**CSE325**

**Software engineering**

**Reliable chat service using three password authentication System**

**Test cases Document**

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Test case specification table:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test id: | Test objective: | Preconditions: | Steps: | Test data: | Expected result: | Postconditions: |
|  | Successful creation of the user account | The software should be connected to the database | 1. In the login page, enter the username, password, sex and the date of birth. 2. Click the sign up button | 1. A valid user name is to be entered   “Gurleen”   1. The password length should be max 25 “abcd\_123!!!” 2. All fields are compulsory. | The message as “you have registered successfully” should be displayed. | The user is now asked to go to the login page again from where he/she can login again. |
| 2. | Successful user login to access the chat service | 1. A valid User account to login to be available 2. Chat software is launched on a compatible browser | 1. In the login page, enter the userid, password, and the captcha. 2. Click the sign in button. | 1. A valid user id is to be entered (randomly generated by the software) 2. The password length should be max 25 “abcd\_123!!!” 3. The captcha should be entered correctly 4. All fields are compulsory | The user is logged successfully and is redirected to the home page. | The user name is displayed on the homepage. |
|  | Error message on unsuccessful user login to SG chat service. | 1. A valid User account to login to be available 2. Chat software is launched on a compatible browser | 1. In the login page, enter the userid, password, and the captcha. 2. Click the sign in button | 1. An invalid user id or password or both have been entered.   Userid:12345(not stored in the database for that user)  Password:”abcd\_1234!!”( not matching with gurleen’s password. | An Error message is displayed and the user is not logged in to the chat software. The message is displayed as "Invalid userid/password". |  |
| 4. | Personal details- modification with valid values- "password "only. | The chat service is launched successfully on the web browser. | 1. Enter the current password. 2. Enter the new password 3. Click OK. | A valid user password is to be entered.  Old password:abcd\_123!!  New password: fossil | The message as “your password has been successfully changed” is displayed. | The user now logs in with the new password. |
| 5. | Searching for people. | 1. The user is logged in successfully. | 1. The user searches for the exact username. 2. The list of the people is then displayed. | A valid username has to be entered.  Username: Harman | The list of searched name is displayed if it already exists else the message is displayed “not found”. | The user can now send a request to that particular user. |
| 6. | Accepting a friend request from a user | 1. User should be successfully logged in 2. He/she should have a pending request | 1. User clicks on Notification link 2. User clicks on “accept” button to accept the request |  | When user accepts the request the message as follows is displayed “Friend request accepted” | 1. The two users are added to the friend list of each other. 2. Friend request is deleted from the pending requests list. |
| 7. | Declining a friend request from a user | 1. User should be successfully logged in 2. He/she should have a pending request | 1. User clicks on Notification link 2. User clicks on “decline” button to decline the request |  | When user declines the request the message as follows is displayed “Friend request deleted” | Friend request is deleted from the pending requests list. |
| 8. | Check the upload of a file with size less than 1 MB | 1. User should be successfully logged in 2. The user should be in an active chat with the other user 3. The size of the file should be less than 1MB. | 1. The user opens the chat box. 2. The user should use the attach button to attach the file. 3. Click the send button. | The name, format and path of the file  File: gurleen.txt | The file is successfully sent to the user. | The chat history is updated with the name of the file that has been sent. |
| 9. | Check the upload of a file with size more than 1 MB | 1. User should be successfully logged in 2. The user should be in an active chat with the other user | 1. The user opens the chat box. 2. The user should use the attach button to attach the file. 3. Click the send button | The name , format and the path of the file  File: abc.mp3 | The file is not successfully uploaded as the  size limit exceeds | The chat history is not updated and the file is deleted. |

Traceability matrix:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test case id:**  **Requirements:** | Test case 1 | Test case 2 | Test case 3 | Test case 4 | Test case 5 | Test case 6 | Test case 7 | Test case 8 | Test case 9 |
| Registration of new users: | ● |  |  |  |  |  |  |  |  |
| Signing in of returning users |  | ● | ● |  |  |  |  |  |  |
| Modification of the details |  |  |  | ● |  |  |  |  |  |
| Searching of people |  |  |  |  | ● |  |  |  |  |
| Accepting or declining the friend requests |  |  |  |  |  | ● | ● |  |  |
| Uploading of data through chat |  |  |  |  |  |  |  | ● | ● |