Defect #	Defect Description	Correction	Module in which the defect is found	Severity (S1, S2 or S3)
White Box Testing Defects				
1	server side does not check for maximum size of the password	make a extra condition to check if the password lenghth is less than 32	Server - User.php	S2
2	For the birthday, they don't check for the string length to see if the string date was splited correctly, with 3 fields	Check the length of the string when spliting the string date	Server - Core.php	S1
3	When valitading the password, it allows to passwords with 33 characters	In Core.php change the condition $len <= 33 to $len <= 32	Sever - Core.php	S2
4	The userid causes overflow if a value greater than int value is entered	Change the userid to long instead of int	Client - SQLHandler.java	S2
5	Login failed because of not escaping username characters properly	Add double quotes around username in setUserAccessToken() funciton	Client - SQLHandler.java	S1
6	Server is set to debug mode. May not be an issue for now, since it is not a webpage, but just to improve performance, it is good to not use debbug in production.	Set debug mode to false	Server - conf.inc.php	S3
7	The password is set to 4 characters which causes error	set the password length to 6	Client - LoginActivity.java	S2
8	On verifyToken, the token, how it is explained in the code and it pretends to be used to see if the user can log in, it never realy checks if the token is valid, just if it exist.	Check if the token is a valid token.	class.User.php	S2
9	In addFriend if bundle is null it gives NullPointerException	check for null value	Client - SQLHandler.java	S3
10	The user name inserted into the database is the first part of the e-mail before "@". ex: max@gmail.com, username: max	To instinguish between email and username, implement field to get a username, check if it is valid, them insert it in the database. All function that deals with user data should be also updated.	Client - APIHandler.java	S3

		On devices with Android 4.4.2, rotate screen with "Profile" fragment open will cause the app to crash	Save reference to parent activity in onAttach() callback instead of using this.getActivity()	Client - UserProfileFragment.java	S2
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Black Box Testing Defects

Defect #	Defect Description	Correction	Module in which the defect is found	Severity (S1, S2 or S3)
1	Email addresses with same username but different domain fail to register (i.e. if I register helloteam7@gmail.com first, then register helloteam7@outlook.com, it will fail)	Not run substring on String userName in register() function	Client - APIHandler.java	S2
2	When attempting to register, if only entering partial information in the "Detail Information" section (for example, only entering a hobby) the application will have an unrecoverable crash.	Check whether age field is empty or not because convert it to type Integer	Client - SignupDetailsFragment.java	S1
3	When attempting to register, the "Detail Information" section is improperly titled the "Detail Inforamtion" section.	Fix spelling error in strings.xml	Client - SignupDetailsFragment.java / strings.xml	S3
4	When trying to "retrieve lost password", incorrect username is passed to the server. (should be email address without "@domain.com")	In AsyncTask RetrieveQuestionTask, trim out the part starting at "@" sign	Client - FindPasswordActivity.java	S1
5	When starting to create a account it does not ask to accept term and aggreements as specified on product backlog	Add a new fragment/activity that shows the terms and conditions and prompts user to accept it before letting user to register	Client - SignupActivity.java	S2
6	When creating a new user, there is no "next button" as it says on product backlog	Add a Button inside the SignupActivity so that it triggers ViewPaper to switch Signup fragments	Client - SignupActivity.java	S3
7	When retrieving user's profile from server, no login credential is verified by the server (sniffed using Wireshark)	Add code to verify user's auth token in "getProfile" section of action.php on server	Sever - action.php	S1 (Security issue)

8	When uploading a big picture, the app crashes	Notify user image is too large (4096x4096 limit) and recover gracefully	Client - SignupUploadFragment.java	S1
9	Range field on matchings does not restrict search results (same results for 1m as 200m when standing significantly more than 1m away)	Change server query to limit results by distance <= range	Server - class.User.php	S2
10	Matchings shows more than the maximum number of users allowed (should be 3 according to backlog; receive entire list of users)	Limit displayed results to top 3 sorted by distance	Client - MatchingsFragment.java	S2
11	If click "Register Account" button multiple times, the app will show "registration failed" and crash later on, but the account is actually successfully regsitered	Make register button unclickable so that there won't be mutltiple registering tasks being fired when there is already one running in the background	Client - SignupDetailsFragment.java	S2
12	Clicking the avatar of users returned by matchings does nothing, preventing viewing profiles or testing chat functionality.	n/a (viewing other users' profiles and chat functionality cannot be found in source code to fix)	n/a	S1
13	Underscores are not allowed in the domain name of email addresses (hello@gm_ail.com)	When checking of email is in a correct format, check the string matches with the patter a-zA-Z	Client - SignupDetailFragment.java	S2
14	While creating a new account, it allows passwords with withespace	check if there is whitespace on password before inserting into the database	Client - SignupDetailFragment.java	S2
15	User hobbies are always "cs"	Passing hobby String to server in client	Client - APIHandler.java, SignupDetailsFragment.java	S2
16	The server allows user to login in different devices with same account	Verify whether access token has been used when login	Server - action.php	S3
17	The system does not send a random password to user's email address when resetting password before logged in, instead it prompts user to enter a new password	Implement the functionality according to product backlog	Client - FindPasswordActivity.java	S3 (doesn't match with product backlog)
18	Size restriction on end of email domain is not upheld (.commm)	Check the domain size when checking the perameters berofe registering a new user.	Client - SignUpDetailFragment.java	S2
19	when trying to put a password with 32 character, it was not possible	Fix password length restrictions	Client - SignupDetailsFragment.java	S2

20	Alpha channel of uploaded image is discarded - transparent part of the image is replaced by black	Check whether user icon file is png file, if it is then send the image data directly to the server (so that alpha channel can be preserved), otherwise convert the image to png before sending	Client - SignupUploadFragment.java, SignupDetailsFragment.java, APIHandler.java	S3
21	If the user did not set security question, when resetting password before loggining, the app just says "Security question retireve failed", instead of generating a new one and sending it to user's email address according to the backlog	Implement the functionality according to product backlog	Client - FindPasswordActivity.java	S3
22	When changing password, it is possible to put whitespace characters	Check whether there is a whitespace in typed password	Client - ChangePasswordFragment.java	S2
23	Incorrect profile information is returned by server (new birthday field - not prompted for user to enter when registering, hobby field - seems like always being set to "cs" no matter what user enter, phone field - seems to be empty, not prompted for user to enter when registering)	In client passing those missing parameters to server	Client - APIHandler.java, SignupDetailsFragment.java	S2
24	When Trying to create a new account with an e-mail already used to create an account, the app say it was not possible but after some seconds the app crashes	Not reproducible	n/a	S1
25	If the user did not answer security question, when resetting password before logging in an empty answer is not accepted.	Force security question to be answered to register	Client - SignupDetailsFragment.java	S2
26	When logged in, resetting the password to something greater than 32 characters is accepted; furthermore, since the password is now longer than the maximum, it is then impossible to log back into the app	In Core.php, change the condition $len <= 33 to $len <= 32	Server - Core.php	S1 (due to blocked login)

27	Failed to update profile because the server always complaining "birthday format is not valid", and birthday is not even mentioned in the product backlog	In client side, notify user of the correct format which is "YYYY-mm-dd" when user doesn't have the correct format	Client - EditProfileActivity.java	S1
28	User nickname is not a given field in registration or in editing profile	Implement those fields in client side	Client - SignupActivity.java, EditProfileActivity.java	S2
29	Although the UI for updating profile allows user to update security question and its answer, however, this information does not seem to be the query that is sent to the server	Not producible	n/a	S2
30	It is possible to create a account with age bigger than 100	Verify age >= 13 or age <= 100 before sending to server	Client - SignupDetailsFragment.java	S2
31	Trying to edit the profile without internet, the app crashes	Before updating the profile, check if there is internet available.	Client - EditProfileActivity.java	S1
32	When inserting a letter on the field for matching range field the app crashes	catch the exception when trying to parse a string to a Integer before when getting the user input.	Client - MatchingFragment.java	S2
33	Attempting to get matchings seems to randomly cause unrecoverable crashes	Not reproducible in 10 attempts (guessing due to difference between black box/white box versions)	n/a	S1
34	There is no button to manual update the user location	Won't fix because not implmented in source	n/a	S3
35	The app doesn't seem to update user's location automatically (or we haven't waited long enough)	Not implemented in source	n/a	S2
36	It is not possible to submitt profile changes two times without closing the profile change screen and open it again	Do not disable the confirm button after trying to insert, failing or going well	Client - EditProfileActivity.java	S2
37	Login screen image is misplaced in phone with Android 4.0	Won't fix because backlog says it runs on Android 4.0.3 or newer	n/a	S3
38	App runs on Android 4.0 (backlog says android 4.0.3 or newer)	Change android:minSdkVersion from 14 to 15	Client - AndroidManifest.xml	S3

39	Matching only work once (goes to matching, then switch to profile, and again switch to matching, it fails to function)	Not reproducible (source file differs is different from the apk file used for blackbox testing)	n/a	S2
40	When logged in, rotating the phone between portrait and landscape modes will reset the app to the Home logged in screen	Save selected fragment index in onSaveInstanceState() callback and check whether there is fragment selected in onCreate() callback (if it has, call selectItem())	Client - HomeActivity.java	S2
41	user credentials revealed on server connection failure	Remove credentials	Server - class.Database.php	S2