Contact List App - Master Test Plan

Contact List App (Web Application)

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1. Introduction

This document plans the strategy, objectives, resources, and schedule for functional, security, and performance testing for the Contact List App Website from Contacts and Users to check that the system works as expected.

1.1. Objective

To validate the CRUD functionality and authentication mechanisms of the Contact List App APIs (Contacts and Users) through structured API testing aligned with Scrum methodology. The goal is to ensure each endpoint behaves correctly with valid and invalid inputs, handles errors gracefully, maintains data integrity, and adheres to basic security standards.

1.2. Background

The Contact List App provides RESTful APIs for managing user contact records. This project is conducted over a 5-day sprint simulation with two teams:
- Team 1: Responsible for testing Contacts APIs
- Team 2: Responsible for testing Users APIs

Testing will be performed using Postman, documented in Excel, and tracked via Trello.

2. Scope

2.1. In-Scope:

2.1.1. Contacts: (Contact List Documentation 'Contacts' 1)
2.1.1.1. POST / Add Contact (CLD – 1.1)
2.1.1.2. GET / Get Contact List (CLD – 1.2)
2.1.1.3. GET / Get Contact (CLD – 1.3)
2.1.1.4. PUT / Update Contact (CLD – 1.4)
2.1.1.5. PATCH / Update Contact (CLD – 1.5)
2.1.1.6. DELETE / Delete Contact (CLD – 1.6)

2.1.2. Users: (Contact List Documentation 'Users' 2)
2.1.2.1. POST / Add User (CLD – 2.1)
2.1.2.2. GET / Get User Profile (CLD – 2.2)
2.1.2.3. PATCH / Update User (CLD – 2.3)
2.1.2.4. POST / Log Out User (CLD – 2.4)
2.1.2.5. POST / Log In User (CLD – 2.5)
2.1.2.6. DELETE / Delete User (CLD – 2.6)

2.2. Out-of-Scope:
2.2.1. Third party integrations
2.2.2. Performance, Load testing, Stress testing.
2.2.3. Testing on Mobiles.
2.2.4. UI/UX & Non-functional features.

3. Test Methodology

3.1. Functional Testing
3.2. Security Testing
3.3. Performance Testing
3.4. Automated Assertions

4. Approach

Modules	Test Type	Test Cases Coverage
Contacts	Functional / Security / Performance	TC - 001 to TC - 116
Users	Functional / Security / Performance	TC - 117 to TC - 172

5. Risks

Risk	Impact	Trigger	Mitigation/ Contingency Plan
API specification changes	Incorrect test cases	1 Day delay	Daily sync with latest documentation
Token/session expiration issues	Failed requests	1 Day delay	Use pre-request scripts or refresh manually
Environment conflicts	Test failures	1 Day delay	Use shared environment files; review variables daily
Duplicate test coverage	Wasted effort	1 Day delay	Peer review on Day 2 to coordinate test ownership

6. Roles & Responsibilities

Role	Responsibility
QA Lead	Manage plan, review test cases
QA Engineer	Write test cases, execute tests, report bugs
Developers	Fix bugs
Scrum Master	Facilitate standups, resolve blockers, keep schedule on track
Product Owner	Oversee QA progress, approve deliverables

7. Schedules

7.1. Schedule by Phase

Phase	Duration	Start Date - End Date
Sprint Planning & Analysis	1 Day	21/07/2025 - 22/07/2025
Test Case Design	1 Day	22/07/2025 - 23/07/2025
Postman Setup	1 Day	23/07/2025 - 24/07/2025
Assertions & Execution	1 Day	24/07/2025 - 25/07/2025
Sprint Review & Demo	1 Day	25/07/2025 - 25/07/2025

7.2. Schedule by Feature

Feature	Duration	Start Date - End Date
2.1.1. Contacts		
2.1.1.1. POST / Add Contact	2 Days	22/07/2025 - 25/07/2025
2.1.1.2. GET / Get Contact List		
2.1.1.3. GET / Get Contact		
2.1.1.4. PUT / Update Contact		
2.1.1.5. PATCH / Update Contact		
2.1.1.6. DELETE / Delete Contact		
2.1.2. Users		
2.1.2.1. POST / Add User	2 Days	22/07/2025 - 25/07/2025
2.1.2.2. GET / Get User Profile		
2.1.2.3. PATCH / Update User		
2.1.2.4. POST / Log Out User		
2.1.2.5. POST / Log In User		
2.1.2.6. DELETE / Delete User		

8. Defect Tracking

8.1. Tool: Trello & PDF Bug Report

8.2. Severity Levels:

8.2.1. Critical: Endpoint failure

8.2.2. Major: Incorrect response

8.2.3. Minor**:** Validation issues, typos in error messages, improper headers

9. Test Environment

9.1. API Base URL: Contact List Documentation

9.2. Tools: Postman (Version 11.54.6), Excel, Trello

9.3. Browsers: Chrome (Version 137.0.7151.120 (Official Build) (64-bit) / Firefox / Edge

9.4. Operation System: Windows 10/11

9.5. Accounts: Generated using POST API

9.6. Network: HTTP/HTTPS

9.7. Devices: PCs

10. Entry & Exit Criteria

10.1. Entry Criteria:

10.1.1. API documentation reviewed and understood

10.1.2. Postman workspace and Trello board created

10.1.3. Environment variables configured

10.1.4. Team roles assigned and kickoff complete

10.2. Exit Criteria:

10.2.1. All test cases executed and passed

10.2.2. All critical/major defects resolved or documented

10.2.3. Postman collection fully functional with assertions

10.2.4. Presentation delivered with all team deliverables

11. Deliverables

Deliverable	For	Date - Milestone
Trello Board (Tasks)	Product Owner, Dev Team, QA Team, Scrum Master	21/07/2025 – Sprint Kickoff
Test Plan	QA Lead, Test Manager, Product Owner, Dev Lead	21/07/2025 - Test Readiness
API–UI Mapping Document	QA Lead, Test Manager, Product Owner, Dev Lead	22/07/2025 - Test Design
Excel Test Case Document	QA Engineers, Dev Lead, Product Owner	22/07/2025 - Test Design
Postman Collection and Environment Variables	QA Engineers, Dev Lead, Product Owner	23/07/2025 - Test Execution
Assertions and Bug Logs	QA Lead, Dev Lead, Product Owner	24/07/2025 - Defect Triage Completion
Bug Report	QA Engineers, Dev Lead, Product Owner	24/07/2025 - Defect Triage Completion
RTM (Requirements Traceability Matrix)	QA Lead, Dev Lead, Product Owner	24/07/2025 - Requirement Sign-Off
Test Summary Report	QA Lead, Dev Lead, Product Owner, Stakeholders	24/07/2025 - Test Closure & Go-No-Go Decision
Final Presentation Slides	QA Lead, Dev Lead, Product Owner, Stakeholders	25/07/2025 - 20 minutes presentation for all the deliverables

12. References

12.1. Contact List App 'UI exploration' ([Contact List App](#))
12.2. API Documentation ([Contact List Documentation](#))

13. Approval

Role	Name	Signature
QA Lead	Ahmed Abdallatif	Ahmed
Scrum Master	Aya Abu Ali	Aya
Project Manager	Mamoun Suboh	Mamoun