"Bonjour" **Defect Logs**

Last Revised: February 7, 2014

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Overview

Purpose

- This document is to record all the defects found during inspections.
- In the log, the "product" always refers to the Bonjour application.

Design Inspection Defects

Inspection d1

Summary

• Product: Bonjour / Product Backlog

Date: Feb 03, 2014Author: Bonjour TeamModerator: Yudong Yang

• Inspector: Xiangyu Bu, Yik Fei Wong, Rishabh Mittal

• Recorder: Yudong Yang

Defects

#	Severity	Description	Solution
1	2	"My Profile" should not display daily matches. The daily matches should be displayed in the homepage already.	Daily Matches have been removed and only required information will be shown.
2	3	The token to identify a user is not clear. The algorithm is not well defined.	Will address the issue in the server code inspection.
3	2	After some experiment, we found it is easier for PHP to process POST requests directly than to process JSON formatted data.	We changed the spec to: Client send POST data to server (the query is small amount of data), and server send JSON data to client (the response can be huge amount of data).
4	1	The matching algorithm is not clearly defined.	The matching should be based on user's interests. It will show the best 3 matches within a certain distance (i.e. 500m) to the users.

Notes

Inspection d2

Summary

• Product: Bonjour / UserIdentity Module

Date: Feb 04, 2014Author: Bonjour TeamModerator: Yik Fei Wong

• Inspector: Xiangyu Bu, Yudong Yang, Rishabh Mittal

• Recorder: Yudong Yang

Defects

#	Severity	Description	Solution
1	1	The brute-force lock function was missing in the functional requirement. When the guest tried to log in with wrong password for five times, the account should be locked and the user be notified.	Added to functional requirement.
2	1	The server does not support sendmail (forbidden by policy).	Considered to buy a new server.
3	1	It is not explicitly forbidden that only guests (un-loggedin users) can register.	Only guests can log in or register.

Notes

Inspection d3

Summary

• Product: Bonjour / Testing Environment, others

Date: Feb 06, 2014Author: Bonjour TeamModerator: Xiangyu Bu

• Inspector: Xiangyu Bu, Yudong Yang, Yik Fei Wong

• Recorder: Yudong Yang

#	Severity	Description	Solution
1	1	The local test environment is	Considered to buy a new server.

		more advanced than the server	
		available. This causes some	
		incompatibility and overheads	
		to change code to adapt to	
		both.	
		It seems not necessary to	Will try to combine them and see
2	1	separate Login class and	how things work.
		Register class.	(Update: re-addressed in c2/#6)

Code Inspection Defects

Inspection c1

Summary

• Product: Bonjour / Server Side

Date: Feb 06, 2014Author: Bonjour TeamModerator: Xiangyu Bu

• Inspector: Yudong Yang, Yik Fei Wong,

• Recorder: Xiangyu Bu

#	Severity	Description	Solution
		Server cannot correctly parse	PHP does not, by default, parse
1	3	the POST request sent by the	POST strings when the doctype is
'		Android client.	application/x-www-form-
			urlencoded. Manually fixed.
		The server side token	We decided to use the built-in
2	2	generation algorithm is not	functions password_hash and
2		designed yet.	password_verify to process
			token hashing. Implemented.
		Error handling mechanism on	Added debug mode for the major
		server is not well defined. This	classes implemented.
3	3	will hurt testing in the future.	Defined error code for client to
3	5		parse server error code.
			Error code is used when debug
			mode is off.
4	1	There is no algorithm for	Added.
4	l	handling user logout operation	

		yet.	
F	1	The server code was not well	Added more comments in the
)	ı	documented.	code.

Inspection c2

Summary

• Product: Bonjour / Server Side

Date: Feb 07, 2014Author: Bonjour TeamModerator: Xiangyu Bu

• Inspector: Yudong Yang, Yik Fei Wong

• Recorder: Xiangyu Bu

• Note: Inspection c2 was in parallel with ut2.

#	Severity	Description	Solution
1	3	Server cannot correctly parse the POST request sent by the Android client.	PHP does not, by default, parse POST strings when the doctype is application/x-www-form-urlencoded. Fixed by adding a function Core::getPOST.
2	2	The server side token generation algorithm is still a stub yet.	We decided to use the built-in functions password_hash and password_verify to process token hashing. Implemented.
3	3	Error handling mechanism on server is not well defined. This will hurt testing in the future.	Added debug mode for the major classes implemented. Defined error code for client to parse server error code. Error code is used when debug mode is off.
4	1	There is no algorithm for handling user logout operation yet.	Added.
5	2	In Login::verifyToken, the member \$user_profile was not updated correctly.	Fixed.

		The code was not well- organized to fit each functional	Will reorganize the classes in the next few days.
6	1	group. The functions in Login and Register classes overlap.	(Update: fixed.)
7	1	The verification patterns should be moved to Core class.	Will address in the next push.
8	2	The error handling, which reads variables from a class object to report the error message when the operation returns false, is not satisfactory.	Will implement with PHP's Exception mechanism in the next release.

Inspection c3

Summary

• Product: Bonjour / Client Side

Date: Feb 07, 2014Author: Bonjour TeamModerator: Xiangyu Bu

• Inspector: Yudong Yang, Yik Fei Wong

• Recorder: Yik Fei Wong

• Note: Inspection c3 followed c2.

#	Severity	Description	Solution
		The app client does not have a	Add the uses-permissions of
1	1	permission to connect to the	networking (INTERNET,
'	l I	network when the network is	ACCESS_NETWORK_STATE) into
		available on the phone	AndroidManifest.xml
	2	The signup page does not have	Save the Signup Fragment
2		the code to handle the	variable and restore it when the
		orientation of the phone	orientation is changed
		correctly	
3	2	The app client does not have	Add the isNetworkAvaliable
		the code to check the network	function to check the network
		availability before connecting	before connecting to the server

Unit Testing Defects

Inspection ut1

Summary

• Product: Bonjour / Server Side

Date: Feb 05, 2014Author: Bonjour TeamModerator: Xiangyu Bu

• Inspector: Xiangyu Bu, Yudong Yang

• Recorder: Xiangyu Bu

#	Severity	Description	Solution
1	3	Password verification behaves differently on various servers. (The code does not work on remote server whose PHP is 5.3.)	The function used to verify passwords with the hash, password_verify(), is introduced in relatively new PHP 5.5. Included a compability library srv/include/lib.password.php to ensure compatibility.
2	3	Unit test the Core::getAccessToken function and it always returned a null value regardless of the user profile.	The predefined salt algorithm Core::getSalt() does not fit the requirement. Use PHP default generator instead. Fixed.
3	2	Unit test Database::updateQuery() and Database::deleteQuery(), both failed, regardless of the input.	The two tested functions are just wrappers of the buggy function insertQuery().
4	3	Unit test Database::insertQuery() and it failed.	The object was freed prematurely. Fixed the bug and so fixed #2.
5	1	When unit testing the Database controller class, no queries show error even when there was supposed to be errors.	The server hides all errors for security reason. Enabled error reporting to fix this.
6	3	Unit test the user registration	There was a typo in the SQL

function	string. Fixed.
Register::registerNewUser(),	
the tester gets successful return	
but the data was not stored to	
database.	

- Don't forget to disable all error reporting mechanisms.
- (Feb 07, 2014) The Register class and Login classes have been combined.

Inspection ut2

Summary

• Product: Bonjour / Server Side

Date: Feb 07, 2014
Author: Bonjour Team
Moderator: Xiangyu Bu
Inspector: Yudong Yang
Recorder: Yik Fei Wong

#	Severity	Description	Solution
		When unit testing the Core	Added extra salt so the username
1	2	class, the getAccessToken	to hash will never be empty
'		function failed when username	inside the function. Fixed.
		is an empty string.	
		Unit test the function	Added a checking condition. If
2	3	Core::getPOST(\$str), and	\$str is not an element in \$_POST,
	3	found that it returns error	return null.
		when \$str is not set in \$_POST.	
		Unit test the function	Fixed the SQL query.
		Login::logOut() and found	
3	3	that the database was not	
		correctly updated when the	
		request was valid.	
		Unit test the function	Added a json response regardless
		Login::logOut() using faker	of the user state. However, only
4	1	and the function returned	when the user is logged in he /
		nothing for a guest.	she can really perform logout
			operation.
5	1	Unit test the function	PHP session expired.

Login::logOut() using faker	Changed the mechanism to run-
and found that after long time	time checking and performing.
inactivity triggering this	
function will cause database	
query error.	

• Don't forget to disable all error reporting mechanisms.

Inspection ut3

Summary

• Product: Bonjour / Client Side

• Date: Feb 07, 2014 • Author: Bonjour Team • Moderator: Yik Fei Wong • Inspector: Yudong Yang • Recorder: Yudong Yang

Defects

#	Severity	Description	Solution
1	1	Unit Test the Function: APIHandler.login() function	Change the function to only encode parameters of login and
		encodes whole post request	add them to the request String
		string, but it only needs to encode parameters	
2	2	Unit Test Sign Up Detail	Add an additional function to
		Fragment, invalid email	check the format of email
		address like "_@." cannot be	addresses rather than just check
		detected	the At sign
3	2	Unit Test Sign Up Upload	Add a checking function to show
		Fragment, when no image on	up error message when no image
		the phone, the app does not	on the phone
		have error message shows up	

Notes