Project Part 2 - INDIVIDUAL
- **Name:** Ian Martiny
- **Project:** OTR Messenger

- **Requirements:**
    - UR-006 - modify friends list allows a user to add or delete users from their contact list.
    - UR-007 - organize friends list allows a user to create groups of friends for organization
    - UR-008 - view keys allows a client to view their public and private keys
    - UR-009 - request change key allows a client to have the system change their public and private key.

- **Use Case Document(s):**

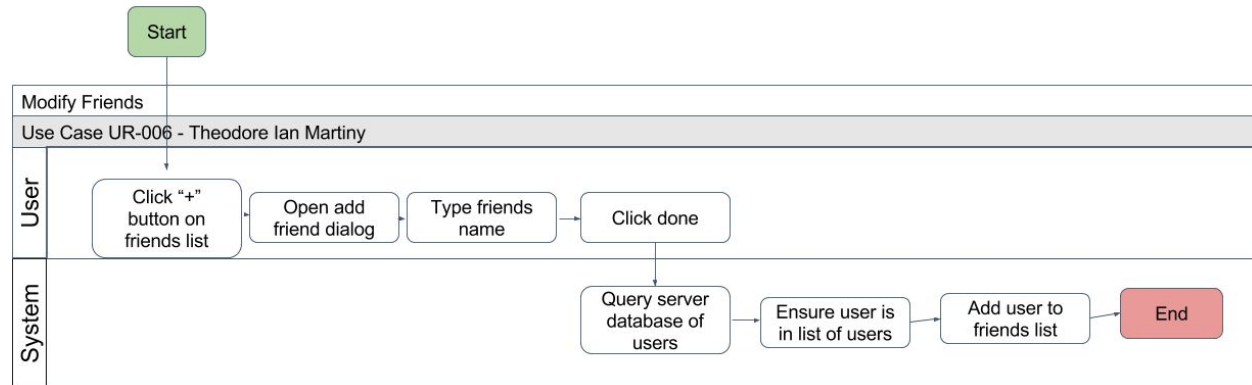| Use Case ID:	UR-006		
Use Case Name:	modify friends list		
Description:	Updates the friends list to add or remove friends		
Actors:	client		
Pre-Conditions:	there is a friends list, client is logged in to system which generates private and public keys		
Post-Conditions:	The client has an modified friends list		
Frequency of Use:	at the beginning high, few times daily. Afterwards, medium frequency, some changes per week/month		
Flow of Events:		Actor Action	System Response
	1	Click add button	pop-up window to enter user name
	2	enter new friend's username	
	3	Click "finish" button	Verifies that username is a valid user, adds user to list of friends
Variations:	1. there is as well a delete button. 2. user can enter friends name to delete as well. 3. user would click delete button		
Notes and Issues:	there are a add button and a delete button		
Developer Notes:			

Use Case ID:	UR-007		
Use Case Name:	organize friends list		
Description:	create/delete groups of friends in the friends list		
Actors:	client		
Pre-Conditions:	there is a friends list, client is logged in to system which generates private and public keys, user has friends in their friends list		
Post-Conditions:	The client has a modified friends list		
Frequency of Use:	at the beginning high, few times daily. Afterwards, medium frequency, some changes per week/month		
Flow of Events:		Actor Action	System Response
	1	Click "organize friends" button	show window for selecting already created groups or allow user to add new group name
	2	types in new group name	
	3	selects friends from list to add to group	displays selected friends together under group name
	4	clicks "finish" button	friends list is displayed with a new group heading above selected friends
Variations:	2. User may also choose to delete a group. 3. When deleting a group a user would select which group to be deleted. 4. System would delete the group heading that was selected by the user		
Notes and Issues:			
Developer Notes:			

Use Case ID:	UR-008		
Use Case Name:	view keys (public/private)		
Description:	client can view their own public and private keys		
Actors:	client		
Pre-Conditions:	client has logged in and displayed the main menu and connected to server		
Post-Conditions :	there is a displayed window showing the list of keys for the logged in user		
Frequency of Use:	infrequent---only knowledgable users would do this		
Flow of Events:		Actor Action	System Response
	1	clicks on an option menu	dropdown menu displays showing various options, one of which is "show keys"
	2	clicks "show keys"	window pops up showing the different keys (encryption and signing) as well as their public and private counterparts
Variations:			
Notes and Issues:	May want to initially block out private keys to dissuade users from seeing/showing others		
Developer Notes:			

Use Case ID:	UR-009		
Use Case Name:	request change key		
Description:	user requests that a new key pair be generated		
Actors:	client		
Pre-Conditions:	client has logged in and displayed the main menu and connected to server		
Post-Conditions :	client has a new key pair		
Frequency of Use:	infrequent		
Flow of Events:		Actor Action	System Response
	1	clicks on the options menu	dropdown menu displays showing various options, one of which is "show keys"
	2	clicks "show keys"	window pops up showing the different keys (encryption and signing) as well as their public and private counterparts window also has a link for "change keys"
	3	click "change keys"	generate a new public and private key pair and display them to the user. Then connect to server and update database with new public key
Variations:			
Notes and Issues:			
Developer			

Notes:	

- **Activity Diagram**: (UR-006)

- **User Interactions (Sequence diagram):** (UR-006)