Tasks.org (Android) - Master Test Plan

Tasks.org – Android apk (v14.8.3)

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Prepared by:

Hala Mousa

Mohammad Badawi

Saif Araj

Ahmed Abdallatif

Table of Contents

1. Introduction

This document describes the overall strategy, objectives, scope, resources, environment, and schedule for testing the Tasks.org mobile application.

Tasks.org is an open-source task management app that allows users to create, organize, and track tasks with features such as grouping, sorting, subtasks, due dates, priorities, and synchronization. The goal of testing is to ensure functionality, reliability, usability, and compatibility across supported Android devices.

1.1. Objective

To ensure functional correctness, usability, accessibility, and stability of the Tasks.org Android app through workflow-based manual and automation testing, covering task creation, editing, deletion, grouping, sorting, subtasks, reminders, completed tasks, and offline/online sync.

1.2. Background

Tasks.org is a popular open-source to-do list and task manager app. This test plan focuses on the Android application (v14.8.3) downloaded from the Play Store. The project emphasizes real-user task management workflows such as task creation, grouping by due/start date, sorting, handling completed tasks, and reminders.

2. Scope

2.1. In-Scope:
2.1.1. Add a New Task
2.1.2. Edit an Existing Task
2.1.3. Delete a Task
2.1.4. Mark Task as Completed / Incomplete
2.1.5. Set Due Date & Time Reminder
2.1.6. Search Functionality
2.1.7. Sort & Filter Tasks

2.2. Out-of-Scope:
2.2.1. All features not included in In-Scope.
2.2.2. iOS & Web platforms.
2.2.3. Performance, Load testing, Stress testing.
2.2.4. Deep analytics validation.
2.2.5. Non-functional features.

3. Test Methodology

3.1. Manual Testing: Verify workflows and regression.
3.2. Automation Testing: Appium + TestNG scripts for CRUD operations, grouping, sorting, subtasks, and reminders.
3.3. Functional Testing: Ensure all modules behave according to SRS specifications.

4. Approach

Modules	Test Type	Test Cases Coverage	Automation Coverage
Add a New Task	Functional	TC - 01 to TC – 14	100%
Edit an Existing Task	Functional	TC - 15 to TC – 19	100%
Delete a Task	Functional	TC - 20 to TC – 31	100%
Mark Task as Completed / Incomplete	Functional	TC - 32 to TC – 42	100%
Set Due Date & Time Reminder	Functional	TC - 43 to TC – 57	100%
Search Functionality	Functional	TC - 58 to TC – 71	100%
Sort & Filter Tasks	Functional	TC - 72 to TC – 86	100%

5. Risks

Risk	Impact	Trigger	Mitigation/ Contingency Plan
Push delivery delay	Delay project	1 Day delay	Use in-app reminder as backup evidence
Incorrect role access	Delay project	1 Day delay	Test permissions in early staging
Automation script failures	Delay project	1 Day delay	Use stable locators, explicit waits

6. Roles & Responsibilities

Role	Responsibility
QA Lead	Manage plan, review test cases
QA Engineer	Write test cases, execute tests, report bugs
Developers	Fix bugs
Product Owner	Oversee QA progress, approve deliverables

7. Schedules

7.1. Schedule by Phase

Phase	Duration	Start Date - End Date
SRS Design and Analysis & Trello Setup & Test Planning Design & RTM & Test Case Design	1 Day	17/09/2025 - 17/09/2025
Java Maven Project Setup & Android Studio Device/s & Appium & Automation Coding & Test Execution	2 Day	18/09/2025 - 19/09/2025
Automation Coding & TestNG Report & Bug Report & Test Summary Report & Presentation Design	1 Day	22/09/2025 - 22/09/2025
Presentation	1 Day	23/09/2025 - 23/09/2025

7.2. Schedule by Feature

Feature	Duration	Start Date - End Date
2.1.1. Add a New Task		
2.1.2. Edit an Existing Task		
2.1.3. Delete a Task		
2.1.4. Mark Task as Completed / Incomplete	2 Days	17/09/2025 - 19/09/2025
2.1.5. Set Due Date & Time Reminder		
2.1.6. Search Functionality		
2.1.7. Sort & Filter Tasks		

8. Defect Tracking

8.1 Tool: Trello & PDF Bug Report.
8.2 Severity Levels:
8.2.1. Critical: Blocks login – Immediate Attention.
8.2.2. Major: Impacts core functions.
8.2.3. Minor: Low impact bugs.

9. Test Environment

9.1 Devices: Pixel 7 (Android 13, 16).
9.2 Build Source: Google Play Store public release (v14.8.3).
9.3 Tools: Android Studio, Appium, Eclipse, TestNG.
9.4 Accounts: Test accounts with multiple lists/tasks.
9.5 Locales: English (US).

10. Entry & Exit Criteria

10.1 Entry Criteria:
   10.1.1. Requirements (SRS) are reviewed and approved.
   10.1.2. Test Plan accepted.
   10.1.3. Test Environment is setup complete.
   10.1.4. Test Cases documented.
   10.1.5. Tools are accessible (Eclipse, TestNG, Appium, Android Studio, Trello, Microsoft 365, GitHub).
   10.1.6. Functional build deployed.

10.2 Exit Criteria:
   10.2.1. All test cases executed.
   10.2.2. Critical bugs resolved.
   10.2.3. Bug reports submitted.
   10.2.4. Test Summary Report completed.
   10.2.5. Deliverables handed over.

11. Deliverables

Deliverable	For	Date - Milestone
Trello Board (Tasks)	Product Owner, Dev Team, QA Team, Scrum Master	17/09/2025 – Sprint Kickoff
SRS (Software Requirements Specification)	QA Lead, Test Manager, Product Owner, Dev Lead	17/09/2025 - Test Readiness
Test Plan	QA Lead, Test Manager, Product Owner, Dev Lead	17/09/2025 - Test Readiness
Test Cases	QA Engineers, Dev Lead, Product Owner	17/09/2025 - Test Execution
RTM (Requirements Traceability Matrix)	QA Engineers, Dev Lead, Product Owner	17/09/2025 – Requirement Sign-Off
Setup Environment (Android Studio + Appium Server + Appium Inspector + Eclipse) & Automation Testing Scripts (Java + TestNG + Appium)	QA Lead, Dev Lead, Product Owner, Stakeholders	18/09/2025 – Automation Execution
Bug Report	QA Engineers, Dev Lead, Product Owner	22/09/2025 – Defect Triage Completion
TestNG Reports	QA Lead, Dev Lead, Product Owner, Stakeholders	22/09/2025 – Automation Execution
Test Summary Report	QA Lead, Dev Lead, Product Owner, Stakeholders	22/09/2025 - Test Closure & Go-No-Go Decision
Presentation (Final Project Delivery)	QA Lead, Dev Lead, Product Owner, Stakeholders	22/09/2025 – Project Delivery
GitHub Repository (Project Hand-off)	QA Lead, Dev Lead, Product Owner, Stakeholders	22/09/2025 – Project Delivery

12. Tools Used in Project

12.1. Trello: Task tracking and project management

12.2. Appium: Mobile app automation for Android

12.3. TestNG: Test execution and reporting.

12.4. Java: Programming language for automation scripts.

12.5. Microsoft 365: Test case design, RTM, documentation, reporting.

12.6. GitHub: Version control and project handoff.

12.7. Eclipse: IDEs for automation coding and script execution.

12.8. Android Studio: Mobile app emulator/simulator, device management, debugging.

13. References

13.1. Software Requirements Specification (SRS) Document – Tasks.org.

13.2. Tasks.org Android app (v14.8.3).

13.3. Google Play Store build (latest).

14. Approval

Role	Name	Signature
QA Lead	Saif Araj	Saif
Project Manager		