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Title:-Write test cases for Social Media Application(WhatsApp)						
Project name:-	WhatsApp Application					
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1.TEST Scenario:- User Registration						
Test Case ID	Description	Precondition	Test Step	Expected Result	Actual Result	Status
TC_WhatsApp_001	Ensure that a user can successfully register with valid credentials.	User has a valid phone number and internet connection.	1.Install the WhatsApp Application 2.Open the app and tap "Agree and continue". 3.Enter a valid phone number 4. Verify the phone number with a code sent via SMS. 5.Set up a profile name and photo.	User is successfully registered and redirected to the chat interface.	As expected	Pass
TC_WhatsApp_002	Verify that registration fails with an invalid phone number format.	User has the application installed.	1.Open the WhatsApp application. 2.Select "Register." 3.Enter an invalid phone number (e.g., letters or incorrect format). 4.Tap "Next."	The application displays an error message indicating the phone number format is invalid.	As expected	Pass
TC_WhatsApp_003	Check the behavior when the phone number cannot receive SMS.	User has the application installed.	1.Open the WhatsApp application. 2.Select "Register." 3.Enter a phone number that is valid but not reachable. 4.Tap "Next."	After a timeout period, the application shows an error message stating that the verification code was not received and provides options to resend or call.	As expected	Pass
TC_WhatsApp_004	Verify that the application prevents registration of an already registered phone number..	The phone number used for testing is already registered with an existing WhatsApp account.	1.Open the WhatsApp application. 2.Select "Register." 3.Enter the already registered phone number. 4.Tap "Next."	The application displays a message indicating that the number is already in use and prompts the user to log in instead.	As expected	Pass

TC_WhatsApp_005	Ensure that the application cannot complete registration without internet access.	User has the application installed and internet is turned off.	1.Open the WhatsApp application. 2.Select "Register." 3.Enter a valid phone number. 4.Tap "Next."	The application shows an error message indicating there is no internet connection and prompts the user to connect.	As expected	Pass
2.Test Scenario: -Sending and Receiving Messages						
Test Case ID	Description	Precondition	Test Step	Expected Result	Actual Result	Status
TC_WhatsApp_001	Validate the functionality of sending and receiving messages between users.	Two users (User A and User B) have active WhatsApp accounts and are connected to the internet.	1.User A sends a text message to User B. 2.User B checks for the received message.	User B receives the message in real-time, with appropriate timestamps and read receipts (if enabled).	As Expected	pass
TC_WhatsApp_002	Verify that a user can send a text message to another user successfully.	Both users (User A and User B) have active WhatsApp accounts and are connected to the internet.	1.User A opens a chat with User B. 2.User A types a text message. 3.User A taps the send button.	User B receives the text message in real-time, and the message status shows as "delivered" and "read" (if read receipts are enabled).	As Expected	pass
TC_WhatsApp_003	Ensure that a user receives a text message sent by another user.	User A sends a text message to User B.	1.User B opens the WhatsApp application. 2.User B checks the chat with User A.	User B sees the received text message in the chat, along with the correct timestamp and delivery status.	As Expected	pass
TC_WhatsApp_004	Validate the ability to send and receive messages in a group chat.	A group chat is created with multiple participants (User A, User B, and User C).	1.User A sends a message to the group. 2.User B checks the group chat and replies to the message.	All participants (User A, User B, and User C) receive the message and any replies, with appropriate timestamps and delivery statuses.	As Expected	pass

TC_WhatsApp_005	Verify that message delivery and read statuses are displayed correctly.	User A and User B are chatting.	1.User A sends a text message to User B. 2.User A observes the message status indicators (sent, delivered, read).	The message status should update as follows: 1.Sent: Single check mark (✓) 2.Delivered: Double check marks (✓✓) 3.Read: Double check marks turn blue (if read receipts are enabled) once User B reads the message.	As Expected	pass
3.Test Scenario:- Group Chat Creation and Management						
Test Case ID	Description	Precondition	Test Step	Expected Result	Actual Result	Status
TC_WhatsApp_001	Verify that a user can successfully create a new group chat.	User is logged into their WhatsApp account and has contacts available.	1.User taps on the "New Chat" button. 2.User selects "New Group." 3.User adds at least two contacts to the group. 4.User sets a group name and, optionally, a group photo. 5.User taps "Create."	The new group chat is created, and the user is taken to the group chat interface. All added members receive a notification about the new group.	As expected	Pass
TC_WhatsApp_002	Ensure that a user can add participants to an existing group chat.	User is a group admin and is in an existing group chat.	1.User opens the group chat. 2.User taps on the group name to access group info. 3.User selects "Add Participants." 4.User chooses additional contacts to add. 5.User confirms the addition.	The selected contacts are added to the group, and they receive a notification about the addition.	As expected	Pass
TC_WhatsApp_003	Verify that a group admin can remove a participant from the group chat.	User is a group admin and is in an existing group chat with multiple participants.	1.User opens the group chat. 2.User taps on the group name to access group info. 3.User selects a participant to remove. 4.User confirms the removal.	The selected participant is removed from the group, and a notification is sent to all remaining participants about the removal.	As expected	Pass

TC_WhatsApp_004	Test the ability to change the group name, photo, and description.	User is a group admin and is in an existing group chat.	1.User opens the group chat. 2.User taps on the group name to access group info. 3.User changes the group name and uploads a new group photo. 4.User updates the group description. 5.User saves the changes.	The group name, photo, and description are updated successfully, and all participants see the changes reflected in the group chat.	As expected	Pass
TC_WhatsApp_005	Ensure that group chat notifications are functioning correctly for all participants.	A group chat exists with multiple participants.	1.User A sends a message in the group chat. 2.User B, C, and D check their notification settings for the group. 3.User A observes the notification status after sending the message.	participants receive notifications based on their notification settings. If a participant has notifications enabled, they receive a notification for the new message. If a participant has muted the group, they do not receive notifications for new messages.	As expected	Pass
4.Test Scenario :- Voice and Video Calls						
Test Case ID	Description	Precondition	Test Step	Expected Result	Actual Result	Status
TC_WhatsApp_001	Verify that a user can successfully initiate a voice call to another user.	Both users (User A and User B) have active WhatsApp accounts and are connected to the internet.	1.User A opens a chat with User B. 2.User A taps the voice call icon.	User B receives a call notification, and the call connects successfully if answered. Both users can hear each other clearly.	As expected	Pass
TC_WhatsApp_002	Ensure that a user can receive a voice call from another user.	User A is calling User B, who is connected to the internet.	1.User A initiates a voice call to User B. 2.User B receives the call and taps to answer.	The call connects successfully, and User B can hear User A clearly. The call duration is logged correctly.	As expected	Pass

TC_WhatsApp_003	Validate that a user can successfully initiate a video call to another user.	Both users (User A and User B) have active WhatsApp accounts and are connected to the internet.	1.User A opens a chat with User B. 2.User A taps the video call icon.	User B receives a video call notification, and the call connects successfully if answered. Both users can see and hear each other clearly.	As expected	Pass
TC_WhatsApp_004	Test the audio and video quality during a voice and video call under various network conditions.	Both users (User A and User B) have active accounts and are connected to the internet.	1.User A initiates a voice call to User B. 2.Monitor call quality (clarity, lag, and stability) during the call. 3.Repeat the test for a video call. 4.Simulate different network conditions (e.g., switching from Wi-Fi to mobile data).	The call remains stable, with minimal lag and clear audio and video quality, even when switching network conditions.	As expected	Pass
TC_WhatsApp_005	Ensure that a user can end a voice or video call successfully.	A voice or video call is in progress between User A and User B.	1.User A decides to end the call. 2.User A taps the "End Call" button.	The call ends successfully for both users, and the call duration is logged in the call history. Both users see a confirmation that the call has ended.	As expected	Pass
5.Test Scenario:- Account Security Features						
Test Case ID	Description	Precondition	Test Step	Expected Result	Actual Result	Status
TC_WhatsApp_001	Verify that a user can enable two-step verification successfully.	User is logged into their WhatsApp account.	1.User navigates to "Settings." 2.User selects "Account." 3.User taps on "Two-step verification." 4.User selects "Enable." 5.User sets a six-digit PIN and provides an email address for recovery.	Two-step verification is enabled, and a confirmation message is displayed. The user can now see an option to change or disable two-step verification.	SMS received to registered mobile number	Pass

TC_WhatsApp_002	Ensure that a user must enter their two-step verification PIN when logging in from a new device.	Two-step verification is enabled on the user's account.	1.User logs out of WhatsApp. 2.User attempts to log in again using the same phone number on a different device. 3.User receives a verification code via SMS and enters it. 4.User is prompted to enter the two-step verification PIN.	User must enter the correct two-step verification PIN to complete the login process. If the PIN is incorrect, an error message is displayed.	Error message displayed	Fail
TC_WhatsApp_003	Validate that the user can recover their account if they forget their two-step verification PIN.	Two-step verification is enabled, and the user has set a recovery email.	1.User attempts to log in and enters the incorrect two-step verification PIN. 2.User selects the option for "Forgot PIN?" 3.User receives an email with a reset link. 4.User clicks the link and resets the PIN.	The user can successfully reset their PIN using the recovery email, and they can log in to their account afterward.	As expected	Pass
TC_WhatsApp_004	Ensure that a user can adjust their privacy settings successfully.	User is logged into their WhatsApp account.	1.User navigates to "Settings." 2.User selects "Account." 3.User taps on "Privacy." 4.User changes visibility settings for "Last Seen," "Profile Photo," and "About" to "My Contacts." 5.User saves the changes.	The privacy settings are updated successfully, and the user receives a confirmation that the changes are saved. The new settings are reflected in the user's profile.	setting updated message displayed	Pass
TC_WhatsApp_005	Verify that logging out of WhatsApp removes the user's account from the device and that they need to verify their identity upon re-login.	User is logged into their WhatsApp account.	1.User logs out of WhatsApp. 2.User attempts to log in again using the same phone number. 3.User receives a verification code via SMS and enters it. 4.If two-step verification is enabled, the user is prompted to enter their PIN.	The user must complete the verification process (SMS and, if applicable, two-step verification) to log back into their account successfully. The logout should clear the account data from the device.	message displayed	Pass