

Trello Mobile Application Test Plan

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INTRODUCTION

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project **Trello Mobile Application**. The plan identify the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan

1 TEST STRATEGY

1.1 Scope of Testing:

1.1.1 Feature to be tested:

All the feature of Trello Mobile Application which were defined in software requirement specs are need to be tested

Features	Description
Login	Requires user identification and authentication, regularly performed by entering a username and password combination. to login in Trello board successfully
Registration	<ul style="list-style-type: none">• User should register with new account• User should register with Google Account• User should register with Microsoft Account• User should register with Apple Account• User should Recieve verification mail when user registered successfully
Trello boards	<p>Trello boards are the basis of the entire platform, as Trello task management operates on a kanban project management system.</p> <p>You can create multiple boards for your projects.</p> <p>The board system also lets you oversee your project progress at all times. Task cards listed on the main Trello dashboard make it even easier.</p> <p>To move a task card from one task status to another in a workflow, drag and drop the card to another status, and that'll automatically notify all your teammates.</p>
Lists feature	<p>A list is a collection of vertically-arranged cards. They may represent a collection of ideas, things to remember, or different stages of a workflow.</p> <ul style="list-style-type: none">• Create new List• Edit the List• Archive the List

Cards feature	<p>A Trello card (the smallest unit of work) is typically an individual task in your workflow. You can include: (Task descriptions, Attachments, Subtasks ,Due dates)</p> <ul style="list-style-type: none"> • Create new Card • Edit the Card • Archive the Card • Delete Card • Move Card from list to another
Sync Queue	<p>Make sure The card actions/ list actions / board actions / replay and comments actions are synced between all devices which is logging with the same account</p>

1.1.2 Feature not to be tested:

The following features:

1. Integrations feature → Trello has an entire page full of apps and add-ons called “power-ups.” They open the door to a whole new world of additional abilities that can enhance Trello project management.
2. Butler feature → Butler is an automation feature in Trello.

Are out of scope in this project as per plan these features will be released in Phase 2 of project

1.2 Test Type

In the project Trello Mobile application, We will apply all testing levels ,to evaluate the system's compliance with its specified

1.3 Risk and Issues

Risk	Mitigation
Mobile Applications must be tested on different types of Mobiles and Operating systems	Testing team should have different types of real devices to execution UAT testing , Also should execute automation scripts for regression Perspective to make sure the main functions is working properly on different emulators using one of mobile automation tool like Appium
Business user should be fully aware of project management business flow	Provide Training for testers to be aware of project managements workflow
Boards , Lists , Cards names can be repeated Which can cause conflicts in testing cycles	Testing team should agree on clear methodology to avoid that conflict

1.4 Test Logistics

1.4.1 Who will test?

Number of Testers is defined based on project time and features, so we need 7 Testers to be delighted for this project, Moreover development team members that engaged in this project should execute unit testing.

1.4.2 When will test occur?

The testers will start the test execution when all the following inputs are ready

Software is available for testing

Test Specification is created

Test Environment is built on different on both (IOS/ Android)

7 Testers are delighted for that project

2 TEST OBJECTIVE

The test objectives are to verify that all in scope Functions of Trello is working properly to guarantee all these features can -work normally in real business environment.

3 TEST CRITERIA

3.1 Suspension Criteria

If the team members report that there are 30% of test cases failed, suspend testing until the development team fixes all the failed cases.

If the team members report that there are 5% of test cases failed due to showstoppers issues, suspend testing until the development team fixes these ones.

If the team members said that the application crash of specific operating system, suspend testing on this operating system until development team fix this issue.

3.2 Exit Criteria

Specifies the criteria that denote a successful completion of a test phase

Run rate is mandatory to be 100% unless a clear reason is given.

Pass rate is 85%, achieving the pass rate is mandatory.

All showstopper issues are fixed.

Application should be tested on 5 Versions of Android and 3 versions of IOS

RESOURCE PLANNING

4.1 System Resource

No	Resources	Usage
1	Test management tool like jira	to create user stories / Test cases / Bugs
2	Network	Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s
3	Five different Android devices	To test Trello mobile App on different Android versions
4	Three different IOS devices	To test Trello mobile App on different IOS versions
5	SIM Cards	To check that Connection will not affected if Clients opens App through mobile data
6	Two Virtual Machine	At least one virtual Machine to setup Appium server-Android studio Emulators– Eclipse for automation perspective
7	Source Control Tool	To manage build versions and releases
8	CICD Tool (Jenkins)	To Achieve one of the most important agile concepts

4.2 Human Resource

No	Responsible	Task
1	Test Manager	Manage the whole project Define project directions Manage Resources
2	Five Manual Testers & Two Automation Engineer	identifying and describing appropriate test techniques/ tools/ Build automation architecture framework/ Develop Test Scripts / _Verify and assess the Test Approach Implement the test cases, test suite Execute the tests, Log results, Report the defects.
3	Test Administrator	Builds up and ensures test environment and assets are managed and maintained Support Tester to use the test environment for test execution
4	QA member (senior Level)	Take in charge of quality assurance Check to confirm whether the testing process is meeting specified requirements
5	Devops Engineer	Create Pipeline and priorities Jobs in Jenkins

5 TEST ENVIRONMENT

Test Environment should be setup (APK) on Test Devices (Mobiles) and linked to database server , Also APK and Emulators should be setup on Virtual machines

6 SCHEDULE & ESTIMATION

All project task and estimation

Task	Members	Estimate effort	Start Date	End Date
Create Test Scenarios and Test cases and Automation scripts	5 Manual Testers & two automation Engineers	40 Hours	26/3/2023	31/03/2023
Create the test specification/ SetupEnvironment	QA/One senior Tester / Test Administrator	24 Hours	01/04/2023	04/04/2023
Perform Test Execution	5 Manual Testers & two automation Engineers	80 Hours	05/04/2023	17/04/2023
Test Report	Tester	16 Hours	18/04/2023	20/04/2023
Test Delivery / Service Delivery management	Test Manager	8 Hours	21/04/2023	21/04/2023
Total		168 Hours		

7 TEST DELIVERABLES

7.1 Before testing phase

Test plans document - Test cases documents - Test Design specifications

7.2 During the testing

Test Tools- Test Data - Test Traceability Matrix - Error logs and execution logs.

7.3 After the testing cycles is over

Test Results/reports - Defect Report - Release notes – Closure report for this phase

References

Main Points of test plan → ISTQB –FL syllabus chapter 5

Software Testing Help Templates

Clickup – Website as simple references to explain Trello features