

"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, 2014
- Author: Bonjour Team
- Moderator: 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, 2014
- Author: Bonjour Team
- Moderator: 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.

Notes

Inspection d3

Summary

- Product: Bonjour / Testing Environment, others
- Date: Feb 06, 2014
- Author: Bonjour Team
- Moderator: Xiangyu Bu
- Inspector: Xiangyu Bu, Yudong Yang, Yik Fei Wong
- Recorder: Yudong Yang

Defects

#	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.	
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Notes

Code Inspection Defects

Inspection c1

Summary

- Product: Bonjour / Server Side
- Date: Feb 06, 2014
- Author: Bonjour Team
- Moderator: Xiangyu Bu
- Inspector: Yudong Yang, Yik Fei Wong,
- Recorder: Xiangyu Bu

Defects

#	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. Manually fixed.
2	2	The server side token generation algorithm is not designed 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.

Notes

Inspection c2

Summary

- Product: Bonjour / Server Side
- Date: Feb 07, 2014
- Author: Bonjour Team
- Moderator: Xiangyu Bu
- Inspector: Yudong Yang, Yik Fei Wong
- Recorder: Xiangyu Bu
- Note: Inspection c2 was in parallel with ut2.

Defects

#	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 <code>Core::getPost</code> .
2	2	The server side token generation algorithm is still a stub yet.	We decided to use the built-in functions <code>password_hash</code> and <code>password_verify</code> 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 <code>Login::verifyToken</code> , the member <code>\$user_profile</code> was not updated correctly.	Fixed.
6	1	The code was not well-organized to fit each functional group. The functions in <code>Login</code>	Will reorganize the classes in the next few days.

		and Register classes overlap.	
7	1	The verification patterns should be moved to Core class.	Will address in the next push.

Notes**Inspection c3****Summary**

- Product: Bonjour / Client Side
- Date: Feb 07, 2014
- Author: Bonjour Team
- Moderator: Xiangyu Bu
- Inspector: Yudong Yang, Yik Fei Wong
- Recorder: Xiangyu Bu
- Note: Inspection c3 followed c2.

Defects

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

Notes**Unit Testing Defects****Inspection ut1****Summary**

- Product: Bonjour / Server Side
- Date: Feb 05, 2014
- Author: Bonjour Team

- Moderator: Xiangyu Bu
- Inspector: Xiangyu Bu, Yudong Yang
- Recorder: Xiangyu Bu

Defects

#	Severity	Description	Solution
1	3	Password verification behaves differently on various servers.	The function used to verify passwords with the hash, <code>password_verify()</code> , is introduced in relatively new PHP 5.5. Included a compability library <code>srv/include/lib.password.php</code> to ensure compatibility.
2	3	Unit test <code>Database::updateQuery()</code> and <code>Database::deleteQuery()</code> , both failed.	The source is a bug in <code>insertQuery()</code> .
3	1	Unit test <code>Database::insertQuery()</code> and it failed.	Fixed the bug and so fixed #2.
4	2	When unit testing the Database controller class, no queries show error.	The server hides all errors for security reason. Enabled error reporting to fix this.

Notes

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

Inspection ut2

Summary

- Product: Bonjour / Server Side
- Date: Feb 07, 2014
- Author: Bonjour Team
- Moderator: Xiangyu Bu
- Inspector: Yudong Yang
- Recorder: Yik Fei Wong

Defects

#	Severity	Description	Solution
1	3	When unit testing the Core	Added salt so the username to

		class, the <code>getAccessToken</code> function failed when the username is an empty string.	hash will never be empty inside the function. Fixed.
2	3	Unit test the function <code>Core::getPost(\$str)</code> , and found that it returns error when <code>\$str</code> is not set in <code>\$_POST</code> .	Added a checking condition. If <code>\$str</code> is not an element in <code>\$_POST</code> , return null.
3	3	Unit test the function <code>Login::logout()</code> and found that the database was not correctly updated.	Fixed the SQL query.
4	1	Unit test the function <code>Login::logout()</code> using faker and the function returned nothing for a guest.	Added a json response regardless of the user state. However, only when the user is logged in he / she can really perform logout operation.
5	1	Unit test the function <code>Login::logout()</code> using faker and found that after long time inactivity triggering this function will cause database query error.	PHP session expired. Changed the mechanism to run-time checking and performing.

Notes

- 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: <code>APIHandler.login()</code> function encodes whole post request	Change the function to only encode parameters of login and add them to the request String

		string, but it only needs to encode parameters	
2	2	Unit Test Sign Up Detail Fragment, invalid email address like "_@." cannot be detected	Add an additional function to check the format of email addresses rather than just check the At sign
3	2	Unit Test Sign Up Upload Fragment, when no image on the phone, the app does not have error message shows up	Add a checking function to show up error message when no image on the phone
4			
5			

Notes