

## Use-Case Realization

### Add a new contact:

User enters name into textbox and presses add button. Event handler calls the delegate handler function in the controller, which searches for the appropriate state to go to. The client calls the lookup of the name to the server. If the name exists, the server adds the contact to the client's contact list, and updates the Client's view to have the new contact in their list. Otherwise, the server does not add the contact to their contact list, and updates the Client's view to show an error of a NoNameFound.

### Log out:

User clicks logout button. The view calls the delegate to client controller who sends a messages to the server controller that user Ca has status of offline. For each user Ci that has Ca as a contact, the server notifies Ci of the updated status.