**Black Box Testing for message sending function in Telegram app.**

1.Functional testing:

| Preconditions:  Open <https://web.telegram.org/k/> app  Log in  Steps:  1.Open a chat with any contact.  2.Write any message in the “Write a message” field  3. Press “Enter” or click the “Send” button. |
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| Expected result: the message is sent successfully and appears in the chat. |

2. Regression testing:

For Example: Let's consider the case If there have been changes to allow users to edit messages, perform a regression test on message editing.

| Preconditions:  Open <https://web.telegram.org/k/> app  Log in  Steps:  1.Send a message.  2.Edit the sent message.  3.Confirm that the edited message is updated and displayed correctly. |
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| Expected Result: Message editing works without errors. |

**White Box Testing for message sending function in Telegram app.**

1..Security testing

| Preconditions:  Open <https://web.telegram.org/k/> app  Log in  Steps:  1.Send a message  2.Analyze the existing encryption mechanism. |
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| Expected Result: Make sure message content is fully encrypted and secure. |

**Grey Box Testing for message sending function in Telegram app.**

1.Database Integration Testing:

| Preconditions:  Open <https://web.telegram.org/k/> app  Log in  Steps:  1.Send a message  2.Check the database for a new message entry. |
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| Expected Result: the new message should be successfully sent AND saved to the database. |

2. Load testing: Test how the messaging function works in different conditions: slow and fast network.

| Preconditions:  Open <https://web.telegram.org/k/> app  Log in  Steps:  1.Send a message on a fast network  2.Send a message on a slow network |
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| Expected result: The system successfully processed messages, keeping and sending them when the network stabilized. |