"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.

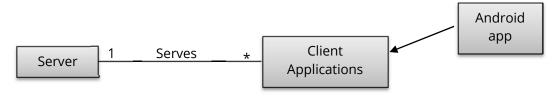
During later research of the project, we found that there is an app called Jack'd, which is similar to Bonjour in terms of functionality set. However, we have totally different target users. The target users of Jack'd are males who are willing to find male partners. For Bonjour, we do not limit our users, 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:

- a. User email is a string of the form [-0-9a-zA-Z.+_]+\.[a-zA-Z]{2,4}
- b. User password is a string of length 6 to 32, allowing special characters.
- User nickname is a string of length 4 to 20 of the form [0-9a-zA-Z.+_]{4, 20}
- d. 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.Android					Done		
As a user, I want to	register my own accour	it.					
Category	Functional	Priority	Hig	gh	Hours	6	
	Related Use Cases: Use	r.L01.Androi	d				
	Steps:						
	Actor actions			System responses			
	1. Click the register button and		2. The register activity shows up				р
User story	agree with terms and conditions			4. Move to the create profile UI			
	3. Enter the username and password and click "Next"		6. Move to the photo upload UI				
	5. Enter the basic user		8. The photo shows on the				
	information and click "Next"		screen				
			10. Pop	o up a	register re	sult	

	7. Choose a photo on the phone9. Click the confirm register button	message and return back to the login page
Comment		

User.L01.Androi			Done				
As a user, I want to	o log in with my account	and passwo	rd.				
Category	Functional	Priority	Normal	Hours	4		
	Related Use Cases: Steps:						
	Actor actions	ctions		System responses			
User story	 Run the app Enter the username and the password, click "Log in" button 		and passwo	e shows up validity of use rd, log into the hows a failure	<u> </u>		
Comment					•		

User.RP.Andro		Done			
As a user, I want	to change my passwo	rd when I want t	to.		
Category	Functional	Priority	Low	Hours	5
	Related Use Cases: Steps:				
	Actor actions	System responses			
User story		ige shows up the old passy			
	4. Enter the previo	the new on	•		
	5. Click the "Confirm Change"				

	button	
Comment		

User.RP2.And	roid				Done		
As a user, I wan	nt to reset my passwor	d when I could n	ot log	g in.			
Category	Functional	Priority		Low	Hours	3	
	Related Use Cases Steps:	5:					
	Actor actions		System responses				
User story	1. Run the app	un the app		2. Home Page shows up			
	3. Click the "Reco			4. System asks for the email			
	5. Type email address and			address			
	confirm 8. Answer the question			return a the user	security ques	stion set	
			7. display the question				
				_	e answer, if content the new		
Comment							

User.PU.Android				Done	
As a user, I want to	view my profile.				
Category	Functional	Priority	Normal	Hours	7
User story	Related Use Cases: Steps: Actor actions 1. Run the app 3. Click the "My Profile	e" button	System responses 2. Home page 4. Provides uand edit pro	ge shows up user's information	on

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
- Matching between 2 users.

Match.Lg.And		Done			
As a user, I wai	nt to upload my locatio	n information to	the server an	d see the re	sult.
Category	Functional	Priority	Normal	Hours	4
	Related Use Cases Steps:	:			
User story	Actor actions 1. Click the "Matc the Navigation Di 3. Enter the matc click the confirm	rawer hing range and	2. Matchings dialog prom matching ra 4. Client upoinformation request to the screen	s Page shows pts out to as nge (in mete lates the loc and send th ne server	sk the r) ation e
Comment	(XB) We should provide a button to manually trigger location update.				

Match.PV.Android			Done			
As a user, I want	to see those who ar	e close to me.				
Category	Functional	Priority	Normal	Hours	4	
User story	Related Use Case	S:	•	•	•	

Steps:	
Actor actions	System responses
1. Click the "Matchings" buttor the Navigation Drawer 3. Enter the matching range are click the confirm button	dialog prompts out to ask the
	5. Matched users show up on the screen
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.
- 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.