

## Product Backlog

Project Name: More Friends

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### **Problem Statement:**

Many people, who are introverts or just shy find it difficult to initiate conversation with strangers in real life. Thankfully, in current times, people can strike up a conversation online with other people with the press of a button. There already exists many software applications such as Omegle which are specifically designed for randomly assigned chats. However, with an enormous user base coupled with user anonymity, users are more likely to end the chat session prematurely and fail to build meaningful relationships. Our chatting application will draw on this shortcoming, walking on the line between lightning quick chat assignments and taking account of user identity and interests.

### **Background Information:**

We live in a society where people are disconnecting themselves by staying connected on pc and mobile devices at a growing rate. As a result, meeting a new person outside their immediate circle of peers can prove to be challenging. Our application will ease the steps of our users out of their comfort zone by matching them with other people who share the same interests or ideas.

Our application will facilitate user identity by allowing user to build up their profile based on their interests and companion preferences. These interests and preferences will then be taken account of when matching and assigning users into a chat.

When assigning a companion to a user, the matching algorithm will filter and sort other users based on how much they have in common in interests and how compatible their preferences are. Only the most suitable of candidates will be matched and assigned to a user.

**Environment:**

According to our project plan, our software will run on the android platform, therefore we will be mainly using Java and XML for the frontend. For the backend, our software will be using Parse to store and query profile information and other app data. We also plan to use the open source Picasso library for the purpose of loading images in our application.

**Requirements:**

Backlog ID	Functional Requirements	Hours
1	As a user, I would like to create and log in with my own account.	8
2	As a user, I would like to upload my profile image.	6
3	As a user, I would like to edit my personal information.	8
4	As a user, I would like to apply for resetting password.	8
5	As a user, I would like to get randomly matched to chat with other users.	10
6	As a user, I would like to send and receive messages.	14
7	As user, I would like to view others' open information.	12
8	As a user, I would like to add people to friend list.	10
9	As a user, I would like to send and receive pictures during chatting.	10
10	As a user, I would like to refresh current list of strangers.	14
11	As a user, I would like to delete others from chat list.	6
12	As a user, I would like to block users by adding them to black list.	12
13	As a user, I would like to set my own account be invisible to others.	4
14	As a user, I would like to link to facebook. (if time allows)	16

15	As a developer, I would like to manage user's account.	14
16	As a developer, I would like to reset user's password when there is a request.	20
17	As a developer, I would like to save the user's information in the database.	28
18	As a developer, I would like to provide different language settings. (If time allows)	16
19	As a developer, I would like to get user's location.	24
	Total:	240

Backlog ID	Non-Functional Requirements	Hours
1	As a user, I would like to run app on an android device	-
2	As a user, I would like to protect my personal information safety in database.	12
3	As a user, I would like to have a fast response time for each query.	14
4	As a user, I would like to have a simple and clean UI so that I can understand how to use it easily.	9
5	As a developer, I would like to have a readable API	10
6	As a developer, I would like to keep the source code safe.	6
7	As a developer, I would like it to be easy to read the source code.	-
8	As a developer, I would like to have a easy recovery of the code.	10
	Total:	61

**Use Cases:**

Case ID	User	System
1	Case: Register and login 1. Click the register button 3. Input the username, email and password 4. Click the “submit” button 6. Input the username and password 7. Click the “login” button	System Responses 2. Register page shown up 5. Return to the login page 8. Shown the main page
2	Case: Upload the profile image 1. Go to the “my profile” page 2. Click the profile image 4. Click the “upload” button 6. Choose the photo 7. Click the “submit” button	System Response 3. Upload button shows 5. Photo stream appears 8. New profile image shown
3	Case: Edit personal information 1. Click the profile button 3. Click “edit” button 5. Change the profile 6. Click the “submit” button	System Responses 2. Profile page shown 4. Edit profile page shown 7. Updated profile shown
4	Case: Reset password 1. Go to the login page 2. Click the “forget password” button 4. Enter the username and email 6. User receive the new password	System Responses 3. Forget password page shown 5. Server will send the new password to user
5	Case: Randomly find chat users 1. Go to the main page 2. Click the “Go” button 4. Click one of the user in the list 6. Click “chat” button	System Responses 3. A list of users will appear (10 users) 5. Personal information of the user will appear 7. Chat page will appear
6	Case: Send and receive messages 1. Click on the user 3. Click the “chat” button 5. Type in words and click “send”	System Responses 2. Show the user’s profile page 4. Display the chat room page 6. Receive message from one user and

	button 7. Receive the words displayed on the screen	display to the both users
7	Case: View others' open information 1. Click on the user	System Responses 2. Show the user's profile page
8	Case: Add people to friend list 1. Click on the user 2. Click on "add friend" button	System Responses 2. Show the user's profile page 4. Add the target to the user's friend list
9	Case: Send and receive pictures during chatting 1. Click on the user 3. Click the "chat" button 5. Click on the menu button and click the "Picture" button, choose picture and send	System Responses 2. Show the user's profile page 4. Display the chat room page 6. Receive pictures from one user and display to the both users
10	Case: Refresh stranger 1. Click on a button to refresh	System Response 2. Query for random people 3. Show the list of people
11	Case: Delete friend from chatlist 1. Click on friend list button 3. Click on one existed friend in list 5. Click delete button	System Response 2. Show up friend list 4. Show up the friend info page 6. Friend name disappear in list
12	Case: Block user by adding to blacklist 1. Click blacklist button 3. Click on add button 5. Enter user name	System Response 2. Show up blacklist 4. Show up blacklist user name dialog 6. Entered user name show up in blacklist
13	Case: Set my own account be invisible to others. 1. Click on profile button 3. Click on enable invisible button	System Response 2. Show up profile page 4. Status of visible set to invisible
14	Case: link to facebook 1. Click log in with facebook button 3. Type username and password	System Response 2. Show up facebook login page 4. Verify the login username and password correction 5. If correct show up main page 6. If not correct show up error message

15	Case: Manage user's account. 1. Click on user account list in database 3. Click on one account 4. Click on delete button	System Response  2. Show up user account table 5. Selected account disappear in account table.
16	Case: Reset my password. 1. Click on reset password button 4. Follow instructions to reset password	System Response 2. Shows dialog to reset password 3. Send an email with instruction to reset password to user
17	Case: Save user information in database -	System Response 1. Add user as a user object and other information as fields under it. 2. Add user object to parse databse
18	Case: Set different language 1. Click on language button 3. Select preferred language option	System Response 2. Show list of available language options 4. Translate strings 5. Transition to main page
19	Case: Get user location -	System Response 1. Retrieve user location using gps