Test Plan Document for Trello

Version 1.0 Approved

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For

QA Internship

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Test Plan Document – Trello

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1 Revision History

Revision	Date	Updated by	Update Comments
0.1	24 May 2025	Akid Mahmud	Initial Draft: Defined test plan structure and objectives
0.2	24 May 2025	Akid Mahmud	Second Draft: Added test scope and schedule
0.3	25 May 2025	Akid Mahmud	Third Draft: Refined test cases and environment details
1.0	26 May 2025	Akid Mahmud	Final Version: Approved after QA feedback

2 Project Overview

This Test Plan outlines the strategy and scope for testing **Trello**, a web-based project management and productivity platform. Trello offers an intuitive way for users to manage projects through boards, lists, and cards. It supports collaborative planning, task tracking, integrations (Power-Ups), and real-time updates.

The goal of this QA effort is to rigorously validate 10 essential features that represent the core experience of Trello's user interface and functional behavior. This will include both manual validation and a foundational automation script using Selenium to simulate real user interaction.

2.1 Document Metadata

- **Document Title:** Trello Platform Test Plan Document
- **Platform Analyzed:** Trello
- **Prepared For:** QA Internship
- **Prepared By:** Akid Mahmud
- **Date of Submission:** May 26, 2025

3 Testing Scope and Objectives

3.1 Scope of Testing

The scope of this QA session is limited to **front-end functional and usability testing** across major devices and browsers. Specifically, testing will focus on:

- Core UI features (Boards, Lists, Cards)

- Task tracking functionalities (Labels, Due Dates, Checklists)
- Collaboration tools (Invites, Comments, Notifications)
- Enhanced features (Power-Ups, Templates)
- Device compatibility (Mobile/Desktop)

3.2 Objectives

- Verify that all user-interactive features meet their functional expectations under various inputs and conditions.
- Ensure the platform is intuitive and user-friendly across operating environments.
- Identify and document any bugs, workflow bottlenecks, or display inconsistencies.
- Establish a test foundation to support scalable automation in future regression cycles.

4 Assumptions & Risks

4.1 Assumptions

- Trello is accessible via stable internet connections for online testing.
- Test environments (browsers, devices, OS) are available and configured correctly.
- The QA team has access to valid Trello accounts with necessary permissions.
- Test data (e.g., boards, cards, templates) can be created and deleted without impacting production.
- Third-party integrations (Power-Ups) are available for testing with valid credentials.

4.2 Risks

- **Network Interruptions**: Unstable connections may affect testing of features like drag-and-drop or notifications. *Mitigation*: Include offline testing scenarios for mobile apps.
- **Limited Device Access**: Unavailability of specific mobile devices or OS versions may restrict cross-platform testing. *Mitigation*: Prioritize widely used devices and emulators.
- **Third-Party Integration Failures**: Power-Ups may fail due to external service

issues. *Mitigation*: Test integrations with mock APIs where possible.

- **Time Constraints**: Tight deadlines may limit exhaustive testing. *Mitigation*: Prioritize high-impact features and automate repetitive tests.

5 Types of Testing

The following testing types will be applied to ensure comprehensive validation:

- **Functional Testing**: Verify that each feature works as per the PRD acceptance criteria (e.g., creating a board, moving cards).
- **Usability Testing**: Assess user-friendliness, intuitiveness, and accessibility of features like drag-and-drop and mobile support.
- **Regression Testing**: Ensure that new updates or bug fixes do not break existing functionalities.
- **Integration Testing**: Validate that Power-Ups (e.g., Google Drive, Slack) integrate seamlessly with Trello.
- **Negative Testing**: Test edge cases, such as invalid inputs or lack of permissions, to ensure graceful error handling.
- **Cross-Platform Testing**: Confirm consistent behavior across web, desktop, and mobile platforms.

6 Test Approach and Methodology

6.1 Test Approach

The testing process will combine manual and automated testing to achieve thorough coverage:

- **Manual Testing**: Conduct exploratory and scripted testing for usability, negative scenarios, and complex workflows (e.g., team collaboration).
- **Automated Testing**: Develop Selenium-based scripts in JavaScript to automate repetitive functional tests (e.g., board creation, card movement).

6.2 Methodology

- **Test Case Development**: Create detailed test cases for each feature, covering positive, negative, and edge-case scenarios.

- **Defect Tracking**: Log defects with clear steps to reproduce, severity, and screenshots using tools like Jira or Excel.
- **Iterative Testing**: Conduct multiple testing cycles to validate fixes and ensure regression-free functionality.
- **Prioritization**: Focus on high-impact features (e.g., board management, collaboration) to maximize defect detection.

7 Test Environment

The testing will be conducted in the following environments:

- **Browsers**: Chrome (latest), Brave (latest)
- **Operating Systems**: Windows 11, Android 14.
- **Devices**: Desktop (1920x1080 resolution), Redmi Note 12 Pro (Android)
- **Trello Platform**: Web app (trello.com).
- **Network**: Stable Wi-Fi for online tests;

8 Test Entry and Exit Criteria

8.1 Entry Criteria

- PRD is finalized and approved.
- Test cases are documented and reviewed.
- Test environment is set up with access to Trello accounts.
- Automation scripts are ready for execution.

8.2 Exit Criteria

- All test cases are executed with at least 95% pass rate.
- Critical and high-severity defects are resolved.
- Regression testing confirms no new issues.
- Test results and defect reports are documented and shared with stakeholders.

9 Roles and Responsibilities

- **QA Engineer (Akid Mahmud)**:
  - Develop and execute test cases.
  - Perform manual and automated testing.
  - Log and track defects.
  - Document test results and provide reports.

9.1 Framework, Tools, and Language

As specified for the QA assignment, the following framework, tools, and language are used for the deliverables:

- **Framework:** Selenium WebDriver for automation testing.
- **Tools:** Visual Studio Code for scripting, LaTeX for document creation, and GitHub for code submission.
- **Language:** JavaScript for automation scripts.
- **Document Format:** All documents (PRD, Test Plan, Test Cases) are delivered in PDF format, with automation scripts in a separate folder containing a README.md file.

10 Test Schedule and Deliverables

10.1 Deliverables

- Test Plan Document (this document).
- Test Case Document covering 2–3 test cases per feature.
- Selenium automation script with README.md.
- Test execution report summarizing results and defects.

10.2 Test Schedule

tableTest Schedule

Task	Estimated Effort	Timeline
Test Case Development	3 hours	May 24, 2025
Test Environment Setup	2 hours	May 24, 2025
Manual Testing (Functional, Usability)	7 hours	May 25, 2025
Automated Testing (Selenium Script)	3 hours	May 25, 2025
Defect Logging and Tracking	2 hours	May 25–26, 2025
Regression Testing	2 hours	May 26, 2025
Test Report Generation	1 hour	May 26, 2025
Total	**20 hours**	**May 24–26, 2025**

Table 1: Test Schedule

11 References

1. https://katalon.com/resources-center/blog/test-case-template-examples
2. https://www.browserstack.com/guide/test-case-templates