

“Bonjour” High-Order Testing

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Team 7 Members:

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Usability Testing

Reactions & comments:

Name	Reactions	Comment
Peng Liang	<ol style="list-style-type: none">1. Registration does not cause any problem to him2. Login does not cause any problem to him3. The whole application is working pretty well to him.	<ol style="list-style-type: none">1. There are too little information about other users2. The side bar is hard to recognize
Qianli Ma	<ol style="list-style-type: none">1. Seemed confused when first using the application2. Feel frustrated when finding that he has to upload a profile picture in order to register.3. Does not notice the side bar before we mention about it.4. Does not really know what the application is trying to match.5. Have no problem viewing user profiles.	<ol style="list-style-type: none">1. Should not force the users to upload user picture.2. Side bar is hard to recognize3. Should provide more guides to introduce how to use the application
Zhaowei Liang	<ol style="list-style-type: none">1. Feel confused about the aim of the application2. Feel confused about the user profile3. Does not really know what the application is trying to match	<ol style="list-style-type: none">1. The helping page is too simple2. The user profile should display the interest of the user.3. Should include a guide to introduce how to use the application
Xinjie Lei	<ol style="list-style-type: none">1. Feeling frustrated about uploading user profile2. Feel confused about the user profile3. Does not notice the side bar before we told her4. Doesn't seem like the button design	<ol style="list-style-type: none">1. Should make the side bar more clear2. The user profile included too little information3. Should not force the users to upload photos4. The UI design of registration page is pretty

		good
Luyang Wang	<ol style="list-style-type: none"> 1. Doesn't really like the UI design 2. Feel frustrated about uploading user profile. 3. Feel confused about the matching 	<ol style="list-style-type: none"> 1. The design is not consistent enough 2. It is not a good idea to force the users to upload profile picture 3. Should explain a little bit more about what the matching is about 4. Should allow the users to modify their own user profile
Honkwan Wu	<ol style="list-style-type: none"> 1. Doesn't want to upload profile picture 2. The matching result is kind of confusing 3. Does not notice the side bar before we told him 	<ol style="list-style-type: none"> 1. Better allow users to choose whether upload their own picture or not 2. Should have a clear guide about how to use the application 3. The UI design is pretty good, but can be more consistent.

Questionnaire Analysis

(Questions and result are shown in CS408_Survey.xlsx)

1. Half of the testers often use similar mobile application and are quite familiar with that.
2. For most of the testers, they think that the UI is sort of consistent and clear but still need further improvement. It is also not very attractive to most of them.
3. For the application itself, everyone agrees that the application is running smoothly without causing any crashes. However, most of

them feel quite confuse about what the application is doing and what it is matching.

4. Most of the testers believed that the application could not help them to find friends that share similar interest with them. A few people believe that it may help them to find some new friends nearby. Most of them believe that they will not use this application to help them find friends in the future.

Defects:

#Defect	Defect	How to correct	Severity
1	Users must upload a profile picture in order to finish the registration	If no picture are updated, the system use default image instead. Now the app no longer requires users to upload an avatar.	2
2	Not enough guidelines to teach the users how to use the application	Displays a simple guideline page after the user successfully registers for an account.	2
3	The side bar is hard to find	Mention this in the guideline page.	2
4	The user profile includes too little information	Display the hobbies of the users in user profile page.	2
5	The user cannot modify their profile.	Allow users to modify their profile.	1
6	The design of some pages is not consistent with others	Re-design the UI for those pages.	3
7	Some suggested to add a crop and preview widget when uploading avatars.	May consider adding such functionality, but this is not of highest importance yet.	1

Security Testing

Reason: The security concern of a client-server architecture app is a significant part that needs to be cared about. A security bug of a program can cause the phone or server be attacked seriously. Therefore, it is very important for us to do security testing on our application.

Testing Strategy: The testing on security mainly focused on 2 aspects.

The first one is by checking the API of the application to see whether there exists any security defect (e.g. encryption, password, etc.). The second one is by doing SQL injection to both client and server to see whether there exists any defects.

#Defect	Defect	How to correct	Severity
1 *	The password that sent to the server is not encoded by any security algorithm	Change the API of both client and server to encode the password and store in the server	2
2	When a user tries to connect to the server, the connection is not SSL encoded	Create an SSL connection between server and client	3
3 *	An injection of the SQL query is not filtered by the client side, therefore only	Client side can do some pre-filter of SQL query to ensure a malicious query will	3

	the server side checks the request	not be sent by the client	
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* Some were intentionally left as part of the 50 injected bugs.

Compatibility Testing

Reason: Compatibility testing is an essential part of testing for any application. The reason why we chose to do compatibility testing is because as we have a social application, it is very important that the application functions smoothly on the different types of devices (i.e. differences in: pixel density, processing speed, hardware configuration, etc.) running different versions of the Android operating system. It is important that the application is consistent over this very large area.

Testing Strategy: The application was tested was by using different emulator configurations on Eclipse. The main focus was making sure that everything looks exactly the same on every device without crashing or seeming cluttered or mashed up together.

#Defect	Defect	How to correct	Severity
1	On the Kindle Fire, the application crashes when it is rotated from vertical to horizontal	Fixed by adding layout-land sub folder under res folder	2
2	On Nexus One, application Logo on login screen	Added a high definition	3

	appeared blurred	picture of the logo	
3	On Galaxy Nexus, all of the interface for matches page was getting cluttered up	Changed relative layout to linear layout	2