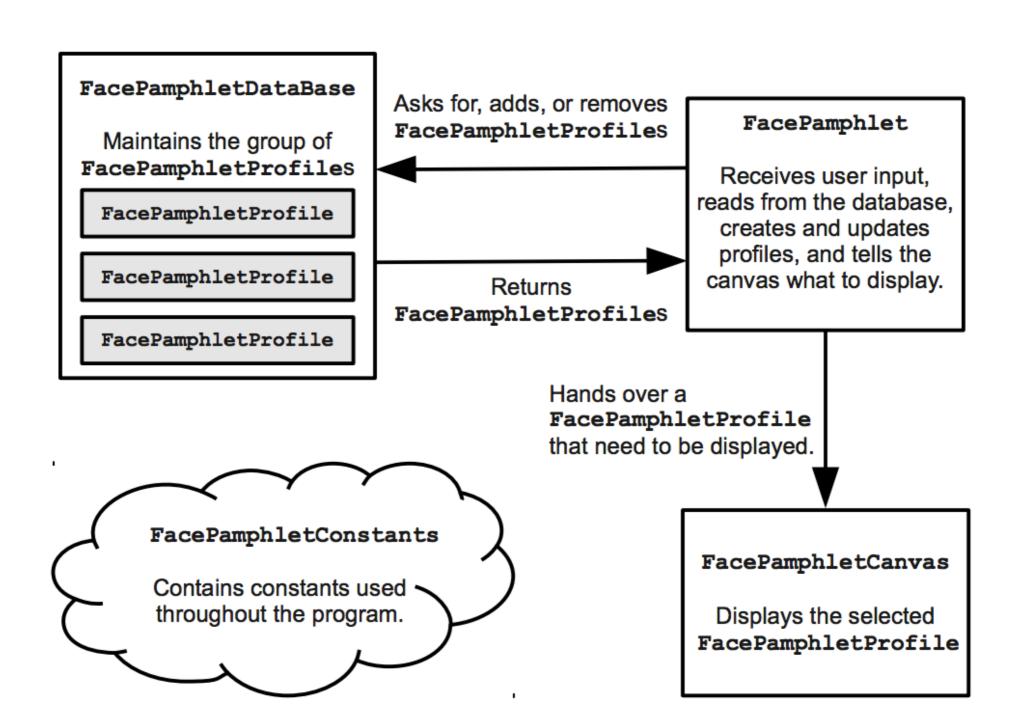
add interactors

Milestone 1.5

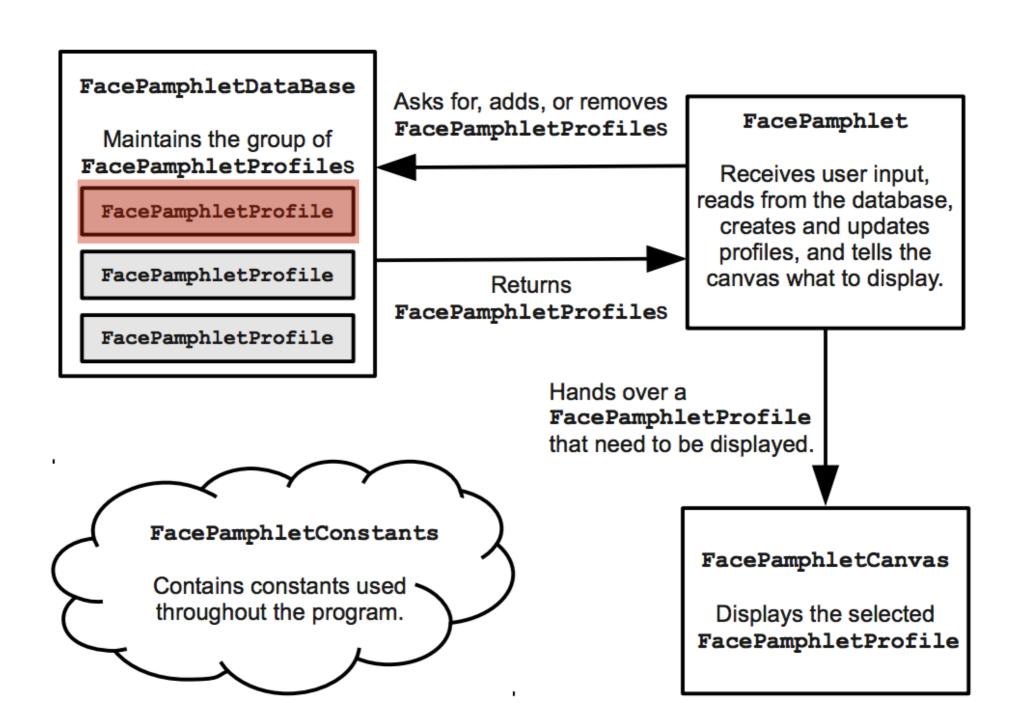


respond to interactors

Milestone 2



Milestone 2





public String getName()



public String getName()

String



public String getName()

public GImage getImage()

FacePamphlet

public void setImage(GImage image)

Name Mehran Sahami

Mehran Sahami

Friends:
Julie Zelenski

Coding like a fiend

Change Status

Mehran Sahami

Mehran Sahami is coding like a fiend

String

(instance variables)

_ D X

public String getName()
public GImage getImage()
public void setImage(GImage image)

_ D X FacePamphlet File Edit Name Mehran Sahami Add Delete Lookup Mehran Sahami Friends: Julie Zelenski coding like a fiend Change Status MehranS.jpg Change Picture Mehran Sahami Mehran Sahami is coding like a fiend Add Friend

String

GImage

```
public String getName()

public GImage getImage()

public void setImage(GImage image)

public String getStatus()

public void setStatus(String status)
```



String

GImage

```
public String getName()

public GImage getImage()

public void setImage(GImage image)

public String getStatus()

public void setStatus(String status)
```



String

GImage

String

```
public String getName()
public GImage getImage()
public void setImage(GImage image)
public String getStatus()
public void setStatus(String status)
public boolean addFriend(String friend)
public boolean removeFriend(String friend)
public Iterator<String> getFriends()
FacePamphlet
                                        _ O X
```



String

GImage

String

```
public String getName()
public GImage getImage()
public void setImage(GImage image)
public String getStatus()
public void setStatus(String status)
public boolean addFriend(String friend)
public boolean removeFriend(String friend)
public Iterator<String> getFriends()
FacePamphlet
                                        _ O X
File Edit
```



String

GImage

String

3.3

```
public String getName()
public GImage getImage()
public void setImage(GImage image)
public String getStatus()
public void setStatus(String status)
public boolean addFriend(String friend)
public boolean removeFriend(String friend)
public Iterator<String> getFriends()
FacePamphlet
                                        _ O X
File Edit
```

Delete

Friends: Julie Zelenski

Lookup

Name Mehran Sahami

coding like a fiend

MehranS.jpg

Mehran Sahami

Change Status

Change Picture

Add Friend

Mehran Sahami

Mehran Sahami is coding like a fiend

String
GImage

String

3.

```
Iterator<String> it = profile.getFriends();
```

```
Iterator<String> it = profile.getFriends();
```

```
Iterator<String> it = profile.getFriends();
while (it.hasNext()) {
```

```
Iterator<String> it = profile.getFriends();
while (it.hasNext()) {
   String friend = it.next();
```

```
Iterator<String> it = profile.getFriends();
while (it.hasNext()) {
   String friend = it.next();
   // do something with that friend's name
```

```
Iterator<String> it = profile.getFriends();
while (it.hasNext()) {
   String friend = it.next();
   // do something with that friend's name
}
```

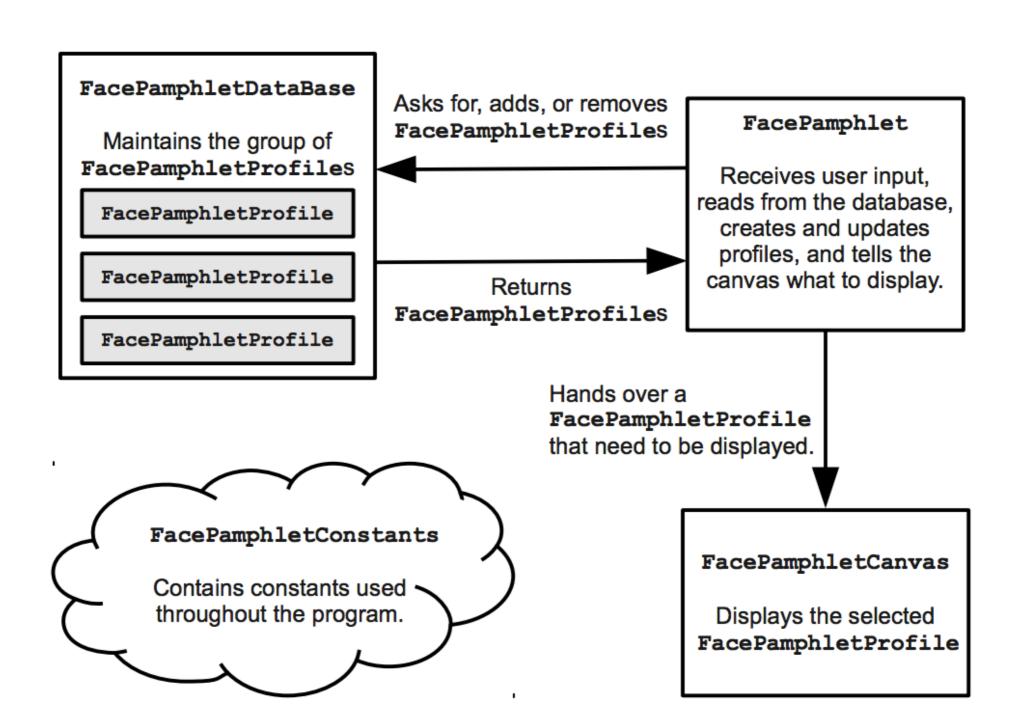
```
Iterator<String> it = profile.getFriends();
while (it.hasNext()) {
   String friend = it.next();
   // do something with that friend's name
}
```



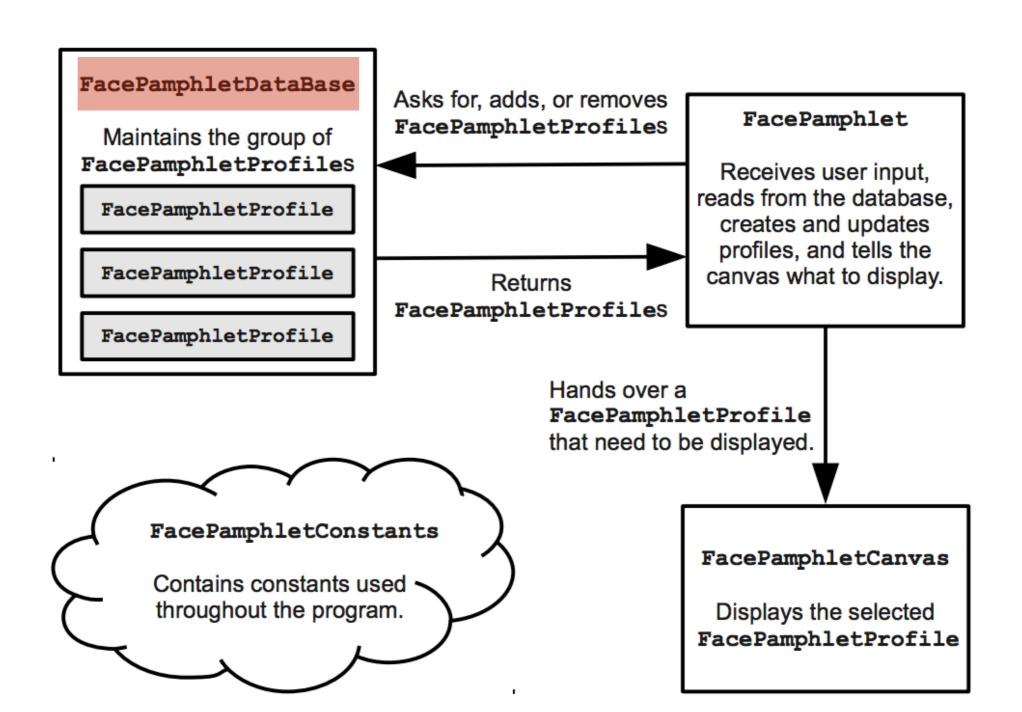
```
Iterator<String> it = profile.getFriends();
while (it.hasNext()) {
   String friend = it.next();
   // do something with that friend's name
}
```



Milestone 3



Milestone 3



class: FacePamphletDatabase

FacePamphletDataBase

Maintains the group of
FacePamphletProfiles

FacePamphletProfile

FacePamphletProfile

Returns
FacePamphletProfile

Returns
FacePamphletProfile

public void addProfile(FacePamphletProfile profile)

FacePamphletDataBase

Maintains the group of
FacePamphletProfiles

FacePamphletProfile

FacePamphletProfile

Returns
FacePamphletProfile

- public void addProfile(FacePamphletProfile profile)
- public FacePamphletProfile getProfile(String name)

FacePamphletDataBase

Maintains the group of FacePamphletProfiles

FacePamphletProfile

FacePamphletProfile

FacePamphletProfile

FacePamphletProfile

Returns

FacePamphletProfiles

- public void addProfile(FacePamphletProfile profile)
- public FacePamphletProfile getProfile(String name)
- public void deleteProfile(String name)

FacePamphletDataBase

Maintains the group of
FacePamphletProfiles

FacePamphletProfile

FacePamphletProfile

FacePamphletProfile

FacePamphletProfile

Returns

FacePamphletProfiles

- public void addProfile(FacePamphletProfile profile)
- public FacePamphletProfile getProfile(String name)
- public void deleteProfile(String name)
- public boolean containsProfile(String name)

FacePamphletProfile

FacePamphletProfile

FacePamphletProfile

FacePamphletProfile

FacePamphletProfile

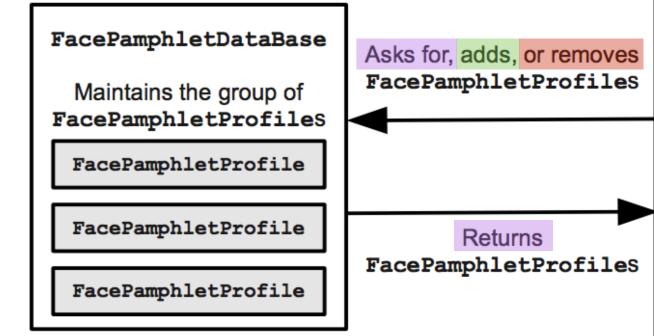
FacePamphletProfile

FacePamphletProfile

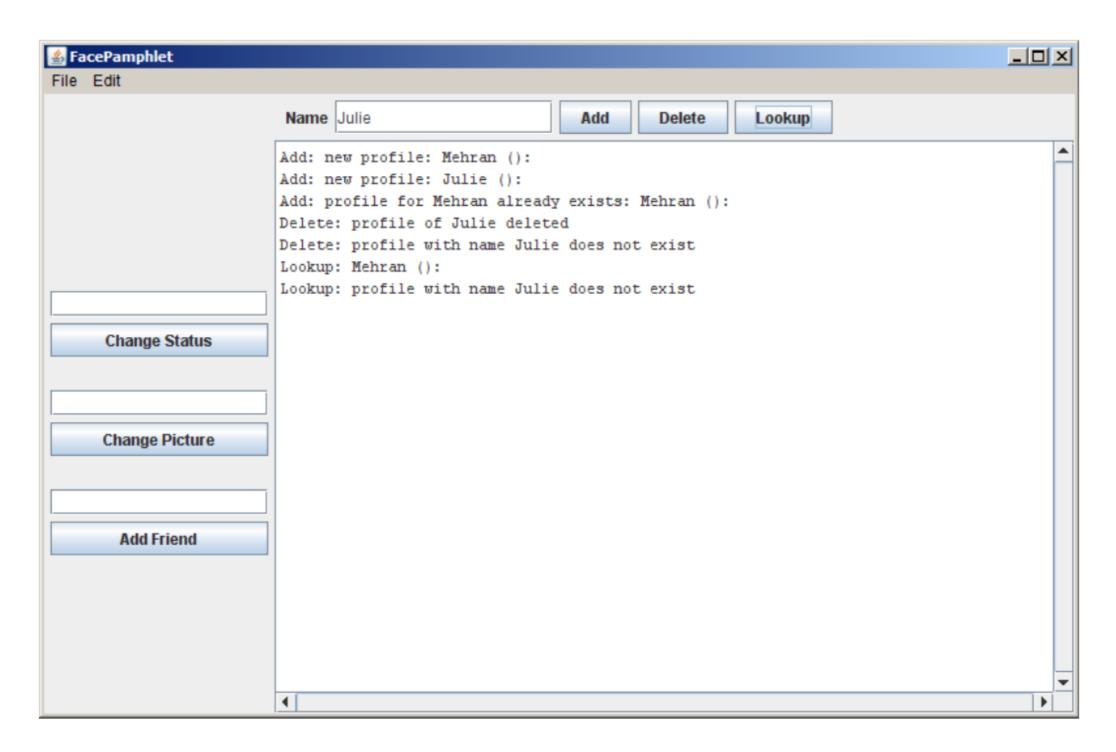
FacePamphletProfile

- public void addProfile(FacePamphletProfile profile)
- public FacePamphletProfile getProfile(String name)
- public void deleteProfile(String name)

public boolean containsProfile(String name)

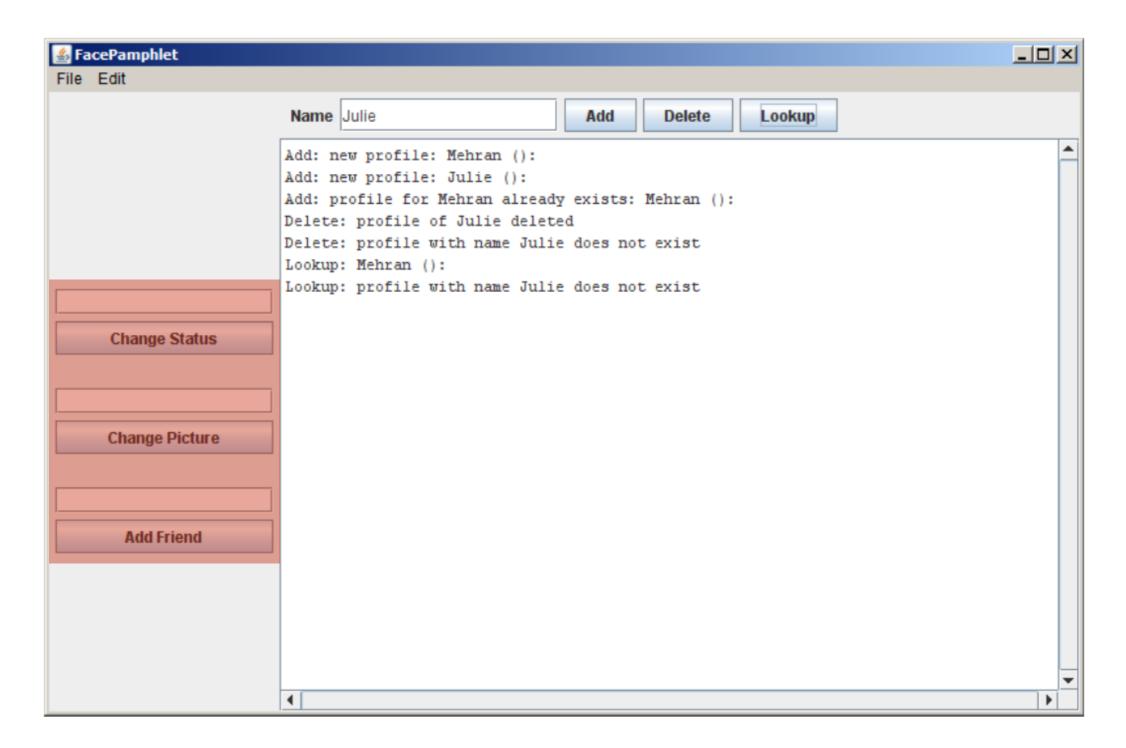


Milestone 4



link interactors to other classes

Milestone 4



link interactors to other classes

Change Status

Change Status

• Get the status from the JTextBox

Change Status

- Get the status from the JTextBox
- Use .setStatus on the current profile to set it to the new text

Change Picture

```
GImage image = null;

try {
   image = new GImage(filename);
} catch (ErrorException ex) {
   // Code that is executed if the filename
   // cannot be opened.
}
```

Change Picture

```
GImage image = null;

try {
   image = new GImage(filename);
} catch (ErrorException ex) {
   // Code that is executed if the filename
   // cannot be opened.
}
```

• Use .setPicture on the current profile to set it to the new picture

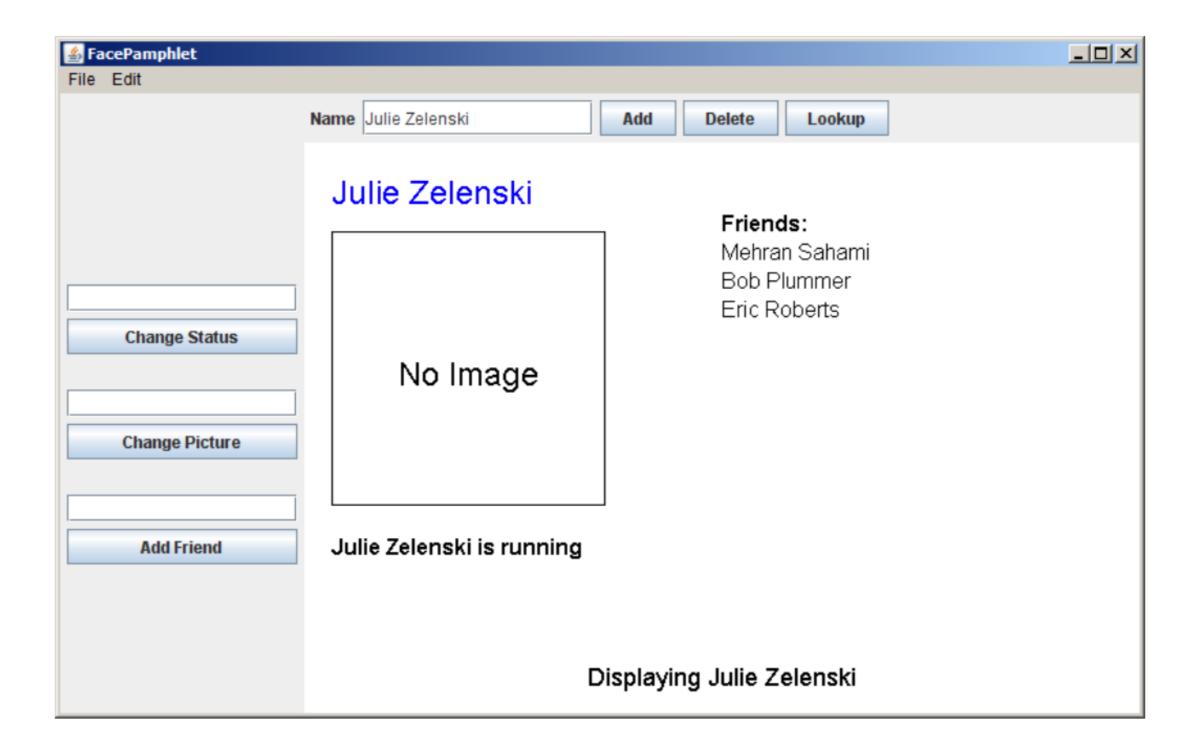
• Get the friend name from the JTextBox

- Get the friend name from the JTextBox
- Make sure that it's a valid user!

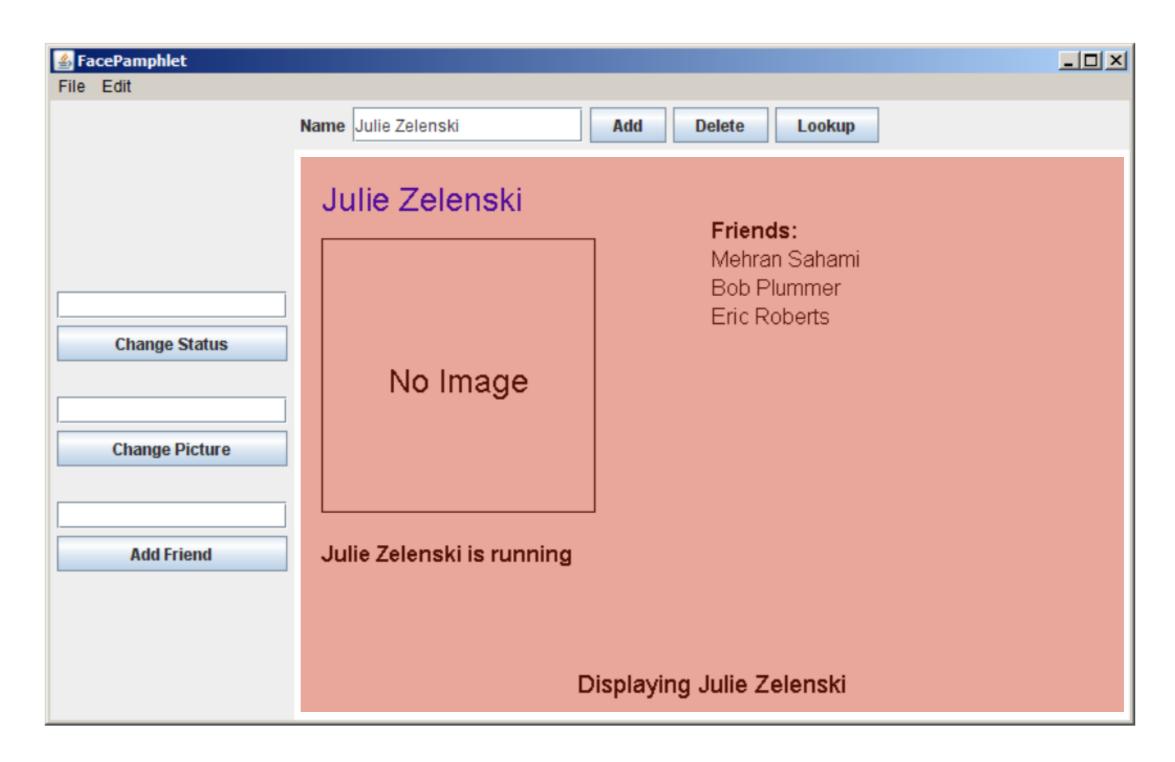
- Get the friend name from the JTextBox
- Make sure that it's a valid user!
- Use .setStatus on the current profile to set it to the new text

FacePamphlet File Edit Name Julie Add Lookup Delete Add: new profile: Mehran (): --> Current profile: Mehran (): Status updated to sleeping --> Current profile: Mehran (sleeping): Picture updated --> Current profile: Mehran (sleeping): Add: new profile: Julie (): sleeping --> Current profile: Julie (): Mehran added as a friend **Change Status** --> Current profile: Julie (): Mehran Lookup: Mehran (sleeping): Julie --> Current profile: Mehran (sleeping): Julie MehranS.jpg Delete: profile of Mehran deleted **Change Picture** --> No current profile Please select a profile to change status --> No current profile Mehran Lookup: Julie (): --> Current profile: Julie (): Add Friend

Milestone 5



Milestone 5



class: FacePamphletConstants

```
/** The width of the application window */
public static final int APPLICATION WIDTH = 800;
/** The height of the application window */
public static final int APPLICATION HEIGHT = 500;
/** Number of characters for each of the text input fields */
public static final int TEXT FIELD SIZE = 15;
/** Text to be used to create an "empty" label to put space
 * between interactors on EAST border of application. Note
this label is not actually the empty string, but rather a single
space */
public static final String EMPTY LABEL TEXT = " ";
/** Name of font used to display the application message at the
 * bottom of the display canvas */
public static final String MESSAGE FONT = "Dialog-18";
/** Name of font used to display the name in a user's profile */
public static final String PROFILE NAME FONT = "Dialog-24";
/** Name of font used to display the text "No Image" in user
 * profiles that do not contain an actual image */
public static final String PROFILE IMAGE FONT = "Dialog-24";
/** Name of font used to display the status in a user's profile
public static final String PROFILE STATUS FONT = "Dialog-16-
bold";
/** Name of font used to display the label "Friends" above the
 * user's list of friends in a profile */
public static final String PROFILE FRIEND LABEL FONT =
"Dialog-16-bold";
```

```
/** Name of font used to display the names from the user's list
* of friends in a profile */
public static final String PROFILE FRIEND FONT = "Dialog-16";
/** The width (in pixels) that profile images should be
displayed */
public static final double IMAGE WIDTH = 200;
/** The height (in pixels) that profile images should be
displayed */
public static final double IMAGE HEIGHT = 200;
/** The number of pixels in the vertical margin between the
bottom
* of the canvas display area and the baseline for the message
* text that appears near the bottom of the display */
public static final double BOTTOM MESSAGE MARGIN = 20;
/** The number of pixels in the horizontal margin between the
* left side of the canvas display area and the Name, Image,
* Status components that are display in the profile */
public static final double LEFT MARGIN = 20;
/** The number of pixels in the vertical margin between the top
 * of the canvas display area and the top (NOT the baseline) of
* the Name component that is displayed in the profile */
public static final double TOP MARGIN = 20;
/** The number of pixels in the vertical margin between the
* baseline of the Name component and the top of the Image
* displayed in the profile */
public static final double IMAGE MARGIN = 20;
/** The number of vertical pixels in the vertical margin between
* the bottom of the Image and the top of the Status component
 * in the profile */
public static final double STATUS MARGIN = 20;
```

make sure to use all of these in your code



public void showMessage(String msg)



- public void showMessage(String msg)
- public void displayProfile(FacePamphletProfile profile)



- public void showMessage(String msg)
- public void displayProfile(FacePamphletProfile profile)

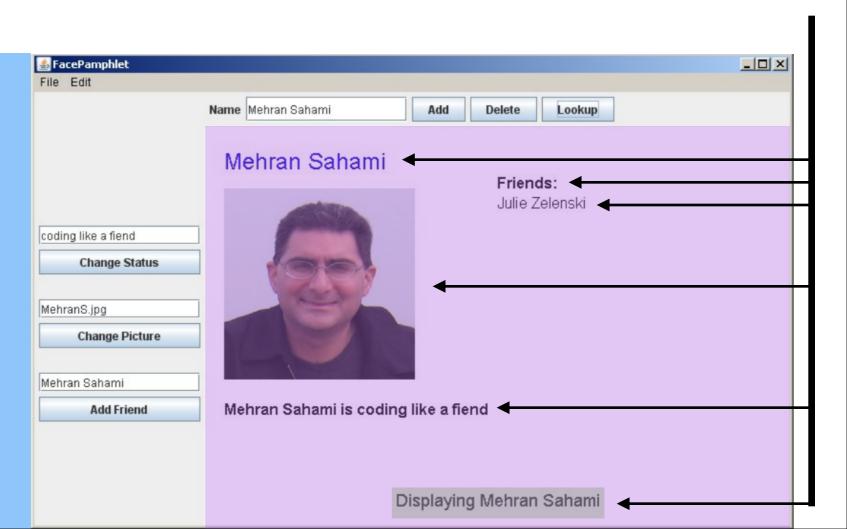
currentProfile



- public void showMessage(String msg)
- public void displayProfile(FacePamphletProfile profile)

currentProfile

GObjects





That's all Folks!