Test Plan for Bonjour

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A. Test Case 0001, Application start, Severity level: Critical.
B. Launch the app.
C. The result should be the app starting to boot up and showing a login page.

A. Test Case 0101, Start registration, Severity level: Critical.
B. Launch the app, click Register button and agree with terms and conditions.
C. The result should be registration activity showing up.

A. Test Case 0102, Register with username and password, Severity level: Important.
B. In the registration activity, enter valid username and password and click Next.
C. The result should be create profile screen showing up.

A. Test Case 0103, Register with basic user information, Severity level: Important.
B. In the create profile screen, enter valid basic user information and click Next.
C. The result should be photo upload screen showing up.

A. Test Case 0104, Upload user photo for registration, Severity level: Important.
B. In the photo upload screen, choose a valid photo on the phone.
C. The result should be the exact same photo showing up in the photo upload screen.

A. Test Case 0105, Confirm registration, Severity level: Important.
B. After uploading user's photo, click Confirm button.
C. The result should be a message showing whether the registration is succeeded or not and returning back to the login page.

A. Test Case 0201, User Login with valid input, Severity level: Critical.
B. Launch the app, in the login screen, enter valid username and password, and click Login button.
C. The result should be that the user is logged into the account.

A. Test Case 0202, User login with invalid input, Severity level: Important.
B. Launch the app, in the login screen, enter invalid username and password, and click Login button.
C. The result should be a failure message should be shown.

A. Test Case 0301, Reset password after already logged in, Severity level: Important.
B. Launch the app, in My Profile under Home Screen, click Reset Password and confirm.
C. The result should be user should receive an email about resetting password.

A. Test Case 0302, Setting a new password after receiving the password-resetting email, Severity level: Critical.
B. Open email and click the link of resetting password, and set a new password in the newly open window.
C. The result should be the old password should be invalid for logging in and the new password can be used to log in successfully.

A. Test Case 0311, Reset password before logging in with security question set, Severity level: Critical.
B. Launch the app, before logging in, click Reset my password, enter a valid email address used for registration when prompted by the system.
C. The result should be the system prompts user to enter answer for the security question.

A. Test Case 0312, Answer the security with valid answer, Severity level: Critical.
B. When prompted by the system to ask answer for the security question, enter the valid answer.
C. The result should be the system generates a random password and sends it to user's email.

A. Test Case 0313, Answer the security with invalid answer, Severity level: Critical.
B. When prompted by the system to ask answer for the security question, enter an invalid answer.
C. The result should be a shown failure message.

A. Test Case 0321, Reset password before logging in without security question set, Severity level: Critical.
B. Launch the app, before logging in, click Reset my password, enter a valid email address used for registration when prompted by the system.
C. The result should be an error shows up and generates a new password and send it to user's email if user chooses to.

A. Test Case 0401, View user's profile, Severity level: Important.

B. Launch the app, click My Profile button.
C. The result should be the daily matches and required information provided.

A. Test Case 0411, Update user profile, Severity level: Important.
B. Find the button to update profile and click on it. The application should show the user profile with the informations to update it. After done, click on a button to save the informations.
C. The result should be the user profile informations altered with success.

A. Test Case 0501, Update user location automatically, Severity level: Critical.
B. Launch the app with user logged in.
C. The result should be the user location being reported to the server automatically.

A. Test Case 0502, Update user location with manual interaction, Severity level: Important.
B. Launch the app with user logged in, click on the button to update location in the app.
C. The result should be the user location being reported to the server.

A. Test Case 0601, See those who are close to the user, Severity level: Important.
B. Launch the app, in the main screen, the app should refresh the list of nearby users.
C. The result should be the app showing an updated list of other users near the user.

A. Test Case 0602, View the profile of others close to the user, Severity level: Important.
B. Click on the avatar of an user that appears on the nearby users.
C. The result should be the app showing the profile of the selected user.

A. Test Case 0603, Initiate chat with the user nearby, Severity level: Important.
B. After viewing a profile user, click on the button to send a message or initiate a chat with that person.
C. The result should be a screen opened to send messages to that user.

A. Test Case 0701, Match people with the same interest than me, Severity level: Critical.
B. Launch the app with user logged in.
C. The result should be the app opened showing a list with at least three users that matches with your interest.

A. Test Case 0801, Registration user email equivalence, Severity level: Important.

B. While attempting to register, use an email that satisfies the regex requirements (at least 1 alphanumeric or underscores) @ (at least 1 alphanumeric or underscores) . (2-4 alphabetics) (example: hello42@world_1.com)
C. The result should be an accepted email value.

A. Test Case 0802, Registration user email invalid equivalence, Severity level: Important.
B. While attempting to register, use an email that does not satisfy the regex requirements mentioned in Test Case 0801 (example: Hello!@.edu4)
C. The result should be that the registration is not allowed.

A. Test Case 0803, Resetting passwords without logging in equivalence, Severity level: Important.
B. While attempting to reset a password without logging in, use an email that satisfies the regex requirements mentioned in Test Case 0801 and has already been registered.
C. The result should be a displayed security question to answer for the registered user.

A. Test Case 0804, Resetting passwords without logging in invalid equivalence, Severity level: Important.
B. While attempting to reset a password without logging in, use an email that satisfies the regex requirements mentioned in Test Case 0801 but has not already been registered to the server.
C. The result should be a notification that the email is not a registered user.

A. Test Case 0805, Resetting passwords without logging in invalid equivalence, Severity level: Important.
B. While attempting to reset a password without logging in, use an email that does not satisfy the regex requirements, similar to Test Case 0802.
C. The result should either be a notification that the email is not a registered user or a notification that the email is not a valid email address.

A. Test Case 0806, Resetting passwords without a security question equivalence, Severity level: Important.
B. While attempting to reset a password for an account that does not have a security question, use an email that satisfies the regex requirements mentioned in Test Case 0801 and has already been registered.
C. The result should be a notification asking to create a new password for the user attached to the email address.

A. Test Case 0807, Resetting passwords without a security question invalid equivalence, Severity level: Important.
B. While attempting to reset a password for an account that does not have a security question, use an email that satisfies the regex requirements mentioned in Test Case 1001 but has not already been registered to the server.
C. The result should be a notification that the email is not a registered user.

A. Test Case 0808, Resetting passwords without a security question invalid equivalence, Severity level: Important.
B. While attempting to reset a password for an account that does not have a security question, use an email that does not satisfy the regex requirements, similar to Test Case 1002.
C. The result should either be a notification that the email is not a registered user or a notification that the email is not a valid email address.

A. Test Case 0809, Registering account password equivalence, Severity level: Important.
B. While attempting to register, use a password of 6-32 non-whitespace characters.
C. The result should be an acceptable password.

A. Test Case 0810, Registering account password invalid equivalence, Severity level: Important.
B. While attempting to register, use a password of 6-32 characters with at least one whitespace character.
C. The result should be an unacceptable password.

A. Test Case 0811, Registering account password invalid minimum boundary, Severity level: Important.
B. While attempting to register, use a password of 5 valid characters.
C. The result should be an unacceptable password.

A. Test Case 0812, Registering account password valid minimum boundary, Severity level: Important.
B. While attempting to register, use a password of 6 valid characters.
C. The result should be an acceptable password.

A. Test Case 0813, Registering account password valid maximum boundary, Severity level: Important.
B. While attempting to register, use a password of 32 valid characters.

C. The result should be an acceptable password.

A. Test Case 0814, Registering account password invalid maximum boundary, Severity level: Important.
B. While attempting to register, use a password of 33 valid characters.
C. The result should be an unacceptable password.

A. Test Case 0815, Resetting password by choice equivalence, Severity level: Important.
B. While attempting to reset a password for a logged in account, use a password of 6-32 non-whitespace characters.
C. The result should be an acceptable password.

A. Test Case 0816, Resetting password by choice invalid equivalence, Severity level: Important.
B. While attempting to reset a password for a logged in account, use a password of 6-32 characters with at least one whitespace character.
C. The result should be an unacceptable password.

A. Test Case 0817, Resetting password by choice invalid minimum boundary, Severity level: Important.
B. While attempting to reset a password for a logged in account, use a password of 5 valid characters.
C. The result should be an unacceptable password.

A. Test Case 0818, Resetting password by choice valid minimum boundary, Severity level: Important.
B. While attempting to reset a password for a logged in account, use a password of 6 valid characters.
C. The result should be an acceptable password.

A. Test Case 0819, Resetting password by choice valid maximum boundary, Severity level: Important.
B. While attempting to reset a password for a logged in account, use a password of 32 valid characters.
C. The result should be an acceptable password.

A. Test Case 0820, Resetting password by choice invalid maximum boundary, Severity level: Important.

B. While attempting to reset a password for a logged in account, use a password of 33 valid characters.
C. The result should be an unacceptable password.

A. Test Case 0821, Registration nickname equivalence, Severity level: Important.
B. While attempting to register, use a nickname that satisfies the regex requirements (4-20 characters that are either alphanumeric or underscores).
C. The result should be an acceptable nickname.

A. Test Case 0822, Registration nickname invalid equivalence, Severity level: Important.
B. While attempting to register, use a nickname that includes unsupported characters such as {, !,], etc.
C. The result should be an unacceptable nickname.

A. Test Case 0823, Registration nickname minimum invalid boundary, Severity level: Important.
B. While attempting to register, use a nickname that has 3 valid characters.
C. The result should be an unacceptable nickname.

A. Test Case 0824, Registration nickname minimum valid boundary, Severity level: Important.
B. While attempting to register, use a nickname that has 4 valid characters.
C. The result should be an acceptable nickname.

A. Test Case 0825, Registration nickname maximum valid boundary, Severity level: Important.
B. While attempting to register, use a nickname that has 20 valid characters.
C. The result should be an acceptable nickname.

A. Test Case 0826, Registration nickname maximum invalid boundary, Severity level: Important.
B. While attempting to register, use a nickname that has 21 valid characters.
C. The result should be an unacceptable nickname.

A. Test Case 0827, Registration age equivalence, Severity level: Important.
B. While attempting to register, use a numeric age between 13 and 100.
C. The result should be an acceptable age.

A. Test Case 0828, Registration age invalid equivalence, Severity level: Important.

B. While attempting to register, use an age that is not numeric (i.e. forty-two)
C. The result should be an unacceptable age.

A. Test Case 0829, Registration age minimum invalid boundary, Severity level: Important.
B. While attempting to register, use an age of 12.
C. The result should be an unacceptable age.

A. Test Case 0830, Registration age minimum valid boundary, Severity level: Important.
B. While attempting to register, use an age of 13.
C. The result should be an acceptable age.

A. Test Case 0831, Registration age maximum valid boundary, Severity level: Important.
B. While attempting to register, use an age of 100.
C. The result should be an acceptable age.

A. Test Case 0832, Registration age maximum invalid boundary, Severity level: Important.
B. While attempting to register, use an age of 101.
C. The result should be an unacceptable age.

A. Test Case 0901, No internet connection, Severity level: Important.
B. Remove internet connection from device and attempt an operation that requires internet connection (example: attempt login or use the app's matching service)
C. The result should be a notification of no connection without app crashing.

A. Test Case 0902, No GPS or wi-fi location available, Severity level: Important.
B. Remove the GPS and wi-fi location and open the app. It will requires the GPS or wi-fi location.
C. The result should be a notification of no actual location available without app crashing.

Performance Tests

A. Test Case 1001, Battery consumption. Severity level: Important.
B. Execute the app, and keep it on memory for a long time. See how much battery the app consume, in percentages.
C. The app should not change the battery consumption drastically over time.

A. Test Case 1002, Server Request Stress test. Severity level: Important.
B. Having a huge base of users. Do a lot of requests to the server.
C. The server should not crash or shutdown during this period.

A. Test Case 1003, internet data consumption. Severity level: Important.
B. Execute the application sometimes and see how many data the app consume during this time.
C. The app should not consume a huge amount of data. This should decrease the battery autonomy and the experience with other apps that use data.

A. Test Case 1004, Android version test. Severity level: Important.
B. Install the application in a phone or emulator with android 4.0.3.
C. The result should be the app running as expected.

A. Test Case 1005, Android version test fail. Severity level: Workaround.
B. Install the application in a phone or emulator with android 4.0.0 or 4.0.2.
C. The result should be the app not installed or when it runs, the app will crash.

A. Test Case 1006, Server availability test. Severity level: Important.
B. Open the app and attempt an operation that requires server connection and see if the server is ok. Do the same test on different time and hours to see the server is available.
C. The result should be the same on every execution, with the server working well.

A. Test Case 1007, Location reporting accuracy, Severity level: Critical.
B. Open the app and login with multiple devices. On each device, check the location of the other device. Move one device to a new nearby location.
C. Locations should be accurately reported on both devices. After movement there should be a location update on the stationary device.