## **Functional Test Cases**

N₂	Test Case	Steps	<b>Expected Result</b>
1	Register with valid phone	Enter phone $\rightarrow$ receive &	User successfully
	number	enter OTP	registers
2	Register with invalid	Enter invalid phone →	Error message is
	phone number	submit	displayed
3	Register with existing	Enter used phone number	Error message is
	phone number	→ submit	displayed
4	Register with valid email	Enter email → receive &	User successfully
		enter OTP	registers
5	Register with invalid	Enter invalid email →	Error message is
	email	submit	displayed
6	Register without entering	Submit without entering	Error message is
	OTP	OTP	displayed
7	Register with expired	Wait → enter OTP	Error message is
	OTP		displayed
8	Register with incorrect	Enter wrong OTP $\rightarrow$	Error message is
	OTP	submit	displayed
9	Login with correct	Enter credentials →	User is logged in
	credentials	Login	
10	Login with incorrect	Enter wrong password →	Error message is
	password	Login	displayed
11	Login with unregistered	Enter unregistered email	Error message is
	email	→ Login	displayed
12	Login with unregistered	Enter unregistered phone	Error message is
	phone number	→ Login	displayed
13	Login with empty fields	Leave login fields empty	Error message is
		→ submit	displayed
14	Forgot password	Click "Forgot password"	Reset link is sent
	functionality	→ enter email	
15	Logout functionality	Click logout	User is logged out
16	Send a text message	Open chat $\rightarrow$ Type $\rightarrow$	Message is delivered
		Send	
17	Send message with emojis	Type emoji → Send	Emoji is displayed
			correctly
18	Send special characters in	Type $!@#$\% \rightarrow Send$	Special chars
	message		displayed properly
19	Send message with >1000	Paste long text $\rightarrow$ Send	Error or wraps
	characters		correctly
20	Send empty message	Send with empty input	Error message shown
21	Edit a sent message	Long press $\rightarrow$ Edit $\rightarrow$	Edited message is
		Save	shown
22	Delete a sent message	Long press → Delete	Message disappears
23	Send an image	Attach image → Send	Image is displayed
24	Send a video	Attach/record → Send	Video is playable

27 S 28 H	Send a sticker Send a voice message	Choose sticker → Send	successfully
27 S 28 H			Sticker is displayed
28 I		Hold record → Send	Voice note is sent
h + + + + + + + + + + + + + + + + + + +	Forward a message	Long press → Forward	Message is forwarded
	Reply to a message	Swipe/Reply → Send	Reply links to original
	Mention user in group	Type @name → Send	Mentioned user is
	chat	Type & hame / Bena	notified
	Send multiple messages	Spam 5+ messages →	Messages delivered in
	quickly	Check	order
<b></b>	Check read status	Send → Receiver reads	Status updates to
	eneem read status	110011011000	"Read"
33 (	Check delivery status	Send message	Status updates to
	,	3	"Delivered"
34	Typing indicator appears	Type in chat	Typing status is
			shown
35 \$	Switch between dark/light	Settings → Toggle theme	Theme changes
r	mode		instantly
36 5	Search messages	Open search → Enter	Relevant messages
		keyword	shown
37 I	Pin a message	Long press $\rightarrow$ Pin	Message pinned at top
38 1	Mute a conversation	Mute from chat options	Notifications stop
39 I	Block a contact	Open profile → Block	Contact can't message
40 J	Unblock a contact	Go to blocked list $\rightarrow$	Contact can send
		Unblock	messages again
41 (	Check last seen status	Open user profile	Last seen is visible
42 0	Change chat background	Chat settings $\rightarrow$ Change	Background is
		background	updated
	Delete a conversation	Chat options $\rightarrow$ Delete	Chat history cleared
44	Archive a conversation	Long press chat → Archive	Chat moves to archive
45 U	Unarchive a conversation	Archive → Long press → Unarchive	Chat returns to list
46 (	Create group chat	New chat → Select users	Group is created
	Add member to group	Group settings → Add	Member added
	Remove member from	Group settings → Add Group settings →	Member removed
	group	Remove	Transcor Tomo vou
	Assign admin in group	Group settings → Make	Admin rights granted
	i issign dammi m group	Admin	
50 I	Remove an admin	Group settings $\rightarrow$ Revoke	Admin rights removed
		Admin	
51 5	Send message in group	Type message → Send	Delivered to all
<b>-</b>	Send file in group	Attach → Send	File delivered to all
	Mute group notifications	Group settings → Mute	No notifications
			received

54	Unmute group	Group settings →	Notifications restored
	notifications	Unmute	
55	Leave a group	Group options → Leave	User leaves group
56	Delete a group	Group admin → Delete	Group deleted
			permanently
57	Mention a user in group	@user → Send	User notified
58	Send a poll in group	Create poll → Share	Members can vote
59	React to group message	Long press → React	Reaction displayed
60	Search group chat	Group → Search icon	Messages found
61	Make a voice call	Tap voice call	Call connects
62	Receive a voice call	Accept incoming call	Call connects
63	Decline a voice call	Tap decline	Call is rejected
64	Mute/unmute during call	Tap mute/unmute	Mic toggles
65	Switch to speaker during call	Tap speaker icon	Audio output changes
66	End a call	Tap end	Call ends
67	Make a video call	Tap video call	Video session starts
68	Enable/disable camera	Tap camera icon	Camera toggles
	during call		
69	Switch camera	Tap switch camera	Camera toggles
	(front/rear)		
70	Add participant to call	Tap "Add" → Choose	Contact joins call
		contact	
71	Leave group call	Tap Leave	User exits call
72	Check call history	Open call logs	History shown
73	Block call from user	Block contact	Calls no longer
			received
74	Record voice call (if	Tap record during call	Audio saved
	supported)		
75	Test call on slow network	Simulate slow network → Call	Call adjusts or handles lag
76	Receive message	Send message → check	Notification appears
	notification	other device	
77	Open chat from	Tap message notification	Chat opens directly
	notification		
78	Enable/disable push	Go to Settings →	Toggle works
	notifications	Notifications	
79	Change profile picture	$Profile \rightarrow Edit \rightarrow Upload$	Picture is updated

## **Non-Functional Test Cases**

№	Test Case	Steps	<b>Expected Result</b>
80	Change status	Profile → Update status	Status is saved
	message		

81	Change phone number	Settings $\rightarrow$ Phone $\rightarrow$ Enter new	Number is updated
82	Change password	$\begin{array}{c} \text{Settings} \rightarrow \text{Password} \rightarrow \\ \text{Save} \end{array}$	Password changes
83	Enable 2FA	Settings → Security → Enable	2FA is active
84	Logout & login again	Logout → Re-login	Session resumes
85	Delete account	Settings → Delete Account	Account removed permanently
86	Attempt login after deletion	Try login after deleting account	Login fails
87	Blocked user cannot join group	Block user → Try to add in group	Addition blocked
88	Disable auto media download	Settings → Media → Auto-download off	Files not auto-downloaded
89	Battery usage on long call	Place 30-min call	No overheating, acceptable drain
90	Offline message sync	Send message offline → Go online	Message sent on reconnect
91	Multi-device login handling	Login from 2 devices	Session syncs or restricts appropriately

## **UI Test Cases**

No	Test Case	Steps	<b>Expected Result</b>
92	Notification badge count	Send multiple	Badge count increases
	updates	messages	
93	Language switch	Settings → Change	UI updates to selected
		language	language
94	Rounded message bubbles	Open chat → Send	Message bubbles are
		message	styled properly
95	Avatar shows correctly in	Send/receive	User avatars are shown
	chat list	message	
96	Chat screen aligns properly	Open chat	Text, icons aligned
97	Input field expands	Type long message	Field expands or scrolls
	correctly with text		smoothly
98	Icons are consistent in	Switch theme	Icons adapt to light/dark
	theme		
99	Typing area doesn't overlap	Tap input on small	Input area stays visible
	with keyboard	screen	
100	Message timestamps are	Send/receive	Timestamps are
	readable	messages	properly styled