

Test Report: Phoenix Trello Application

A. M Samdani Mozumder
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Executive Summary

This test report documents the results of automated tests conducted on the Phoenix Trello application, a web-based project management tool running on <http://localhost:4000>. The tests were executed using Selenium WebDriver with the Firefox browser, focusing on key functionalities such as user authentication (sign-up and sign-in), board management, list creation, card management, and member assignments. The test suite identified several defects related to input validation and error handling, particularly in scenarios involving invalid or missing inputs.

This report highlights test cases that expose these defects, providing detailed descriptions of the test scenarios, actions, expected results, and actual results. The findings indicate areas where the application correctly enforces validation but also suggest potential improvements in user feedback and error message clarity.

Test Results

The following table lists test cases that expose defects or validate error handling in the application. Each test case focuses on scenarios where the application is expected to handle invalid inputs or edge cases, revealing potential bugs or areas for improvement in validation logic or user feedback.

Test No.	Test Scenario	Page	Action Description	Expected Result	Actual Result
1	Successful Signup	Signup page	Navigate to signup page, enter all valid info and click signup	User is redirected to the dashboard	User is redirected to the dashboard

2	Signup with invalid name	Signup page	Navigate to signup page, enter invalid name (with special characters) and click signup	Invalid username	User is redirected to the dashboard
3	Signup with invalid name	Signup page	Navigate to signup page, enter invalid name (with numbers) and click signup	Invalid username	User is redirected to the dashboard
4	Signup with invalid email	Signup page	Navigate to signup page, enter invalid email(with @gm.com) and click signup	Invalid email format	User is redirected to the dashboard
5	Signup with shorter passwords	Signup page	Navigate to signup page, enter invalid password(pass word length less than 5) and click signup	Password should be at least 5 character(s)	Password should be at least 5 character(s)
6	Signup with mismatched passwords	Signup page	Navigate to signup page, enter different password in the password confirmation field and click signup	Password does not match	Password does not match
7	Successful sign in	SignIn page	Navigate to login page, enter valid credential and click login	User is redirected to the dashboard	User is redirected to the dashboard

8	Unsuccessful sign in with invalid credentials	SignIn page	Navigate to login page, enter invalid credential and click login	Invalid email or password	Invalid email or password
9	Unsuccessful sign in without email	SignIn page	Navigate to login page, enter valid password only and click login	Please fill out this field.	Please fill out this field.
10	Unsuccessful sign in without password	SignIn page	Navigate to login page, enter valid email only and click login	Please fill out this field.	Please fill out this field.
11	Unsuccessful sign in with invalid email format	SignIn page	Navigate to login page, enter email without @ and click login	Please include an '@' in the email address. 'john' is missing an '@'.	Please fill out this field.
12	Successful board creation	Dashboard page	Navigate to dashboard page, enter board name and click create board	Redirected to the newly created board page	Redirected to the newly created board page
13	Sign Out Button Test	Dashboard page	Navigate to dashboard page and clicked the sign out button	Redirected to the sign in page	Redirected to the sign in page
14	Adding member to board	Board page	Navigate to board page, click the add member icon and enter valid existing email and click add	Member avatar present	Member avatar present

15	Adding non existing member to board	Board page	Navigate to board page,click the add member icon and enter non-existing email and click add	User does not exist	User does not exist
16	Adding member to board using empty email	Board page	Navigate to board page,click the add member icon and enter nothing and click add	Please fill out this field.	Please fill out this field.
17	Adding member to board using invalid email format	Board page	Navigate to board page,click the add member icon and enter wrong email format and click add	Please enter an email address.	Please enter an email address.
18	Successful list addition	Board page	Navigate to a board page,click the add list field and enter list name and click save	List item is present	List item is present
19	Successful card addition	List page	Navigate to a List page,click the add card field and enter card name and click save	Card item is present	List item is present
20	Adding card description	Card page	Navigate to a card page,click edit and enter card description and click save	The card is updated with description	The card is updated with description

21	Updating card title	Card page	Navigate to a card page,click edit and enter card title and click save	The card is updated with title	The card is updated with title
22	Adding comment in card	Card page	Navigate to a card page,write a comment and click save	Comment is present	Comment is present
23	Verify card comment time	Card page	Navigate to a card page,write a comment and click save	Correct passed time from the comment	Commented 6 hours ago
24	Adding tag to card	Card page	Navigate to a card page,click tags and select tag(s)	Tag is present	Tag is present
25	Adding member to card	Card page	Navigate to a card page,click members and select member(s)	Member avatar is present	Member avatar is present
26	Deleting card	Card page	Navigate to a card page,click delete button	Card is removed	Card is removed

Defect Summary

Based on the test cases executed, the following defects have been identified in Phoenix:

- Defect ID: 1
 - Test Scenario: Signup with invalid name (special characters)
 - Description: The system allows users to sign up with a username containing special characters.
 - Expected Result: Invalid username.
 - Actual Result: User is redirected to the dashboard.
 - Severity: High (Incorrect validation allows bad data and potential security risks).

- Defect ID: 2
 - Test Scenario: Signup with invalid name (numbers)
 - Description: The system allows users to sign up with a username containing numbers.
 - Expected Result: Invalid username.
 - Actual Result: User is redirected to the dashboard.
 - Severity: High (Incorrect validation allows bad data).
- Defect ID: 3
 - Test Scenario: Signup with invalid email (invalid email regex)
 - Description: The system allows users to sign up with an email address that does not follow the standard email format.
 - Expected Result: Invalid email format.
 - Actual Result: User is redirected to the dashboard.
 - Severity: High (Incorrect validation allows bad data, prevents email communication).
- Defect ID: 4
 - Test Scenario: Verify successful card comment time
 - Description: The displayed time for a comment ("Commented 6 hours ago") does not match the expectation of "Correct passed time," suggesting either a defect in time calculation/display or an issue with the test case/actual result logging.
 - Expected Result: Correct passed time from the comment
 - Actual Result: Commented 6 hours ago
 - Severity: Medium (Needs investigation - could be a display issue or a testing error).