# Scenario 3:

Scenario Description:  
  
Instant Messaging is a critical capability to meet the core business case of the Instant Messaging Service. The testing will allow the project to verify that instant messaging functionality can be achieved with the underlying API and Server technologies. The testing will allow the project to establish that a chat session can be established with the XMPP server using the chosen API from Test 1.

## Test Functions

The following tests will cover the following scenarios:

**Test 3.1**

* Send Message to contact
* Receive Message from contact

**Test 3.2**

* Notify user of new chat message

**Test 3.3**

* Notify user of chat channel status (read/unread)

## Use Case

The testing fulfills the Fallback Target Use Case (Single User Chat).

## Test Components/Requirements

* Connection to running XMPP Server.
* Create user(s) on XMPP Server.
* Code for GUI or command line interface which can establish a chat session with a known user

## Test Function 3.1: Test Chat

### Function Description

The function will establish a chat session on the XMPP server.

### Testing Requirements

This test function covers the following specific testing requirements:

* Establish connection to XMPP Server
* Login as User
* Chat to known user (or chatbot)

### Setup

* Connecting Server Host address teamorange.space.
* User credentials Name: chat-test, Password: chat-test.
* Simple console to record chat interaction

### Teardown

* Console output of successful steps.

### Function Steps

|  |  |  |  |
| --- | --- | --- | --- |
| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| 1 | Create XMPP Connection Object with host details*.* | No exceptions. |  |
| 2 | Establish connection to XMPP Server with Connection Object. | Return TRUE Boolean, XMPP Connection established. |  |
| 3 | Log in as chat-test/chat-test | No exceptions. |  |
| 4 | Type in handle of other known user or chatbot to establish chat | XMPP Server accepts new chat session between the two users |  |
| 5 | Type chat text to other party. Receive response from other party | Chatbot echoes text back to user/other user replies |  |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
|  |  |  |  |  |

## Test Function 3.2: Notification

### Function Description

The function will notify the chat user that the other party has responded to a chat message.

### Testing Requirements

This test function covers the following specific testing requirements:

* Establish a chat session with a known user or chatbot
* When the known user or chatbot replies, provide a visual and/or audible cue that this event has occurred

### Setup

* Connecting Server Host address teamorange.space.
* User credentials Name: chat-test, Password: chat-test

### Teardown

* Console output of successful steps.

### Function Steps

|  |  |  |  |
| --- | --- | --- | --- |
| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| 1 | Chat is established (refer Test 1.1) | No exceptions. |  |
| 2 | Known user or chatbot replies to the chat message | chat response appears in the console |  |
| 3 | Chat-user is notified of incoming chat message | Toast/icon/audible sound signals arrival of incoming chat message |  |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
|  |  |  |  |  |

## Test Function 3.3: Channel Status

### Function Description

The function will provide visual feedback to the chat user on the status of different channels, i.e. whether any new chat activity has occurred on a chat channel.

### Testing Requirements

This test function covers the following specific testing requirements:

* Establish connection to XMPP Server
* Establish at least two chat channels with a known user
* Chat on the two separate channels.

### Setup

* Connecting Server Host address teamorange.space.
* User credentials Name: chat-user, Password: chat-user.

### Teardown

* Console output of successful steps.

### Function Steps

|  |  |  |  |
| --- | --- | --- | --- |
| **Step #** | **Test Action** | **Expected Results** | **Pass/ Fail** |
| 1 | Establish two separate chat channels/threads during the same session. | No exceptions. |  |
| 2 | Chat on both threads with known user | No exceptions. |  |
| 3 | Known user replies to chat user on one of the threads | Chat-user is visually alerted to which chat thread the known user has replied on |  |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
|  |  |  |  |  |