**Test case id:** LGIN\_01

**Objective:** Check Login

**Pre-condition:** Email address and password fields must exist

**Description:**  To verify, email address input filed doesn’t accepts in-valid email pattern. Email-address ”abc”.

**Post-condition:**  Email address input field boundaries turn’s red

**Expected Result:** Error message is displayed at the bottom of the email address input filed. Error Message “Invalid Email Address”, and values are not accepted

**Actual Result:**  Accepts invalid email pattern

**Status:** Fail

**Test case id:** LGIN\_02

**Objective:** Check Login

**Pre-condition:** Email address and password fields must exist

**Description:** To verify email address input field only accepts alpha-numeric characters with @ symbol. Email-address”abc123@gmail.com”

**Post-condition:** Email address input field boundaries doesn’t changes color into red

**Expected Result:**  No error message is displayed and email address is successfully entered in the input field

**Actual Result:** Same

**Status:** Pass

**Test case id:** LGIN\_03

**Objective:** Check Login

**Pre-condition:** Email address and password fields must exist

**Description:** To verify email address input field doesn’t accepts any special character. Email address”!@#$%^&\*()”

**Post-condition:** Email address field boundaries changes it’s color into red

**Expected Result:** Error message is displayed at the bottom of email address input field. Error Message ”No special characters are allowed”, special characters are not accepted

**Actual Result:** Email address input field accepts special characters

**Status:** Fail

**Test case id:** LGIN\_04

**Objective:** Check Login

**Pre-condition:** Email address and password fields must exist

**Description:** To verify email address input filed doesn’t accept any numeric value. Email address”1234”

**Post-condition:** Email address field boundaries turn’s red

**Expected Result:** Error message is displayed at the bottom of email address input field. Error Message “Only numeric values are not allowed” , numeric values are not accepted

**Actual Result:** Email address input field accepts numeric values

**Status:** Fail

**Test case id:** LGIN\_05

**Objective:** Check Login

**Pre-condition:** Email address and password fields must exist

**Description:** To verify email address input filed doesn’t accept space bar init

**Post-condition:** Email address filed boundaries turn red

**Expected Result:** Error message is displayed at the bottom of email address input field. Error message “You cannot type with space bar”

**Actual Result:** Accepts spaces or null string

**Status:** Fail

**Test case id:** LGIN\_06

**Objective:** Check Login

**Pre-condition:**  Email and password fields must exist

**Description:** To verify password is masked on screen, password is in asterisks Password “\*\*\*\*\*\*\*”.

**Post-condition:** Password filed doesn’t change its color.

**Expected Result:** Password is successfully typed in the password input filed.

**Actual Result:** Same

**Status:** Pass

**Test case id:** LGIN\_07

**Objective:** Check Login

**Pre-condition:** Email and password fields must exist.

**Description:** To verify email address input is empty.

**Post-condition:** Email address field boundaries turn’s red.

**Expected Result:** Error message is displayed at the bottom of the email address field. Error message “Email is required”.

**Actual Result:** Empty value is allowed in email address input field

**Status:** Fail

**Test case id:** LGIN\_08

**Objective:** Check Login

**Pre-condition:** Email and password fields must exist

**Description:** To verify password field is empty.

**Post-condition:** Password field boundaries turn’s red

**Expected Result:** Error message is displayed at the bottom of the password input field. Error Message ”Password is required”

**Actual Result:** Password field doesn’t show any error on being left empty

**Status:** Fail

**Test case id:** LGIN\_010

**Objective:** Check Login

**Pre-condition:** Sign-in button must exist at the bottom of email address and password fields

**Description:** To verify sign-in button is disabled,

1. If email address input field is empty
2. If password input field is empty

**Post-condition:** Sign-in button state doesn’t change when mouse is dragged onto the button.

**Expected Result:** Sign-in button is not clickedAlert box with error message is displayed. Error Message ”The state of the form is not true”

**Actual Result:** Sign-in button is enabled

**Status:** Fail

**Test case id:** LGIN\_011

**Objective:** Check Login

**Pre-condition:** Sign-in button must exist at the bottom of email address and password fields

**Description:** To verify sign-in button is enabled,

1. If email address field is not empty, Enter email address”abc@gmail.com”.
2. If password field is not empty, Enter password”abc123”.

**Post-condition:** Sign-in button state changes when mouse is dragged onto the button

**Expected Result:** Sign-in button is clicked

**Actual Result:** Same

**Status:** Pass

**Test case id:** LGIN\_012

**Objective:** Check Login

**Pre-condition:** Email, password and sign-in button fields must exist.

**Description:** To verify email address and password field accepts registered email address and valid password. Enter Email address”abc@gmail.com”, Enter Password”abc123”.

**Post-condition:** Chat page is displayed

**Expected Result:** User is successfully logged in.

**Actual Result:** Same

**Status:** Pass

**Test case id:** LGIN\_013

**Objective:** Check Login

**Pre-condition:** Email, password and sign-in button must exist

**Description:** To verify email address input field checks case sensitivity. Email address”ABC@gmail.com”, password “abc123”

**Post-condition:** User stays on the same page.

**Expected Result:** User is not logged in error message is displayed. Error message “User is not registered”

**Actual Result:** Same

**Status:** Pass

**Test case id:** LGIN\_014

**Objective:** Check Login

**Pre-condition:** Email, password and sign-in button must exist

**Description:** To verify password input field checks case sensitivity. Email address,”abc@gmail.com”, password “ABC123”

**Post-condition:** User stays on the same page

**Expected Result:** user is not logged in error message is displayed. Error message ”Password is not correct”

**Actual Result:** Same

**Status:** Pass

**Test case id:** LGIN\_015

**Objective:** Check Login

**Pre-condition:** Email, password and sign-in button must exist

**Description:** To verify email address and password input field doesn’t accept un-registered email address and invalid password. Email address” qwe@gmail.com” , password “ert123”

**Post-condition:** User stays on the same page

**Expected Result:** User is not logged in, error message is displayed. Error message ”User is not registered”

**Actual Result:** Same

**Status:** Pass

**Test case id:** LGIN\_016

**Objective:** Check Login

**Pre-condition:** Register now link must exist at the bottom of sign-in button

**Description:** To verify register now link clicks

**Post-condition:** Sign up page is displayed

**Expected Result:** register now link is clicked

**Actual Result:** Same

**Status:** Pass

**Test case id:** SINUP\_01

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify name field accepts alphabets. Name ”Hamza”

**Post-condition:**  Name field boundaries doesn’t change color to red.

**Expected Result:** No error message is displayed and alphabets are typed in the name field .

**Actual Result:** Same

**Status:** Pass

**Test case id:** SINUP\_02

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify name field doesn’t accept numeric value. Name”123”

**Post-condition:** Name field boundaries changes it color into red

**Expected Result:** Error message is displayed at the bottom of name field. Error message ”Only alphabets are allowed ”

**Actual Result:** Name field accepts numeric values

**Status:** Fail

**Test case id:** SINUP\_03

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify name field doesn’t accept special characters. Name”!@#$”

**Post-condition:** Name field boundaries changes it color into red

**Expected Result:** Error message is displayed at the bottom of name field. Error message ”Only alphabets are allowed ”

**Actual Result:** Name field accepts special characters

**Status:** Fail

**Test case id:** SINUP\_04

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify name field accepts maximum 10 characters. Name ”Hamza Kazmi ”

**Post-condition:** Name field boundaries changes it color into red

**Expected Result:** Error message is displayed at the bottom of name field. Error message ”Maximum 10 numbers of characters are allowed”

**Actual Result:** Name field accepts more than 10 characters

**Status:** Fail

**Test case id:** SINUP\_05

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify name field accepts minimum 3 characters. Enter Name ”A ”

**Post-condition:** Name field boundaries changes it’s color into red

**Expected Result:** Error message is displayed at the bottom of name field. Error message ”Less 3 numbers of characters are not allowed”

**Actual Result:** Name field accepts less than 3 characters

**Status:** Fail

**Test case id:** SINUP\_06

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify email address filed accepts valid email pattern. Email address “qumail12@yahoo.com”

**Post-condition:** email address name field boundaries doesn’t change its color to red

**Expected Result:** No error message is displayed at the bottom of the email address name field and email address is successfully entered

**Actual Result:** Same

**Status:** Pass

**Test case id:** SINUP\_07

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify password filed accepts maximum number of 15 characters. Password “asdfghjkm123456”

**Post-condition:** email address name field boundaries doesn’t change its color to red

**Expected Result:** No error message is displayed at the bottom of the email address name field and email address is successfully entered

**Actual Result:** Same

**Status:** Pass

**Test case id:** SINUP\_08

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify password filed doesn’t accepts more than 15 characters. Password “asdfghjkm123456@#@$#”

**Post-condition:** email address name field boundaries change its color to red

**Expected Result:** Error message is displayed at the bottom of the password name field. Error Message ”Maximum 15 characters are allowed”

**Actual Result:** Accepts more than 15 characters

**Status:** Fail

**Test case id:** SINUP\_9

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify password filed doesn’t accepts less than 6 characters. Password “asdf”

**Post-condition:** password field boundaries changes its color to red

**Expected Result:** Error message is displayed at the bottom of the password field. Error Message ”Password cannot be less than 6 characters ”.

**Actual Result:** Accepts less than 6 characters

**Status:** Fail

**Test case id:** SINUP\_09

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify sign-up button is disabled,

1. If name field is empty
2. If email address is empty
3. If password field is empty

**Post-condition:** The state of signup doesn’t changes when mouse is dragged onto the button

**Expected Result:** Sign-up button is not clicked

**Actual Result:** Sign-up button is enabled

**Status:** Fail

**Test case id:** SINUP\_010

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify sign-up button is enabled,

1. If name field ”hussain”
2. If email address field “hussain@gmail.com”
3. If password field “1234”

**Post-condition:** The state of password input field changes when mouse is dragged onto it

**Expected Result:** Sign-up button is clicked

**Actual Result:** Same

**Status:** Pass

**Test case id:** SINUP\_011

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify sign-up is successful,

1. Name”zxc”
2. Email address “zxc@gmail.com”
3. Password “”zxc123

**Post-condition:** User stays on the same page

**Expected Result:** Success message is displayed. Message ”Sign-up successful”

**Actual Result:** Message is not displayed

**Status:** Fail

**Test case id:** SINUP\_012

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify name field doesn’t accepts empty value

**Post-condition:** Name field boundaries changes its color to red

**Expected Result:** Error message is displayed at the bottom of name field. Error message”Name is required”

**Actual Result:** Name field doesn’t show any error, when it is left empty

**Status:** Fail

**Test case id:** SINUP\_013

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify email address field doesn’t accepts empty value

**Post-condition:** Email address field boundaries changes its color to red

**Expected Result:** Error message is displayed at the bottom of email address field. Error message ”Email address is required”

**Actual Result:** Doesn’t show any error message, when it is left empty

**Status:** Fail

**Test case id:** SINUP\_13

**Objective:** Check Signup

**Pre-condition:** Name, email address and password fields must exist

**Description:** To verify password field doesn’t accepts empty value

**Post-condition:** Password field boundaries changes its color to red

**Expected Result:** Error message is displayed at the bottom of password field. Error message ”Password is required”

**Actual Result:** It doesn’t show any error message , when it is left empty

**Status:** Fail

**Test case id:** CHT\_01

**Objective:** Check Chat

**Pre-condition:** Users list and chat window must exist

**Description:** To verify message input filed is disabled if no user is selected

**Post-condition:** The state of the message input field is not changed when clicked in the field

**Expected Result:** unable to click and enter anything in message input field

**Actual Result:** Message input field is enabled

**Status:** Fail

**Test case id:** CHT\_02

**Objective:** Check Chat

**Pre-condition:** Users list and chat window must exist

**Post-condition:** The state of the send button is not changed when mouse dragged onto it

**Expected Result:** Unable to click send button

**Actual Result:** Send button is enabled when no user is selected for chat

**Status:** Fail

**Test case id:** CHT\_2

**Objective:** Check Chat

**Pre-condition:** Users list and chat window must exist

**Description:** To verify active status appears on the name of online user

**Post-condition:** notification appears on the top of users list next to the Users

**Expected Result:** Green color tick icon appear next to the online user name and container of the name turn light green

**Actual Result:** When any user is online no online status appears

**Status:** Fail

**Test case id:** CHT\_03

**Objective:** Check Chat

**Pre-condition:** Users list and chat window must exist

**Description:** To verify selects user for chat

**Post-condition:** Stays on the same page selected user information is displayed in chat window

**Expected Result:**

1. Name of the selected user appears on the top of the chat window
2. Sender and receiver messages appears
3. Receiver messages have receiver name before them
4. Sender messages have Me before them
5. Message input field is enabled
6. Send button is enabled

**Actual Result:** Name of the user doesn’t appears, receiver messages doesn’t have the receiver name , sender messages doesn’t have Me before it

**Status:** Fail

**Test case id:** CHT\_04

**Objective:** Check Chat

**Pre-condition:** Users list and chat window must exist

**Description:** To verify message is send to the receiver

**Post-condition:** Message send appear in chat window

**Expected Result:**

1. Toggle bar automatically slides down
2. Most recently send message appears on the bottom of the chat window
3. Message is sent to the receiver

**Actual Result:** Message is not sent

**Status:** Fail

**Test case id:** CHT\_06

**Objective:** Check Chat

**Pre-condition:** Users list and chat window must exist

**Description:** To verify receiver receives the message, receiver clicks on the container of the senders name to see messages

**Post-condition:** message appears in the chat window

**Expected Result:**

1. Notification of message received appears on the container of senders name when message is received
2. Newly received messages appears at the bottom of the chat window with the sender name

**Actual Result:**  No notification appears and newly received messages are doesn’t appear

**Status:** Fail

**Test case id:** CHT\_07

**Objective:** Check Chat

**Pre-condition:** Users list and chat window must exist

**Description:** To verify chat session is not expired on page reload

**Post-condition:** User remains on the same page

**Expected Result:** Session is not expired and the user is not logged out

**Actual Result:** Chat session expires on Page reload

**Status:** Fail

**Test case id:** CHT\_08

**Objective:** Check Chat

**Pre-condition:** Users list and chat window must exist

**Description:** To verify session is expired when user navigates to the login page

**Post-condition:** login page appears

**Expected Result:** Session is expired and user is logged out from the chat

**Actual Result:** Login session doesn’t expires

**Status:** Fail

**Test case id:** CHT\_09

**Objective:** Check Chat

**Pre-condition:** user must be on login page

**Description:** To verify chat route is secure

**Post-condition:** remains on login page

**Expected Result:** URL navigates to the login page URL” http://localhost:4200/login”

**Actual Result:** Same

**Status:** Pass

**Test case id:** CHT\_010

**Objective:** Check Chat

**Pre-condition:** user must be on login page

**Description:** To verify register route is secure

**Post-condition:** remains on login page

**Expected Result:** URL navigates to the login page URL” http://localhost:4200/login”

**Actual Result:** Can navigate through the register url doesn’t remain on the same page

**Status:** Fail

**Test case id:** DB\_01

**Objective:** Check Database Entries

**Pre-condition:** Database and auths collection must exist

**Description:** To verify all registered users are in auth document

**Post-condition:** MongoDB compass document Chat.auths appears

**Expected Result:** All they keys “\_id,created\_at,name,email,password” has values from the sihnup form

**Actual Result:** Same

**Status:** Pass

**Test case id:** DB\_02

**Objective:** Check Database Entries

**Pre-condition:** Database and messages collection must exist

**Description:** To verify all messages are in messages collection

**Post-condition:** MongoDB compass document Chat.messages appears

**Expected Result:** all the keys”\_id,created\_at,msg,from,to” has values from the chat

**Actual Result:** Same

**Status:**Pass