

## Form 4: Functional Test cases

1. Team No.: 6
2. Project Title: Chatting interface using Android studio
3. Test Cases:

Sl.No	Use Case	Function Being Tested	Initial System State	Input	Expected Output	Test Result
1	Login page	Authentication	The login page is loaded and displayed on the screen.	The user provides valid authentication credentials (e.g., username and password).	Granting access to the authorized features and functionalities of the application.	Success
2	Login page	Authentication	The login page is loaded and displayed on the screen.	Username: [Provide an invalid username] Password: [Provide an invalid password]	Not Granting access to the authorized features and functionalities of the application	Success
3	Sign up	User Registration	The sign-up page is loaded and displayed on the screen.	Username: [Provide a unique username] Email: [Provide a valid and unique email address] Password: [Provide a secure password]	On submitting the valid user account information, the System has to successfully create a new user account and Grant access to the authorized features and functionalities of the application.	Success
4	Sign up	User Registration	The sign-up page is loaded and displayed on the screen.	Username: [Provide a unique username] Email: [Provide an invalid and existing email address] Password: [Provide a weak password]	provides appropriate error messages or feedback for the invalid input (e.g., "Invalid email address," "Password too weak," "Username already taken")	Success
5	One-to-One Chatting	Sending and Receiving Messages and links	User A and User B have an existing one-to-one chat conversation	User A types a message: Ex ("Hello, how are you?") User A sends the message to User B.	User A's message, "Hello, how are you?" is sent to User B. User B's chat interface displays the incoming message from User A. User B can read the message "Hello, how are you?" from User A.	Success

					User B has the option to respond to User A's message if desired.	
6	Send URL Safely	Message URL Validation	Users have an active chat conversation. The chat interface is open.	The user sends a message with a URL.	Message and URL are separated. URL is processed by a website-safe browser API. The google safe browser verifies the link safety.	Success
7	Link Validation	URL Safety	User A and User B have an existing one-to-one chat conversation.	User A types a message containing a URL. User A sends the message to User B.	If the URL is safe, it URL is sent to User B.	Success
8	Link Validation	URL Safety	User A and User B have an existing one-to-one chat conversation.	User A types a message containing a URL. User A sends the message to User B.	If the URL is not safe, a pop-up message notifies User A that the message cannot be sent.	Success
9	Sign Out	If the URL is not safe, a pop-up message notifies User A that the message cannot be sent.	User is logged in.	User is logged in.	User is logged out and returned to the login or home screen.	Success

Team Members Signature:

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Signature Supervisor