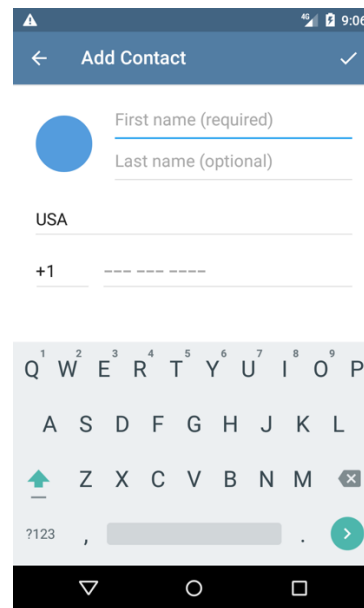


As a messenger app, one of the essential features of Telegram should be to have contacts to send messages to. The way to have contacts is to let users add contacts to their account. There are two Activities directly related to adding contact: NewContactActivity and ContactAddActivity. They are used in different situations which will be elaborate as follows.

### **NewContactActivity (onItemClick())**

Folder	File	Method()/Class	Line	How
ui	NewContactActivity	onItemClick()	108	Try to save a potential new contact into account

NewContactActivity is in charge of displaying app content to guide user when they intend to add a new contact.

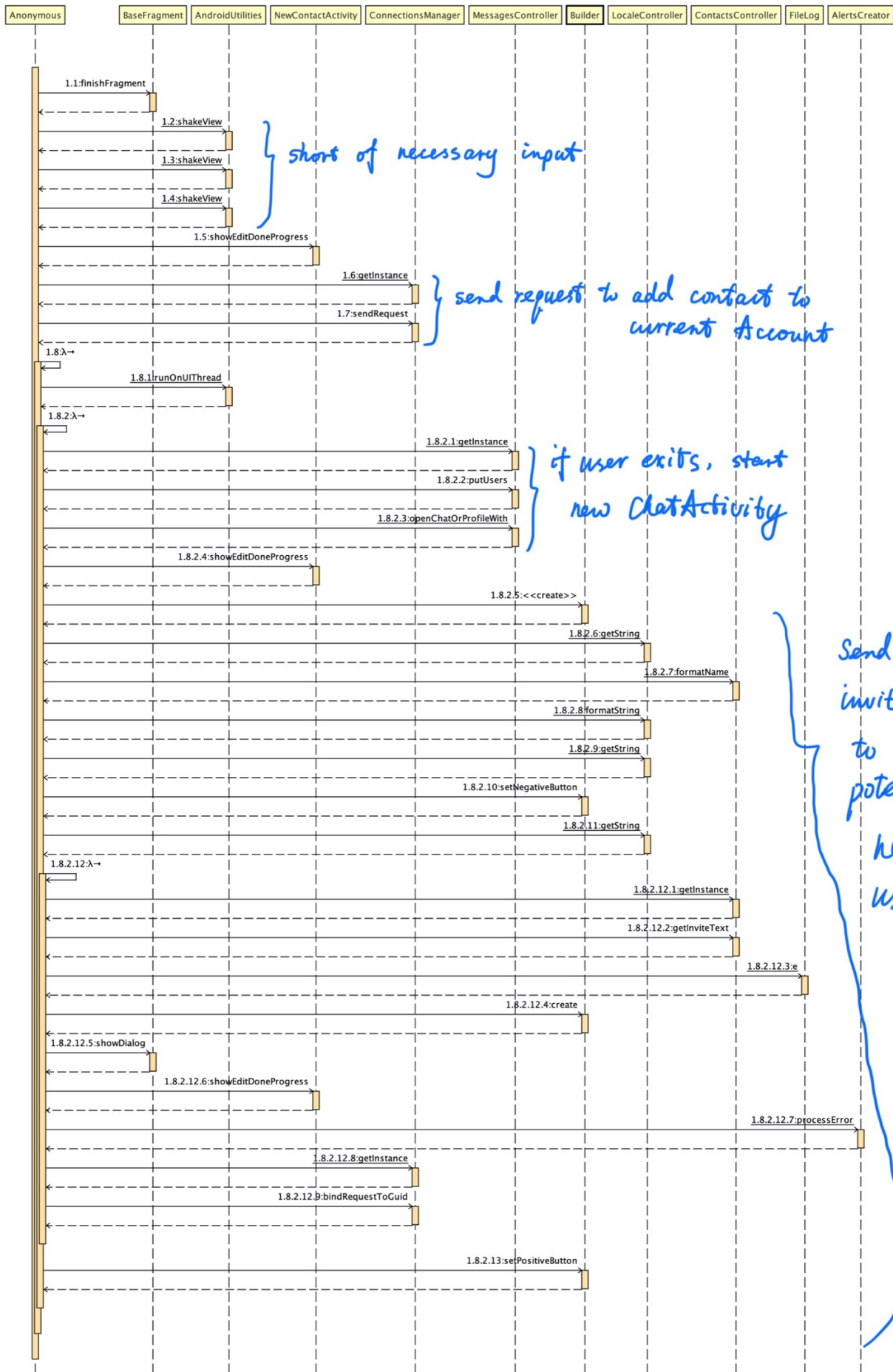


The method is called when the potential new contact info is from users (e.g. adding a new contact by inputting information, searching if someone is on Telegram).

When users finish editing necessary info and click the check mark on the top right corner, method `onItemClick()` is called to process the information for potential new contact.

First, the method will check if the required fields (first name, country code, number) are filled. If not, it will start an animation to shake the related field by calling `shakeView()` method in `AndroidUtilities Class`.

Then, the method will send a request trying to add a new contact, and wait for response. If the user exists in Telegram, the user will be successfully added to contacts and the user will be directed to start a new chat with the new contact. Otherwise, if the user does not exist, the information provided will be formatted to help the user invite the potential contact to join Telegram through sms text.



short of necessary input

send request to add contact to current Account

if user exits, start new ChatActivity

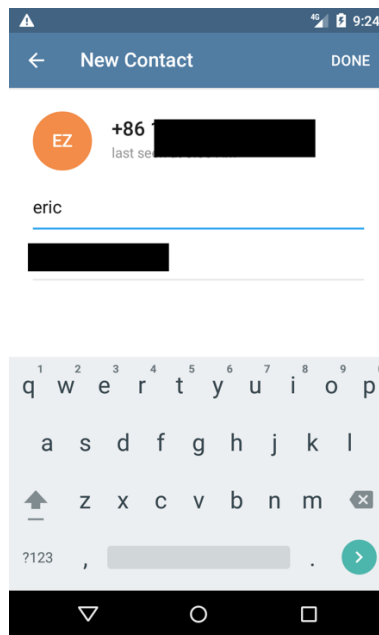
Send invitation to potential new user

## ContactAddActivity (onItemClick())

Folder	File	Method()/Class	Line	How
ui	ContactAddActivity	onItemClick()	104	Try to save the new contact into account

ContactAddActivity is used when Telegram know that the new contact is already an existing user (e.g. the new contact has sent the user a message, which indicates that the person is already a user of Telegram).

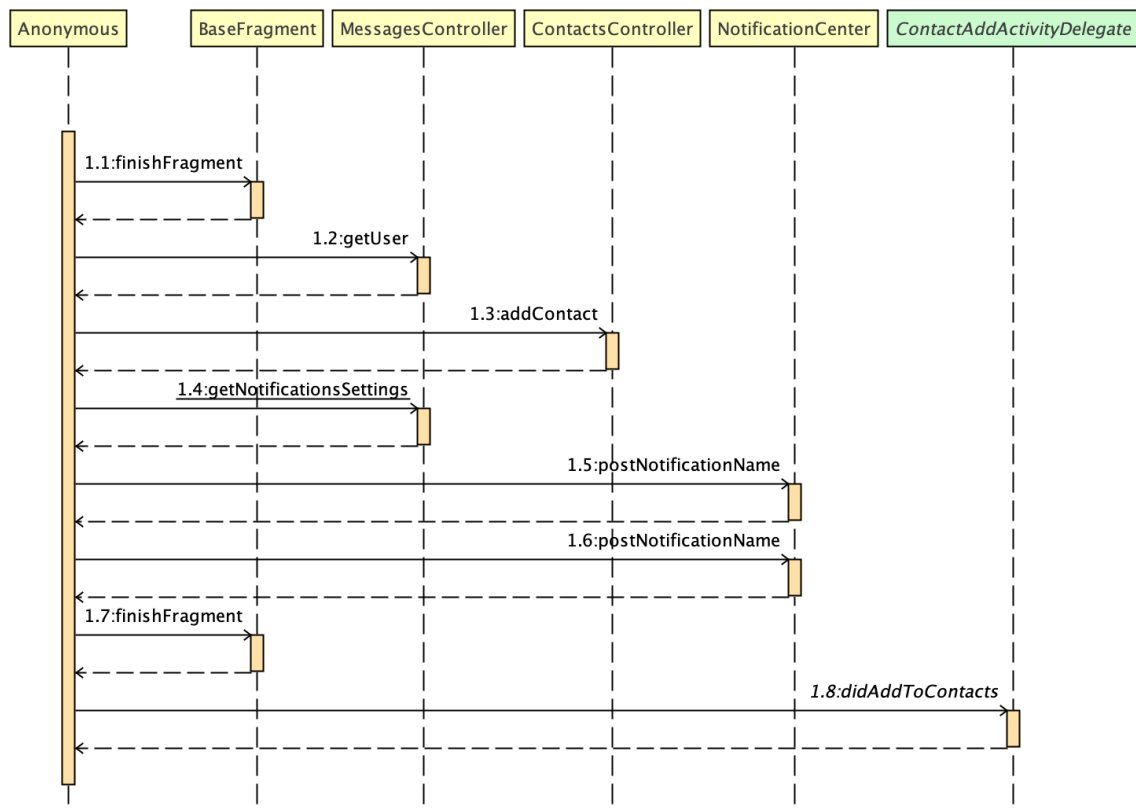
When users decided to add the contact, they can only edit their first and last name field. When they click DONE on the top right corner, method *onItemClick()* is called to process the information to add the new contact.



First, the method will check if the required field (first name) is filled. If not, it will do no reactions to the click.

Next, if the field is properly filled, the method will get the contact's id from MessageController and set the contact's name as indicated by user.

Then it will get the ContactsController to add the new contact.

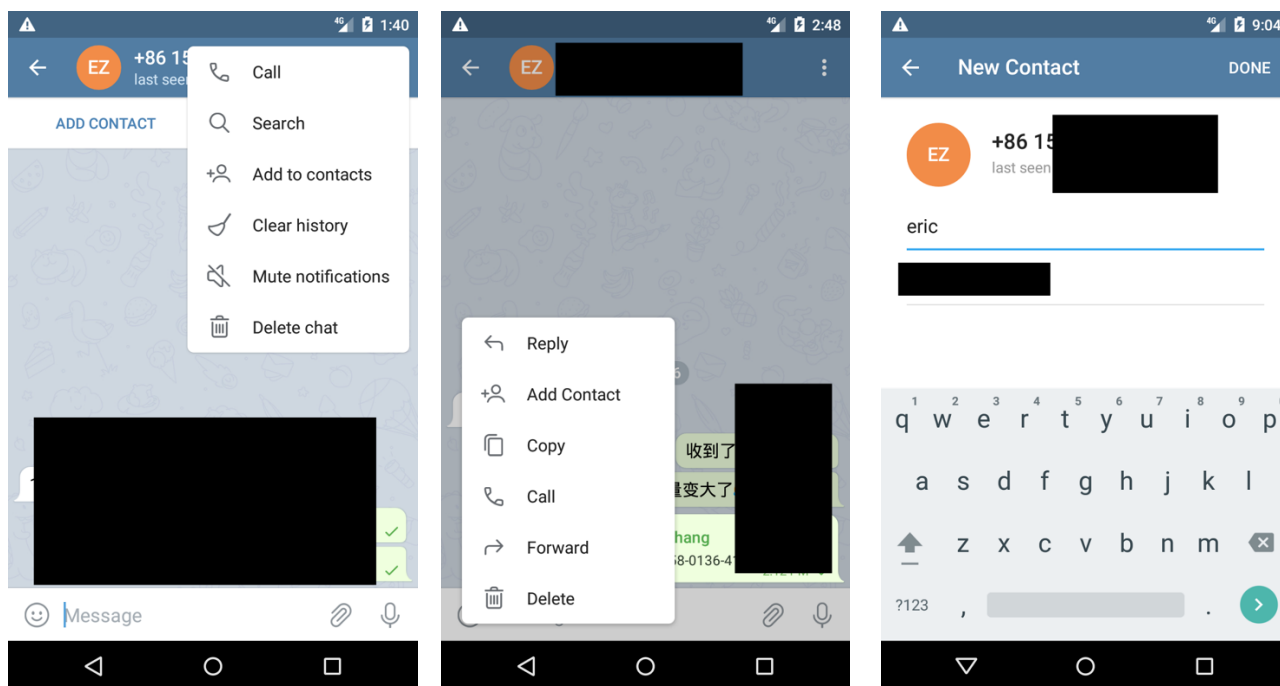


There are several ways to invoke the two Activities:

### For ContactAddActivity:

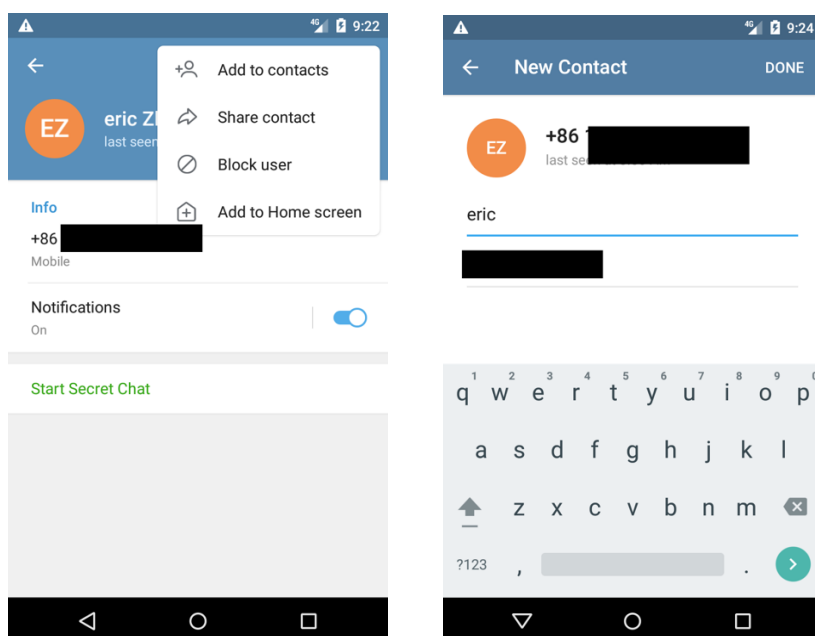
1. If someone not on your contacts send you a message, you can
  - 1) click **ADD CONTACT** or *Add to contacts* during ChatActivity to invoke ContactAddActivity, or you can also *Add contact* from the chat messages others send you that is a contact info during ChatActivity.

Folder	File	Line	When
ui	ChatActivity	3446	ADD CONTACT
ui	ChatActivity	1372	Add to contacts from right corner
ui	ChatActivity	14525	Add contact from chat message



- 2) check their profile first by clicking the headline to invoke ProfileActivity and then decide whether to add them through ContactAddActivity.

Folder	File	Line
ui	ProfileActivity	888



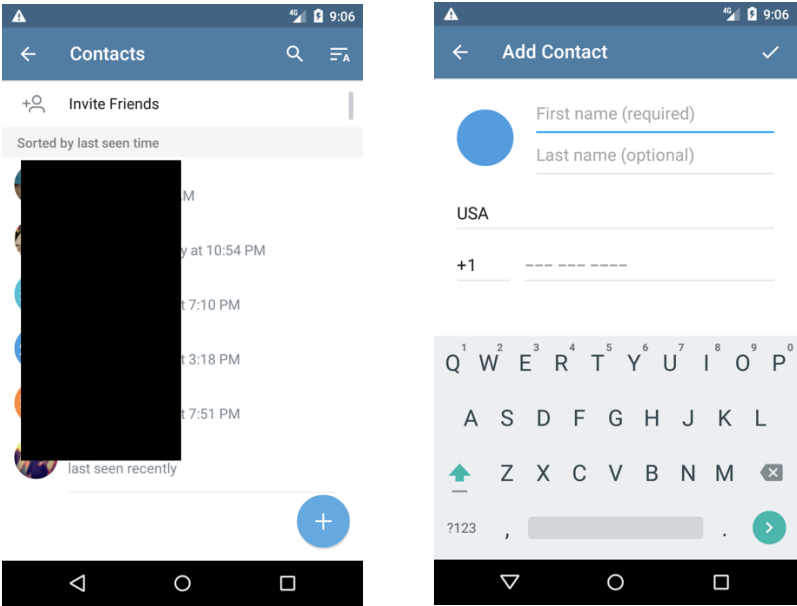
2. If you want to edit your current contacts' info, ContactAddActivity will also be invoked from ProfileActivity, but the purpose is different from adding a new contact, so we don't elaborate here.

Folder	File	Line
ui	ProfileActivity	900

**For NewContactActivity:**

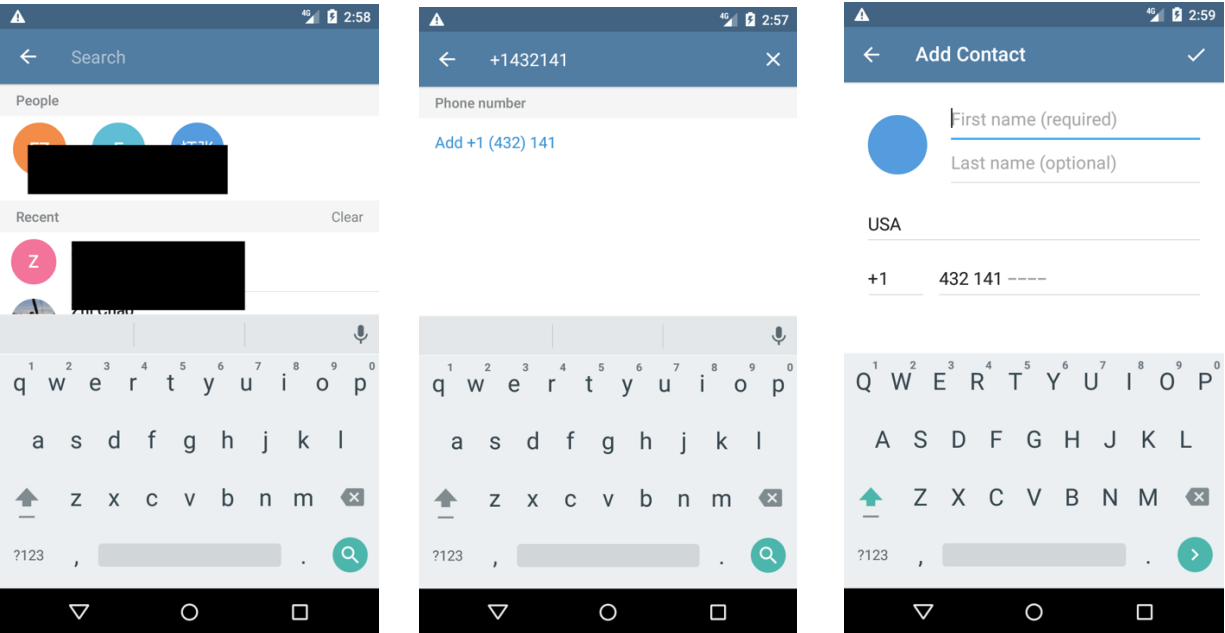
3. Click the “+” button during ContactsActivity to invoke NewContactActivity.

Folder	File	Line
ui	ContactsActivity	582



4. If you search someone during DialogsActivity with a format similar to a phone number (e.g. +1 4952743) and they are not in your contact list, it will display a choice to add the contact. If clicked, NewContactActivity will invoke in the front.

Folder	File	Line
ui	DialogsActivity	2335



5. Similarly, if you search someone during ContactsActivity, with a format similar to a phone number and they are not in your contact list, it will display a choice to add the contact. If clicked, NewContactActivity will invoke in the front.

Folder	File	Line
ui	ContactsActivity	411