Chata App Test Plan

## Introduction

This test plan is designed to fully test the functional and usability requirements of the chata app.

Test Cases

[Introduction 1](#_Toc467088039)

[Login Page 2](#_Toc467088040)

[**Test Valid Login** 2](#_Toc467088041)

[**Test Invalid Login** 2](#_Toc467088042)

[**Test Wrongly Formatted Email** 2](#_Toc467088043)

[**Test Register Link** 2](#_Toc467088044)

[Register Page 3](#_Toc467088045)

[**Test Wrongly Formatted Email** 3](#_Toc467088046)

[**Test non-matching passwords** 3](#_Toc467088047)

[**Test uploading profile picture** 3](#_Toc467088048)

[**Test Login Link** 3](#_Toc467088049)

[**Test Taken Username** 4](#_Toc467088050)

[Profile Page 4](#_Toc467088051)

[**Test uploading profile picture** 4](#_Toc467088052)

[**Test Taken Username** 4](#_Toc467088053)

[**Test Changing Email Success** 5](#_Toc467088054)

[**Test Changing Password Success** 5](#_Toc467088055)

[**Test Wrongly Formatted Email** 5](#_Toc467088056)

[**Test Taken Username** 5](#_Toc467088057)

[**Test non-matching passwords** 6](#_Toc467088058)

[**Test Invalid Old Password Value** 6](#_Toc467088059)

[**Test uploading profile picture** 6](#_Toc467088060)

[Chat Page 6](#_Toc467088061)

[**Test sending message** 6](#_Toc467088062)

[**Test sending message (without mouse)** 7](#_Toc467088063)

[**Test receiving message** 7](#_Toc467088064)

[**Test Logout Link** 7](#_Toc467088065)

[**Test Profile Link** 7](#_Toc467088066)

## Login Page

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Valid Login** | Successful Path | Enter a valid login name and password into the fields and submit the form. | The login is successful and you are redirected to the chat page. |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Invalid Login** | Correct validation but invalid login credentials | Enter an invalid but correctly formatted login name and password into the fields and submit the form. | An error is returned stating that the username or password is incorrect. |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Wrongly Formatted Email** | Incorrectly formatted email on the login page. | Enter an invalid and incorrectly formatted email into the email field and submit the form. EG test | An error is returned prompting the user that the email is not a valid email address. |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Register Link** | Connectivity between login and register page. | Click the register link on the login page. | The register page opens. |  |

## Register Page

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Wrongly Formatted Email** | Incorrectly formatted email on the register page. | Enter an invalid and incorrectly formatted email into the email field and submit the form. EG test | An error is returned prompting the user that the email is not a valid email address. |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test non-matching passwords** | Passwords do not match | Enter two different strings into each of the password fields and submit the form | User is informed that the passwords do not match |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test uploading profile picture** | Test image preview and upload | Select an image using the upload file button and submit the form | The image is previewed in the window and on submit the image is added to the user profile. |  |

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| --- | --- | --- | --- | --- |
| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Login Link** | Connectivity between register and login page. | Click the login link on the register page. | The login page opens. |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Taken Username** | Username is already in use | Submit the form with correct credentials but an already taken username | The user is prompted that the username is taken and to choose another one |  |

## Profile Page

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test uploading profile picture** | Test image preview and upload | Select an image using the upload file button and submit the form | The image is previewed in the window and on submit the image is added to the user profile. |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Taken Username** | Username is already in use | Submit the form with correct credentials but an already taken username | The user is prompted that the username is taken and to choose another one |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Changing Email Success** | Changing Email | Submit the form with an altered email address | The email address is updated on the user profile and in the database |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Changing Password Success** | Changing Password | Submit the form with an altered password value | The password is updated on the database and the hashed value on the page is the same character length as the new password |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Wrongly Formatted Email** | Incorrectly formatted email on the profile page. | Enter an invalid and incorrectly formatted email into the email field and submit the form. EG test | An error is returned prompting the user that the email is not a valid email address. |  |

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| --- | --- | --- | --- | --- |
| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Taken Username** | Username is already in use | Submit the form with correct credentials but an already taken username | The user is prompted that the username is taken and to choose another one |  |

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| --- | --- | --- | --- | --- |
| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test non-matching passwords** | Passwords do not match | Enter two different strings into each of the password fields and submit the form | User is informed that the passwords do not match |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Invalid Old Password Value** | Password change invalid old password | Enter an invalid old password and valid new passwords | An error is returned stating that the old password is incorrect. |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test uploading profile picture** | Test image preview and upload | Select an image using the upload file button and submit the form | The image is previewed in the window and on submit the image is added to the user profile. |  |

## Chat Page

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test sending message** | Sending chat message | Enter a message into the text box and press the send button | The message appears on the chat with your username, profile picture and timestamp of post |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test sending message (without mouse)** | Sending chat message with enter key | Enter a message into the text box and press the enter key | The message appears on the chat with your username, profile picture and timestamp of post |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test receiving message** | Receiving chat messages from other users | Log into the application on 2 different accounts, send a message from one account, check the chat on the other account | The message appears on the chat with the other user's name, profile picture and time stamp of the message |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Logout Link** | Test the logout link | Click the logout link | The user is returned to the login screen and is unable to access the chat page again without re-entering credentials |  |

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| **Test Case Name** | **Description** | **Steps** | **Expected Result** | **Actual Result** |
| **Test Profile Link** | Connectivity between chat and profile page. | Click the profile link on the chat page. | The profile page opens showing information on the user's account. |  |