

UE21CS341A: Software Engineering

Testing Document

for

Chat Application

Prepared by

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Template of a Test Case:

Test Case ID	Name of Module	Test Case Description	Pre conditions	Test Steps	Test Data	Expected Results	Actual Result	Test Result

- **Test Case ID:** Each test case should be represented by a unique ID. To indicate test types, follow some convention like "UT_01" indicating "Unit Testing - Test Case#1." ·
- **Name of the Module:** Specify the name of the **main module or sub module** being tested
- **Test Case Description:** Specify the summary or test purpose in brief
- **Pre- Conditions:** Any requirement that needs to be done before execution of this test case.
- **Test Steps:** Mention all the steps in detail and specify the order in which it is to be executed.
- **Test Data:** Input for the test case to be executed. Specify different data sets with precise values to be used as input. (create test case for both valid and invalid inputs) ·
- **Expected Results:** Mention the expected results including error or precise messages that should be displayed on screen
- **Actual Results:** After execution of test case fill this column with the result obtained ·
- **Test Result (Pass/Fail):** Mark this field as “fail” if the actual result is not same as expected result else mark as “pass”.

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Testing of various functional requirements:

1. New user registration

Test Case ID	Name of Module	Test Case Description	Pre conditions	Test Steps	Test Data	Expected Results	Actual Result	Test Result
UT-01	User Registration	Successful registration of a new user	User is on the registration page	1.User enters valid username and password 2.User clicks on the register button	Valid username and password (Unique username and password that meets certain criteria) Username: John Doe Password: JohnDoe@123	The user is registered successfully, and they are redirected to the landing page where they can login.	The user is registered successfully, and they are redirected to the landing page where they can login.	Pass
UT-02	User Registration	User registration with existing username	User is on the registration page	1.User enters an already existing username with a valid password 2.User clicks on the register button	Existing username is used for registration Username: John Doe Password: JohnDoe@123	User registration should fail due to the existing username and an error message is displayed.	User registration fails due to the existing username and an error message is displayed.	Pass
UT-03	User Registration	User registration with weak password	User is on the registration page	1.User enters a valid username with a weak password 2.User clicks on the register button	Checks the strength of the password with the following: 1.Min length of 8 2.Atleast one upper and lowercase character 3.Atleast one special character and digit	User registration should fail due to a weak password, and an error message should be displayed.	User registration fails due to a weak password and an error message is displayed	Pass

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2. User login

Test Case ID	Name of Module	Test Case Description	Pre conditions	Test Steps	Test Data	Expected Results	Actual Result	Test Result
UT-01	User Login	Successful login of a user	User is registered	User navigates to login page. 1.User enters a registered username and password 2.User clicks on the login button	Valid username and password that is already registered Username: John Doe Password: JohnDoe@123	The user is successfully logged in	The user is successfully logged in	Pass
UT-02	User Login	Verify that a User cannot log in with an empty username	User is registered	1. Navigate to the login page. 2. Leave the Username field blank. 3. Enter a Valid password in the password field. 4. Click the Login button.	Empty username. Username: Password:123	Error message saying that the entered username cannot be empty	Error message saying that the username or password field cannot be empty	Pass
UT-03	User Login	Verify that a User cannot log in with an empty password	User is registered	1. Navigate to the login page. 2. Enter a valid username. 3. Leave the password field empty 4. Click the Login button.	Empty username. Username: bob Password:	Error message saying that the entered password cannot be empty	Error message saying that the username or password field cannot be empty	Pass

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UT-04	User Login	Verify that a User cannot log in with an empty username and password	User is registered	1. Navigate to the login page. 2. Click the Login button.	Empty username. Username: Password:	Error message saying that the username and password field cannot be empty	Error message saying that the username or password field cannot be empty	Pass
UT-05	User login	Verify that a User cannot log in with a valid username and password that do not match.	User is registered	1. Navigate to the login page. 2. Enter a valid username in the username field. 3. Enter an incorrect password in the password field. 4. Click the Login button.	Valid username and incorrect password. Username;John Doe Password:123	An error message is displayed indicating that the username and password do not match	An error message is displayed indicating that the username and password do not match	Pass

3. Search users

Test Case ID	Name of Module	Test Case Description	Pre conditions	Test Steps	Test Data	Expected Results	Actual Result	Test Result
UT-01	Search Users	Search for a valid registered user	User is registered and has logged in	1.Type the valid username to search on the add contact placeholder in the home page 2. Click on add button	Searches for the user with entered username and checks whether it already exists. Add: John Doe	The user is successfully added to contacts	The user is successfully added to contacts	Pass

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UT-02	Search Users	Search for user that is not registered	User is registered and has logged in	1.Type the invalid username to search on the add contact placeholder in the home page 2. Click on add button	Searches for the user with entered username and checks whether it exists. Add: Harry	The user is not added to contacts	The user is not added to contacts	Pass
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4. Send/Receive messages

Test Case ID	Name of Module	Test Case Description	Pre conditions	Test Steps	Test Data	Expected Results	Actual Result	Test Result
UT-01	Send message	Send message to an added user	User is logged in and has added another user	1.Select the user to message 2.Type the message to send to the user and press enter	Send the message to the user specified	The message is successfully sent to the user	The message is successfully sent to the user	Pass
UT-02	Receive message	Receive message	User is logged and has been sent a message from an added user	1.Select the added user who has sent the message	Check if the message sent has been received	The message has be received successfully by the user	The message has be received successfully by the user	Pass

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5. Chat backup

Test Case ID	Name of Module	Test Case Description	Pre conditions	Test Steps	Test Data	Expected Results	Actual Result	Test Result
UT-01	Chat backup	Verify if the messages are being backed up	User is logged in and has sent and received messages from another user	1.Close the chat application 2.Reopen the chat application and verify if the chat history is still visible	View the chat history after logging out to see if it is backed successfully	The chat history should be visible when the user logs in again.	The chat history is still when the user logs in again.	Pass