"Bonjour" **Project Backlog**

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Problem Statement

As technology advances, people have been spending increasingly more time with the virtual world and to some extent, neglected to meet people who share similar interests near them. The "Bonjour" app, which we are to develop, aims to help people notice whether they have met anyone nearby who shares common interests with them. It also provides a chance for people to develop potential friendship with others.

Background Information

As is said, with the prevalence of mobile technology the virtual world is encroaching our real social life. Many software developers have noticed this, and tried to develop software to strengthen people's physical social connection. To make Bonjour stand out, we must beware similar apps in the market.

Applications like WeChat and WhatsApp have provided similar set of functionalities as Bonjour. They allow users to search and chat with nearby users, but do not provide any matching according to users' interests. But Bonjour will match users' common interest and display a list of potential friends.

Also, in those two apps, finding friends is mostly an add-on of the app, and users need to click the search button to perform searching. By contrast, in Bonjour, matching is the center, and is done automatically. Whenever there is someone who share's similar interests nearby, the application automatically matches the two users and send them a notification.

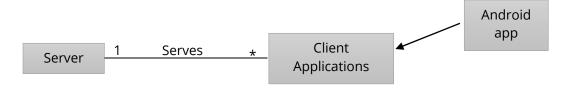
During later research of the project, we found that there is an app called Jack'd, which is similar to Bonjour in terms of functionality set. However, we have totally different target users. The target users of Jack'd are males who are willing to find male partners. For Bonjour, we do not limit our users, and does not encourage Jack'd's user pattern. Everyone who wishes to find new friends or project partners or any personal relationship can use Bonjour to their advantage.

Environment and System Model

Environment

- Client: Android 4.0.3 or newer, written in Java with Android SDK
- Server: PHP5 and MySQL5.6 on Apache 2 httpd

System Model: C/S architecture



Requirements

The requirements are categorized by the functional components of our application. Inside each major functional component, we have these types of requirements: functional requirements, and non-functional requirements, of which the latter includes software quality requirements, platform requirements, and process requirements.

User Identity

"User identity" is the set of functionalities the user identifies oneself with the application.

Basic properties:

- i. User email is a string of the form[-0-9a-zA-Z.+_]+@[-0-9a-zA-Z.+_]+\.[a-zA-Z]{2,4}
- ii. User password is a string of length 6 to 32, allowing special characters.
- iii. User nickname is a string of length 4 to 20 of the form[0-9a-zA-Z.+_]{4, 20}
- iv. User age must be within the range of 13 to 100.

Basic behavior:

- 1. user registration
- 2. user log in
- 3. password reset
- 4. profile update

The following is the list of user stories.

User.R01.Andro	User.R01.Android Not started								
As a user, I want to register my own account.									
Category	Functional	Priority		High	Hours	6			
	Related Use Cases: User	r.L01.Andro	id						
	Steps:								
	Actor actions		Sys	stem resp	onses				
	1. Click the register button and		2.	2. The register activity shows up					
	agree with terms and conditions		4. Move to the create profile UI						
User story	3. Enter the username and		6. Move to the photo upload UI						
Oser story	password and click "Ne	ext"	tions 4. Move to the create profile Ul	:he					
	5. Enter the basic user		scr	een					
	information and click "	Next"	10	Pop up	a register res	sult			
	7. Choose a photo on t	he phone	message and return back to the						
	9. Click the confirm reg	gister	log	gin page					
	button								
Comment									

User.L01.Androi	In Progress									
As a user, I want to log in with my account and password.										
Category	Functional	Priority	Normal	Hours	4					
	Related Use Cases: Steps: Actor actions		System resp	onsos						
User story	1. Run the app 3. Enter the username password, click "Log in		2. Login pag 4. Check the and passwo		name					
Comment										

User.RP.Android Not started									
As a user, I want to reset my password when I want to.									
Category	Functional	Priority		Low	Hours	5			
	Related Use Cases:								
	Steps:								
	Actor actions		System responses						
	1. Run the app		2. Home Page shows up						
Lisar star.	3. Click the "My Profile" button								
User story	4. Click "Reset Passwor	rd" and	5. 9	Send a lir	nk to user's ema	ail for			
	confirm		res	etting pa	ssword				
	6. Open email and res	et	7. 1	Replace t	he old passwor	d with			
	password by clicking o	n the link		new one					
	and setting new passw								
Comment									

User.RP2.Androi		Not started							
As a user, I want to reset my password when I could not log in.									
Category	Functional Priority Low Hours 3								
	Related Use Cases:								
	Steps:								
	Actor actions		System responses						
	1. Run the app			2. Home Page shows up					
User story	3. Click the "Reset my password"								
Oser story	link		4. 9	System a	sks for the em	ail			
	5. Type email address	and	address						
	confirm		6. Send a link to user's email for						
	7. Open email and res	et	resetting password						
	password by clicking on the link		8. Replace the old password with						

	and setting new password	the new one
Comment		

User.PU.Android Not started										
As a user, I want to view and update my profile.										
Category	Functional	Priority		Normal	Hours	7				
	Related Use Cases:									
	1. (User.RP.Androi	d) resetting p	oass	word						
	Steps:									
	Actor actions		System responses							
User story	1. Run the app		2. Home page shows up							
Oser story	3. Click the "My Profile	e" button	4. Provides user with the daily							
	5. Click on the edit pro	ofile button	matches and required							
	to add new information	n or	information							
	change existing ones		7. Update the database							
	6. Confirm changes		8.	Guide use	r to the Profile	e page.				
Comment										

Matching

The android app will collect the location information, and upload it to the server for matching purposes.

The basic behavior includes:

- Notification of location gathering
- Location gathering
- Showing a list of people nearby
- View the profile of those who are close to the user

Match.N1.Andro	Not started								
As a user, I want to be notified if my location information is gathered.									
Category	Functional	Priority		Normal	Hours	5			
	Related Use Cases:								
	Steps:								
	Actor actions			System responses					
User story	1. Open the Settings page			2. The Settings Page shows up					
	3. Click the checkbox	of location	4. Save the current preference to						
	information gathered		the local database						
	notification								
Comment									

Match.Lg.Android					Not started	l l			
As a user, I want to upload my location information to the server and see the result.									
Category	Functional	Priority		Normal	Hours	4			
	Related Use Cases:								
Licar stam.	Steps:								
User story	Actor actions			stem resp	onses				
	0. No specific actions needed								
Comment	(XB) We should provide	e a button to	ma	nually trigg	ger location (update.			

Match.PV.An	droid				Not started	b
As a user, I wa	nt to see those who are	close to me.				
Category	Functional	Priority		Normal	Hours	4
	Related Use Cases: Steps:					
User story	Actor actions 1. Run the app		2. F 3. T cur	he syster	onses e shows up m updates th ion and syn	
			4. R use		e list of nea	rby
Comment						

Match.PV2.Android					Not started					
As a user, I want to view the profiles of those who are close to me.										
Category	Functional	Priority		Normal	Hours	8				
User story	Related Use Cases: 1. (User.PU.Androi Steps: Actor actions 2. Click on the notification in turn opens the apposite apposite who share simple interests. 4. Click on a particular avatar to view profile 5. Check out the profile initiate a chat with the user	tion which f the hilar user le and e match	Sy 1. th sir 5. frc	stem resp Send user at someor nilar inter Extract ma om databa formation	onses a push notificate near them sests atched user puse and send	shares rofile				
Comment	(XB) The user can also	view the pro	file l	by clicking	the avatar of	the user				

list in the homepage.

C/S Communication

This section discusses user stories about communications between the server and client.

Comm.N.Andro	id			Not started	<u> </u>					
As a user, I want to be pushed notification when there are new matches.										
Category	Functional	Priority	Low	Hours	5					
	Related Use Cases	S:								
	Steps:									
	Actor actions	System responses								
User story	1. Open the Setti	ngs Page	2. The setting page shows up							
	3. Click the check	box of push	4. Save the	current prefe	erence to					
	notification wher	n there are new	the local database							
	matches									
Comment										

Comm.Noff.Android					Not started			
As a user, I want to turn off push notification for whatever reason I have.								
Category	Functional	Priority	Normal	Hours	3			
	Related Use Cases:							
	1. (Comm.N.Android) Allowing push notifications							
User story	Steps:							
	Actor actions		System responses					
	1. Open the Setting Page		2. The Setting Page shows up					
	3. Click the checkbox of the push		4. Save the current preference to					
	notification function to	o cancel	the local dat	abase				
	the checkbox							
Comment								

Comm.enc				Not started		
As a user, I want my user data well protected.						
Category	Software Quality	Priority		Normal		
User story	Related Use Cases:					
	Steps:					
	Actor actions	Actor actions		System responses		
	No actions required	No actions required		No particular response needed.		
Comment						

Match.Lg2.Android	Not started			
As a user, I want to have location gathering to be power saving.				

Category	Software Quality	Priority		Normal	
	Related Use Cases:				
User story	Steps:				
	Actor actions		System responses		
	No specific actions needed.		The server adjusts location		
			gathering at periodic intervals,		
			based on the battery level.		
Comment					

Other General, Non-functional Requirements

The following non-functional requirements apply to all the components of the project and must be pondered over at each step.

- 1. **Security**. Information that needs to be restored will be encrypted by RSA algorithm, while non-restorable information will be encrypted by MD5 algorithm. The request of information will need clearly defined permission level to be performed.
- 2. **Power Saving**. If not designed will, the app may become a battery killer and this point may account for most complaints we could receive.
- 3. **Stress**. Carefully design the algorithm so that the matching and listing operations will not cause the server and client to crash.
- 4. **Accuracy**. Be sure to enhance the accuracy of location information with the help of Wi-Fi and Bluetooth. Accurately reporting location is critical to the app.