LinkedIn Mobile Automation Test Plan

# Introduction

This document outlines the strategy and approach for automated testing of the LinkedIn mobile application (Android) and performance testing of the JSON Placeholder API (<https://jsonplaceholder.typicode.com/>) using JMeter.

The goals are:

* Mobile: Ensure LinkedIn delivers a high-quality, reliable, and seamless user experience.
* API: Validate JSON Placeholder API endpoints under load, ensuring response correctness, reliability, and scalability.

# In Scope

- Mobile (LinkedIn App): Core user flows – Login, Profile management, Messaging, Feed browsing, Connections, and Searching.

- API (JSONPlaceholder): Performance testing of GET /posts and POST /posts under various scenarios (load, stress, spike, endurance, peak, negative).

# Out of Scope

All types of testing exclude Functionality Testing, like:

* + Non-mobile features (web functionality).
  + API Testing.

-Database Testing.

-Unused JSONPlaceholder endpoints such as /comments, /albums, /photos, /todos,

users, and other methods not part of test scenarios (e.g., PUT, PATCH, DELETE)

# Test Schedule

| Feature | Responsible | Milestone/Release Target |
| --- | --- | --- |
| Login/Auth | Ahmed | Sprint 1 |
| Feed Browsing | Aya Sh | Sprint 2 |
| Messaging | Aya Ali | Sprint 2 |
| Profile/Edit | Ahmed | Sprint 3 |
| connections | Haya | Sprint 3 |
| Searching | Haya | Sprint 4 |

**6.Test Approach**

* + Agile methodology with daily iterations and rapid feedback.
  + Automation using Appium (Android).
  + Functional, UI, and regression for core flows.
  + Test cases assert navigation, data correctness, device compatibility, app behavior, and performance.

- API Performance (JSONPlaceholder)

-Tool: Apache JMeter

-Test Design:

- Separate **Thread Groups** for each scenario

-Add HTTP Request samplers (GET/POST)

-Add Assertions (response code = 200, JSON validation)

-Add Timers (think time simulation)

-Add Listeners: View Results Tree, Aggregate Report, Summary Report

**6.Responsibilities**

| **Role** | **Staff member** | **Responsibilities** |
| --- | --- | --- |
| **Project Manager** | Ahmad Badaha | - Oversee project execution  - Approve test plan and strategy  - Ensure resources and timelines are aligned |
| **Scrum Master** | | Haya  Abu Hajeer | | --- |  |  | | --- | | - Facilitate Agile ceremonies  - Remove blockers for QA team  - Support continuous improvement in testing processes |
| **QA Team** | Haya Abu Hajeer  Aya Shanteer  Aya Abu Ali  Ahmad Badaha | - Design and execute test cases  - Perform functional, performance, and endurance testing  - Report bugs and track them in bug tracking tool  - Ensure requirements are covered in test plan (traceability)  - Provide test execution reports and analysis |

# 7.Suspension Criteria and Resumption Requirements

-Suspension: Testing will be suspended if there is an internet connectivity issue affecting the Gaza side, interrupting access to the LinkedIn mobile app or test

infrastructure.

-API: Suspend if JSONPlaceholder service is unavailable or rate-limited.

* + Resumption: Testing will resume once internet connectivity in Gaza is restored and stable enough to support normal testing operations.

# 8.Milestones and Deliverables

Before Testing:

mobile user stories, SRS alignment, app builds, test plan, test suite

JMeter script creation for JSONPlaceholder scenarios.

During Testing:

Mobile: automated execution, result logging, defect tracking.

API: JMeter execution, collect results, monitor metrics

After Testing: test summary, pass/fail metrics, Performance report including graphs for response times, throughput, error rates.

# 9.Responsibilities

* + Project Manager: resource, timeline, and risk oversight.
  + Scrum Master: facilitate ceremonies and resolve blockers.
  + QA Team: writes/executes test cases, prepares test data, defect reports, review meetings, and device coverage.

# 10.Test Environment

* + OS: Android.
  + Devices: smartphones.
  + Tools: Appium, emulator/simulator, and Eclipse ,Jmeter.