LinkedIn Mobile Automation & JSONPlaceholder Performance Test Plan

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# 1. Introduction

This document outlines the strategy and approach for automated testing of the LinkedIn mobile application (Android) and performance testing of the JSONPlaceholder API (https://jsonplaceholder.typicode.com/) using JMeter.  
  
Goals:  
- Mobile: Ensure LinkedIn delivers a high-quality, reliable, and seamless user experience.  
- API: Validate JSONPlaceholder API endpoints under load, ensuring response correctness, reliability, and scalability.

# 2. 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).

# 3. Out of Scope

- Non-mobile features (web functionality).  
- LinkedIn API/database testing.  
- Server-side monitoring.  
- Unused JSONPlaceholder endpoints: /comments, /albums, /photos, /todos, /users, and methods not part of test scenarios (PUT, PATCH, DELETE).

# 4. Test Schedule

| Feature | Responsible | Sprint |
| --- | --- | --- |
| Login/Auth | Ahmed | Sprint 1 |
| Feed Browsing& Posts | Aya Sh | Sprint 2 |
| Messaging | Aya Ali | Sprint 2 |
| Profile/Edit | Ahmed | Sprint 3 |
| Connections | Haya | Sprint 3 |
| Searching | Haya | Sprint 4 |

# 5. Test Approach

Mobile Automation (LinkedIn):  
- Agile methodology with daily iterations and rapid feedback.  
- Automation using Appium (Android).  
- Functional, UI, and regression for core flows.  
- Assertions: navigation, data correctness, device compatibility, app behavior, performance.  
  
API Performance (JSONPlaceholder):  
- Tool: Apache JMeter.  
- Test Design:  
 - Separate Thread Groups per scenario.  
 - HTTP Request samplers (GET/POST).  
 - Assertions (response code = 200, JSON validation).  
 - Timers for realistic load simulation.  
 - Listeners (View Results Tree, Aggregate Report, Summary Report).

# 6. Responsibilities

| Role | Staff Member(s) | Responsibilities |
| --- | --- | --- |
| Project Manager | Ahmad Badaha | Oversee execution, approve test plan, ensure resources & timelines |
| Scrum Master | Haya Abu Hajeer | Facilitate ceremonies, remove blockers, support improvements |
| QA Team | Haya Abu Hajeer  Aya Shanteer  Aya Abu Ali  Ahmad Badaha | Design/execute test cases, run functional & performance tests, log defects, ensure traceability, provide reports |

# 7. Suspension Criteria and Resumption Requirements

- Mobile: Suspend if Gaza internet outage prevents LinkedIn app testing.  
- API: Suspend if JSONPlaceholder service is unavailable or rate-limited.  
- Resumption: Resume once connectivity/services are restored and stable.

# 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, logging, defect tracking.  
- API: JMeter execution, metrics collection.  
  
After Testing:  
- Test summary report (pass/fail).  
- Performance report (graphs for response time, throughput, error rates).

# 9. Test Environment

- OS: Android  
- Devices: Smartphones (real & emulator/simulator)  
- Tools: Appium, Eclipse, JMeter