**Contact Add Problem Findings  
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After the merge at the end of the last iteration (E3), i noticed that if a user added another user, they would have in their contacts “{username}@teamorange.space” AND “null@{username}”.  
The first is what we want, but the second is not.  
  
I discovered that this was a product of requesting subscription.  
So requesting subscription also adds that user.  
The reason that is was adding “null@{username}” rather than “{username}@teamorange.space”, is because it was calling   
babblerBase.requestSubscription(“{userName}”, message);

When it should have been   
babblerBase.requestSubscription(“{userName}@teamorange.space”, message);

Making this change removed the “null@{username}” issue, however there were now two versions of “{username}@teamorange.space” being added.  
So for now i commented out the subscription, so i could continue to debug our add contact problem.  
When we figure out when and how we actually want to request subscriptions, we could replace the add contact with that maybe, so that it only adds the contact once.

I'm not sure what else changed, but after doing this, the previous issue we were having with the contact being removed after that user logs in, was gone.

On the next page is a test, it is a series of steps to be performed in our main GUI application.

0.1 Go to the web console, and delete user1 and user2, if they exist

1.1. Create user1

1.2.. Create user2

2.1. Login as user1

2.2. Send a contact-request to user2

2.3. Close the application

3.1. Login as user1  
3.2. Confirm that roster is empty

3.3. Close the application

4.1. Login as user2

4.2. Confirm there is a contact-request from user1

4.3. Accept contact-request from user1

4.4. Close the application

5.1. Login as user1

5.2. Verify roster consists solely of user2

5.3. Close the application

6.1. Login as user2

6.2. Verify roster consists solely of user1

6.3. Close the application

7.1. Login as user1

7.2. Verify roster consists solely of user2

7.3. Close the application

8.1. Login as user2

8.2. Verify roster consists solely of user1

8.3. Close the application