

ShoutAut Final ver. Nov 10.

Good news: It got simpler! Thank you for your patience.

<<MC: I think I closed 96%+ of the loops, the rest of the loops I need suggestions and insights to close. **But please read this document...**I think, it is the real final – this time, **Diego --- look for you name in bold thru out the document – for special areas for your attention..>>**

Summary:

ShoutAut is a “location based community” communication board (starting with chats, later messaging, etc.) leveraging the fact that regulars of a location generally log on to the wifi – and thus, the system is using the wifi as a “closed and secure” thingy. Actually, the ShoutAut MVP is: A community communication app for users of any particular “wifi”.

For now, we will only serve the people who log on to wifis. Those that do not – whether at work place or public places – we will not serve.



We will target the users who frequent a place (work, co-working space, college campus), and are wifi users; but, indirectly also those who do log on to a wifi in passing (the cafes, airports).


Core benefits include being an out of network communication channel for people that frequent a place and using that behavior as the basis to enable them to communicate. We are saying that if someone is a regular at a place - that is basis for a powerful want/need for communication – that, the places where we logged on to – has some stronger interest to us*.

This new “final version” mission, features and functions are:

- 1) The users must have previously logged on to the subject wifi and that is remembered by the ShoutAut System, or missing that (or is a first timer), must be able to log on now.
 - a) All first users, to access the subject board must meet the above condition of: previously had logged on or is currently on it.
 - b) BTW: in this MVP version, the System don't really care if the wifi is Secure (requires individual or “guest” password) or Open (just log on). Got simpler!
- 2) **Users can only post or see one wifi at a time. (Future versions will allow them to see several wifis or post to several at the same time.)**
- 3) **All boards are associated to at least one wifi. Also, we don't need to get the address of the Location/Place from GPS/Address databases.**
 - a) But, we still need to associate the wifi to a GPS point – the reason (for at least the MVP) being to distinguish stores/places that use the same SSID (name for their wifi) across their chain (e.g. Starbucks).
 - i) To reduce confusion, for places with the same SSID (e.g. same SSID at each store), the system will either:
 - (1) **Use the last SSID and place as the place for the SSID. I.e., if user was at Starbucks at Mission St, and had logged on to the wifi there; and later is at Starbucks at different location, his wifi may log on automatically or he may do it manually; then we will just assume that 2nd location for the MyPlaces. Or.**
 - (2) **If we can figure out “simple” way to distinguish the different locations, even if same SSID, the we can have separate Wifis in the MyPlaces, i.e. we can have Starbucks 1; Starbucks 2; etc.**
 - b) **We do not directly use GPS to infer the fencing based on wifi. In this version, we don't have to infer. The** reason is that user must have logged on, and once credentialed, they have access to that Board – from offsite, e.g. can access the work place's Board from their home.
- 4) Once a user has credentialed/authenticated to a wifi – s/he can now access that Board from anywhere (via MyPlaces), just as if on location.
- 5) Use Cases and What ifs:
 - a) Starbucks:
 - i) User goes to a Starbucks – for the first time, but does not log on, regardless that their wifi is “open”, and only requires a Terms of Service, or if a guest password.

- (1) Then: the User does not have access to that specific Starbucks' location board.
 - (2) Ummm.... But. We know that all Starbucks uses the SAME SSID (!), and thus the GPS is needed here – to distinguish a Starbucks on Mission Street, from another Starbucks with the same SSID, a mile away. (Thus, we do need to use GPS for this purpose.)
 - (3) Please see above paragraph 3.a.i.2.
- b) "Berkeley University": There can be multiple wifis there. One for University, one for "labs", "library", "student".
 - i) We will let the user pick one Board at a time to post to and which board to read.
 - (1) This is similar to our email apps which allows for "all view" of all email accounts registered to that client/app or one account (i.e. one wifi to us).
 - c) "Guest" come to Berkeley – but does not log on. S/he does not see anything on the Fig 1 – this is a bit draconian – but, we go with this for the MVP.
 - d) Shoppers walk down a street or a mall. Many stores do not have wifi and thus the ShoutAut system has "no anchor" and there is no ShoutAut boards. For now, we go with this.
- 6) Allow users to access "open" Wi-Fis Boards, even if never have logged on? Not for the beta.
 - a) (Hmmm: If an employee or a student is no longer part of that place, but had been previously and that state is the basis of the ShoutAut System to keep giving that user access... then what? For now, they still have access "forever" (Unless we put a 30 day or 1 year, requirement to re-log on to a Wi-Fi to continue participating. But, we will deal with this future versions.)
- 7) **The rest, I will detail in the following.**
 - a) Individual Figures uses, features and functions. Generally – read the right side of the figure first, then the comments on its left side.
 - b) Flows.
 - c) Bottom has screens for examples for MyPlaces. (Especially for **Diego**)
- 8) **Remaining questions and what ifs:**
 - a) For now, let's use the term Posts or Postings for the chats that are on the landing page. And, Chat for those that are in Fig 2.
 - b) Some questions are in the below figures.

- 1) Line 10: Only the wifi SSID is shown here, if more than one was selected (at Fig 9), then squeeze in beginning of the 2nd wifi SSID.
- 2) (Please note that I removed the line of address for the location/place that was in prior versions.)
- 3) Line 10: The "V" will open the "recent Wi-Fis" menu, see line 44.
- 4) Line 12: [Handle] is generated by the system — at the install; Date and Time (military way) when the chat was posted...
- 5) Line 11: This has the Handle, 2nd word; date/time of creation; # of Chats on that Post (in fig 2) / # of other users on that Wifi
- 6) Later, we will start to rank and add points to the users based on their activity. (Ala the Waze driving app – they do a great job, we can learn much from them.)
- 7) Line 13-16: The Posting's first 3 or 4 lines max (**Diego** to decide) is displayed in the Posting summary view in Fig 1.
- 8) Line 16: Attachments/Paper clip. This is shown if there is an attachment. <<MC: A great use of ShoutAut app is for users to share and exchange files, documents – e.g. in high schools, colleges, etc. – where the wifi is weak or coverage not adequate.>>
- 9) A posting can be swipe Left and Deleted. <<MC: An idea is that if more than 33% (to decide) of users delete, then the System will also remove that Chat Posting (in fig 1) from its system – so that subsequent users will not see that chat Posting. This also means that whenever the user deletes at Chat Posting, at the next update; the app and server talks and app tells what was deleted.
- 10) Line 43. This is "Post" here. This and  (Navi tab) to open Fig 4.
- 11)  - To be highlighted visually somehow in fig 1, so that users are encouraged to do postings.
- 12) Nice to Do (**Diego**): Distinguish the Postings in Fig 1 (like emails in our inbox) – (a) Viewed or Read – meaning the user had tapped on it and went to Fig 2; (b) New – downloaded since the user's last view of Fig 1, and (c) Not Read (downloaded but not tapped thru to Fig 2).
- 13)

Popular		Nearest	Newest	Refresh
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 - This sorting feature is optional for the beta.
- 14) Popular – sorts via either (a) most sub Chats (i.e. in Fig 2) or (b) the one with most users on it. (To decide). Maybe some weighted thing.
- 15) Nearest – We don't need the Nearest.
- 16) Newest – sorts by latest Posts
- 17) Refresh – refreshes the Postings. Refresh can be here or at the top Navi. (**Diego**?)
- 18) **Diego** -- Optional, this entire Popular, Nearest and Newest (And even Refresh) can be hidden in the 3 dots at the Navi. (Or perhaps, the Refresh tab can be on the Navi bar then).

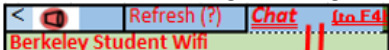




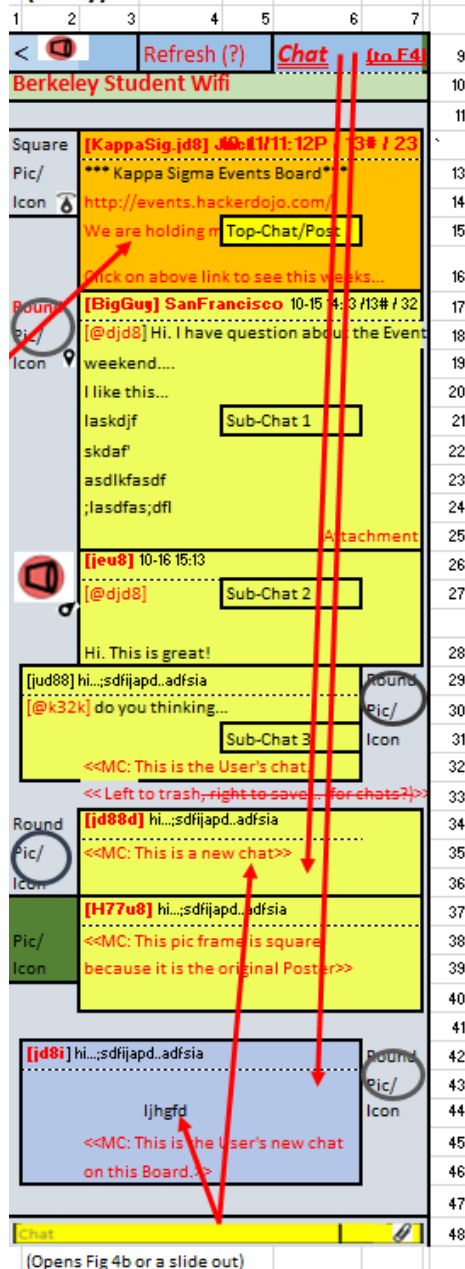

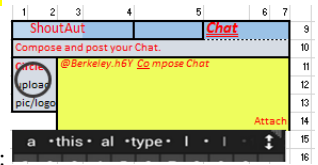

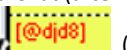


- I) Fig 2 is kinda like the individual email view, with some nesting/threading.
- J) 
- K) **Diego**: There is a Back "<" here because the user came from Fig 1. Or! - We don't use <. Because, user can press  to go back to Fig 1 (I prefer this way. Seems "cooler", but your choice.)
- L) Refresh: To put it here? (**Diego**) I just put into this example just to show you.
- M) We may to it like the messaging apps, and have the Chat Compose slide out from the "bottom", and of course the Keyboard will also load.
- N) Here, in Line 10 — to show the first 2 wifis — of the multiple wifis — that the user had selected at Fig 9.
- O) We can use  instead of ShoutAut. Pressing it, will take the user back to Home (Fig 1). Or! We may refresh the screen?
- P)  This user is away, i.e. not in the wifi zone. (The system is tracking wifi status on users' devices to determine this. I think this is simpler than GPS. But, we can be "generous" with the fencing — because wifi signals have smaller footprint than the location.)
- Q) We don't have this:
 as there is no sort at the Fig 2.

Fig 2: The Chat's full Post and Thread (if any)



- 19) Please note that MyPlaces tab is not in the Fig 2.
- 20) Is Refresh a good thing in the Navi? (**Diego**).



- 21) The chat Posting at F 1:  was selected and its full Posting is shown in lines 12 to 16. (Please note, as example, that has a hyperlink as part of that Posting.)
- 22) **Diego**: Now about the use of the Chat in Fig 2. We can open a new screen such as Fig 4b or we can do a mini version (e.g. it slides out like a message compose) — so that the user DOES NOT "leave" Fig 2 to chat or reply. IN Fig 4b, we don't need the wifi menu there. Because, the user is only able to post to that Wifi chat! I prefer the mini-version (the Chat Compose slides out over the Fig 2), so that the user experience is doing the chat at Fig 2.
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- 23) For example:
- 24) In Fig 2: We are allowing one level of threading or nesting of the Chats. For example, the Sub-Chat 1, 2 and 3 are "threaded" to the Top-Chat/Post.
- 25) When user taps or long press (**Diego**) on a Posting (for example, the Chat body in Line 12 to 16) or any one of the "Sub-chats" — then, that user's chat (created at Fig 4) will go to the bottom of that Chat or its thread.
- 26) (**Diego** as your suggestion) But, the handle of the selected Chat will be inserted at the beginning of the Compose at Fig 4: "@Berkeley.d3d"
- 27) Example: User Long pressed/tapped on "Top-Chat"; the  (Line 18) was injected by the System at Fig 4 compose, the Chat was attached to the bottom of Top-Chat as the Sub-Chat 1
- 28) Example: User for the Sub-Chat 2 had tapped on the Top-Chat (after Sub-Chat 1 was published but before the Sub-Chat 3 was created). The  (the handle at line 12) was injected; and his chat was at the bottom of Sub-Chat 2.
- 29) Example: User (Sub-Chat 3) — tapped Sub-Chat 1, and Sub-Chat 1's handle is shown in line 29 . Sub-Chat 3 Poster is also the user and his own chats are flushed right.
- 30) (To Summarize: We are enabling one level of nested "reply": If a user long press on a Chat (line 12 to 16); or any one of the "sub-chats" in examples line 17-25, or lines 26 to 28; then the Fig 4 Post/Chat compose will open up, but, that Chat will be attached to the bottom of that group thread.)
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- 31) This pic frame at Line 37 chat, is square because, the poster is the original Top-Chat poster.
- 32)

R) User can pick which wifi they want to see in Fig 1 and also to post to in Fig 4. The wifis view here “mirrors” the device’s wifi settings and information. But, he does not have access to all of them! – Because, some will require log on and he don’t have the password. <<MC: if we only show the ones that he had logged on previously, we are limiting his view of available wifis – for example, at Hacker Dojo, we use same password for Guest and Donate, etc.

S) But, even if had not logged on to a “nearby” (in range wifi previously, he may do so now (as there can be several wifis at one location).

T) Important! The ones without the box in Fig 9 (and thus is not selectable) are wifis that is visible to the device, but the user had not logged on to them and thus cannot select:



U) If there is a wifi in range, and he is not logged or was authenticated, he can go to his wifi and log on and come back to Fig 9-b and it will be selectable. (The app to track this.) Ideally, the user can just long press that wifi in the Fig 9-b and it will cause his device’s wifi log on to load).

V) The out of range wifis (those w/o the broadcasting icons), are the wifis that the user had logged on. And thus, the user can select them, even if not in range. For example:



W) I am thinking to limit the counts to 99 and 999 respectively. Why? Kinda like LinkedIn 500+, and...

Fig 9-b: MyPlaces view - Only is from Fig 1 and Fig 4. (not Fig 4b)

<<MC: **Diego**. Not sure if the MyPlaces is to be a “pop up dialogue view” or is like the other Figures, i.e. a separate screen. Also, in the following page, I put samples for the email app versions of Fig 9. Also, please see 2 pages down for another variation of Fig 9.) I decided for the Fig 9-b!!

- 33) The wifi that the user is on now is highlighted. He can pick another Wi-Fi.
- 34) When the user picks a Wi-Fi, then the Fig 9-b screen closes. Or, he can pick the ShoutAut icon at the top and goes back to where he was previously.
- 35) If the user is not on a wifi presently, then he can pick one here and then the Fig 9-b closes, and he is back to Fig 1 or Fig 4 – whichever he was immediately before.
- 36) The user comes to Fig 9-b from either Fig 1 or Fig 4 by pressing MyPlaces tab at the Navi or at the bottom of the screen.
- 37) If from Fig 1 – the user can go back to Fig 1, or “after making wifi selections/changes”.
 - a) If back to Fig 1: Then the Postings based on his selection of the wifi is shown.
- 38) MyPlaces can be a “pop up” and thus, there is no top Navi bar at MyPlaces.
- 39) **Diego**, let’s put the wifi information on two lines.
- 40) This can sort the wifi view. (Because, the Wifi MyPlaces view acts as a – overview of the user’s available Boards --- but, I don’t think is it must have for the beta. This is optional.)
- 41) This is optional – as the user could use the back button at the device’s bottom. But, I think it’s nice to have it.

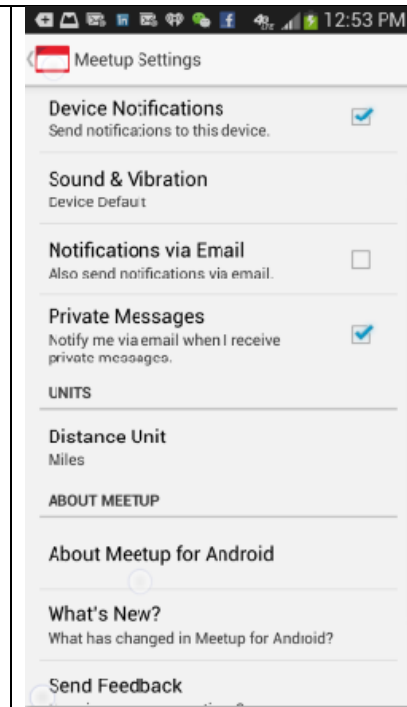
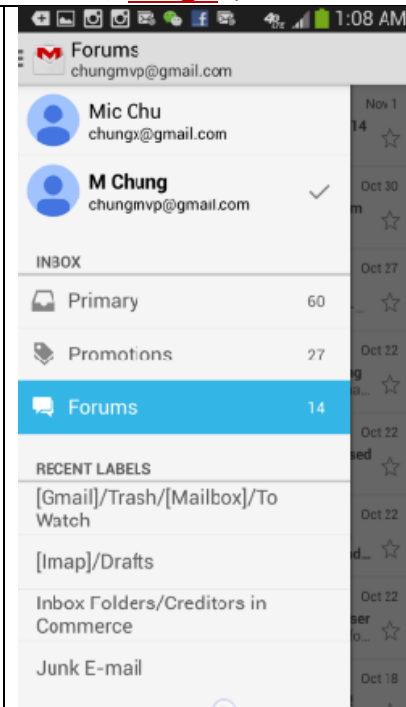
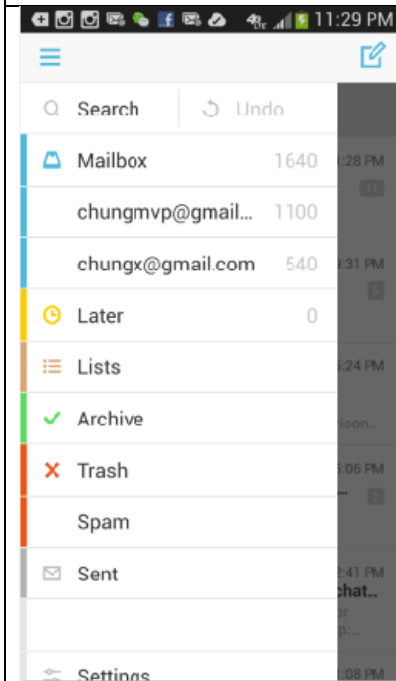
For the Navi:

Diego: And optional icon for MyPlaces?



...

These are from 6 different email apps (pressing on the 3 bars). Diego, you can can ideas for the Fig 9-b from these.



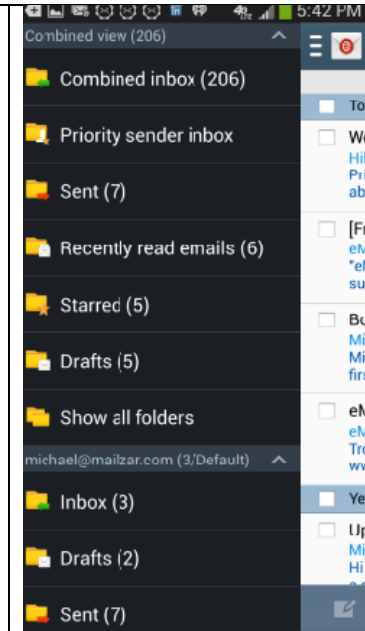
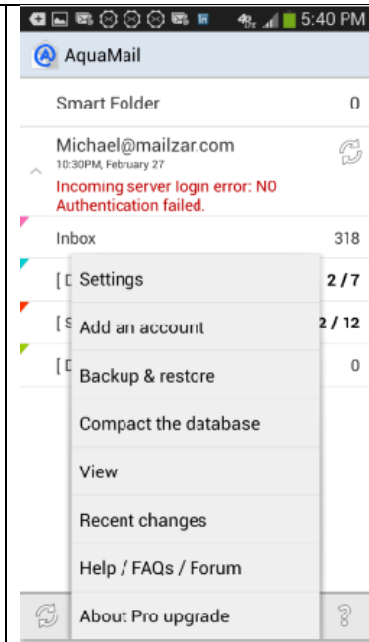
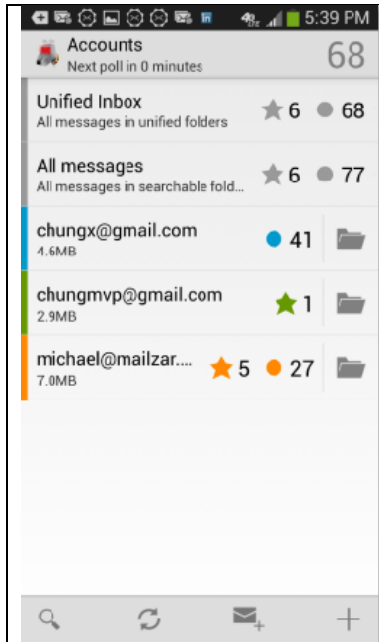
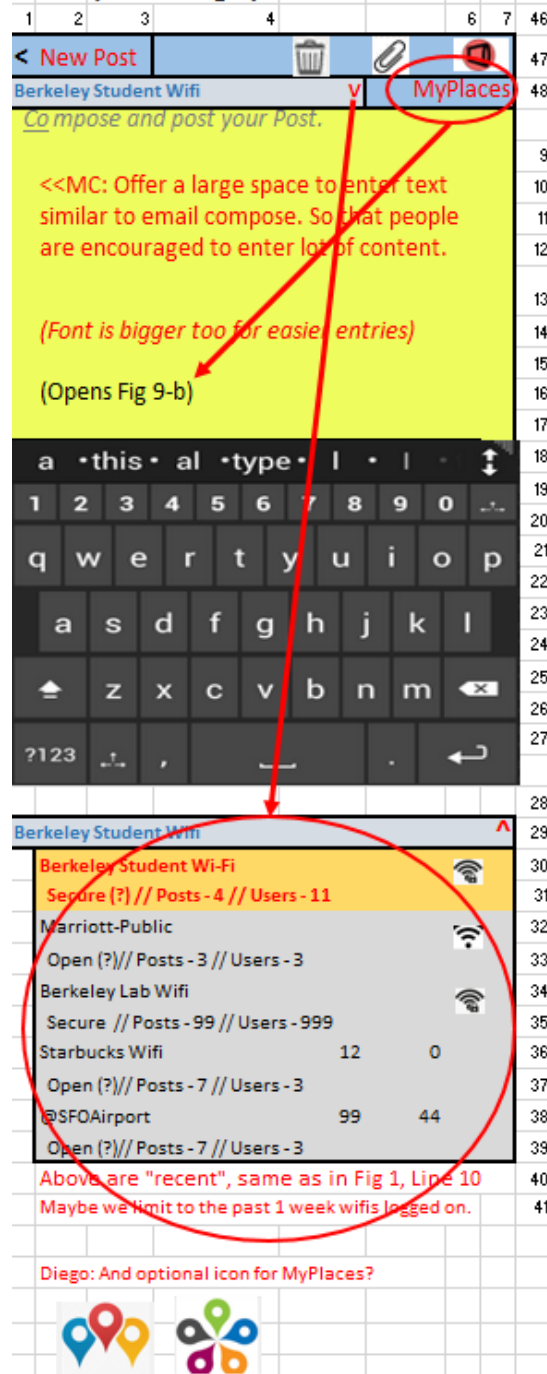


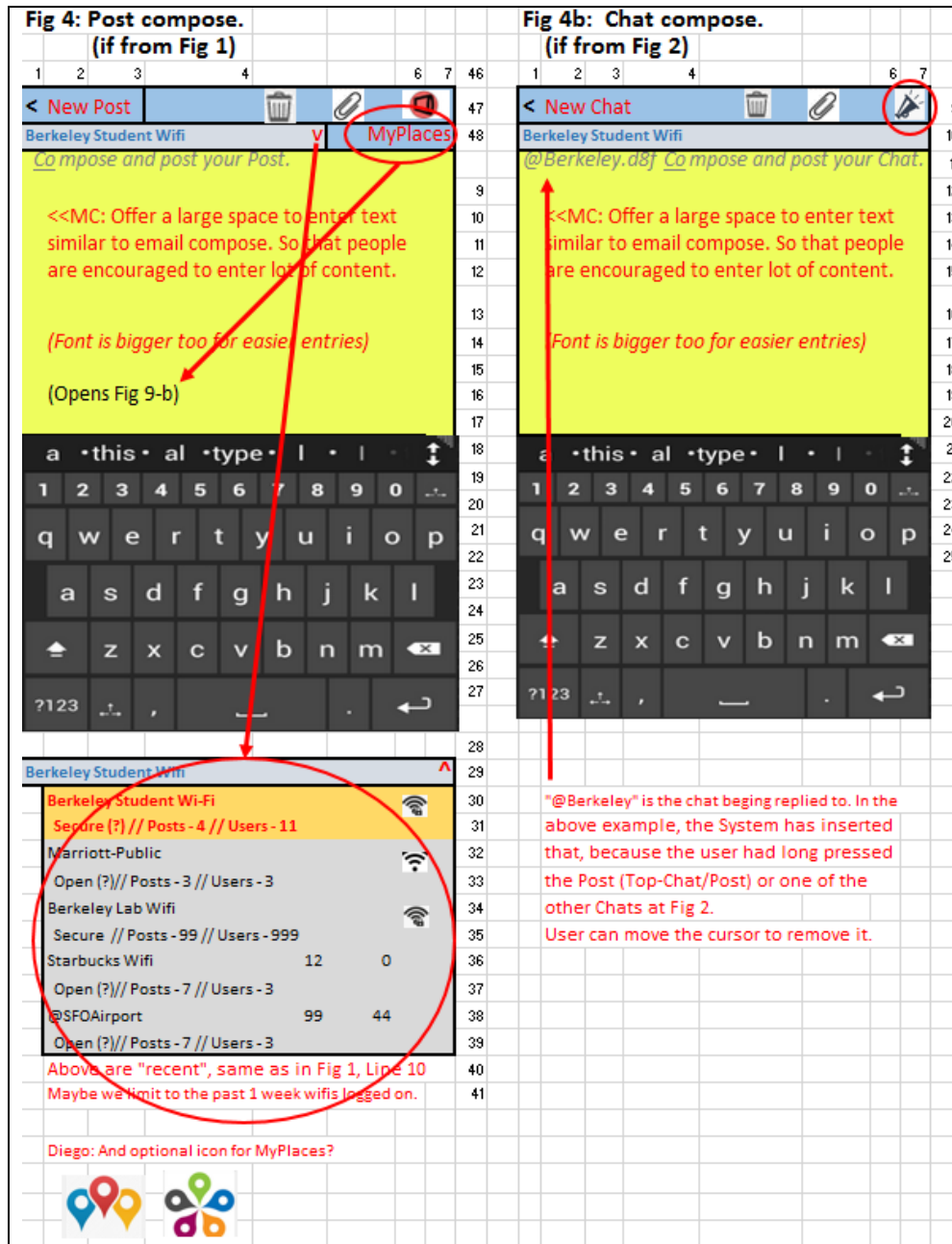
Fig 4: Post compose.
(if from Fig 1)



Diego: SIMPLIFIED !!!! (Same format for Chat Compose too!!)

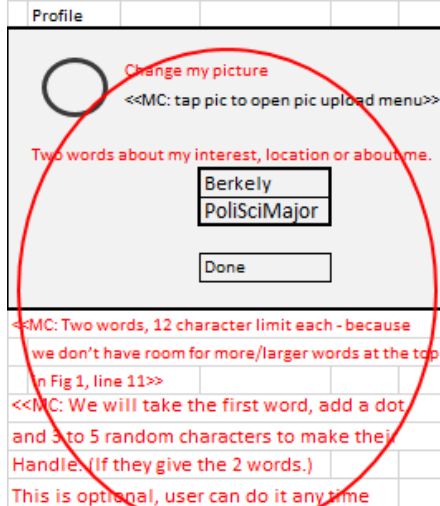
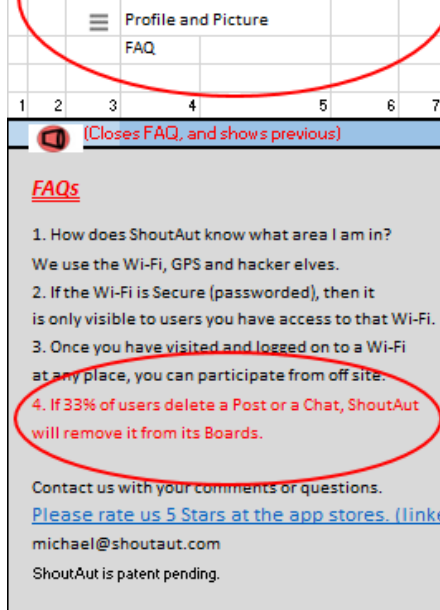
User comes to Fig 4 (or it can be a slide up). Please see some email app's new email compose for examples for our Post/Chat.

- 42) This is for Post Compose. Chat Compose is Fig 4b. There are two options to display the Compose – Naivs. I like the top one.
- 43) The user can do these things to Post or at Fig 4:
 - a. Enter text at the Compose.
 - b. Attach a picture or files. "Attach" opens up the device's "add file" or "take a photo and upload" menu.
 - c. Go to MyPlaces and change or select (if not on any wifi now) a wifi to post to.
- 44) "New Post" (see also Fig 4-b for "New Chat"). There is two options (**Diego**), we can put MyPlaces at Navi or at line 48. The Attach is better at Navi bar, imo. Especially, if we put MyPlaces at line 48.
- 45) The ShoutAut icon - means to Post/Chat. (I get the idea from email apps).
- 46) MyPlaces will open the Fig 9-b. At MyPlaces they can pick the wifi/Board that they want to post to.
- 47) <: Goes back to Fig 1.
- 48) User can attach a file here to share and load to our server. And it also can be downloaded by the viewers. BTW, if the user had added any content, but did not press Done and upload – but, does "other" things – we should save their entry and show it when they load the Post again. (I.e.: To save ANY content that was entered in the Compose – ANYWAY – and show it to them whenever they come back to that. (This is BEST. And not even remind them that, they are leaving the Compose screen – since we automatically are saving it, as a courtesy.)
- 49) When then come back to the Fig 4 – and there is previously entered content, they can just select the Delete icon on the Navi bar to delete and get a clean Compose slate.
- 50) The user can press **Berkeley Student** - to open a drop down menu -- see line 38. In this example, "Berkeley Student is the Wi-Fi he is on now. This menu has "Recent" wifis (a shortcut and saved settings) and user can select his frequently used wifis to post to. This is the same wifi list as in line 44, in Fig 1
- 51) If no change to the wifi(s) – the user can press and load the Posting.
- 52) HOWEVER: It is possible that the user is – currently – not on any wifi. Then. What wifi do we show in the line 48? Or line 14. Thus, if he is not on any wifi: We can display: "Please select a Wi-Fi Board" in these lines.
- 53) ALSO: Picking MyPlaces --- will open his entire list of wifis (Fig 9-b). Thus, there is use for MyPlaces in Fig 4.

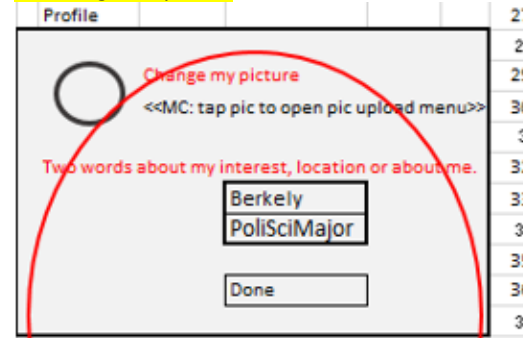


- 54) This is new Chat. From Fig 2. The only "difference" to Post is the
- 55) I modeled this after new email compose of various email apps.
- 56) **Diego!** A nice icon for "MyPlaces" for the Navi bar? But, we will still keep the text
- 57) "Threading of Chat" example. The "handle" of the chat is inserted into the beginning of this new chat – so that it references the chat. This is an example where the user had longer press the chat by "Berkeley.d8f"; the System injected that into the beginning part of the Chat Compose. User can move his cursor back and erase.
- 58) **Diego**, shifting the ShoutAut icon to be used here for "to load Post" or "to load Chat" (I lieu of "Done") can be confusing to the user. But, I like that they are do a "ShoutAut". Perhaps you can decide.
- Our "To" is the Wifi. (Later we add ability to post to multiple wifis, and that is like cc/bcc. And also the ability to insert into the body of the message.)

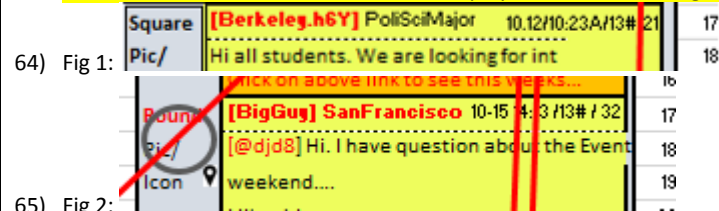
Fig 8: We can put this in the device settings (at the device bottom)



- 59) Here I added something new and I think is a very nice to have for the beta. Users can add two words. (The menu is accessible from the device Settings). It is optional for them.
- 60) There are two ways to use this. 1) it is good to give some description of the users; and 2) we will use the first word as the Handle for the user, and thus some personalization, while still being anonymous.



- 61) This is a way for users to add "two words" to describe their interests or about self.
- 62) This is a way for users to add "two words" to describe their interests or about self.
- 63) We will take the first word "Berkeley", then add a dot, and 3 to 5 random characters and turn that into a the users' handle. And Display that on the Postings/Chats top line.



64) Fig 1:

65) Fig 2: