**Test Plan**

**For**

**[Contact List App]**

**Document Version: 1.0**

**Date: 19/07/2025**

## **Approvals**

| **Role** | **Name** | **Signature** | **Date** | **Tasks** |
| --- | --- | --- | --- | --- |
| QA Member | Yousef Sabet |  | 19/7/2025 | work on Users APIs,  work on Test plan,  work on Test cases |
| QA Member | Zaid Jaber | ZAID | 19/7/2025 | Work on Contacts API’s Work Test Cases |
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| QA Member | Hana Farhoud | HANA | 19/7/2025 | Work on Contacts API’s Work Test Cases |

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## **Contact list Platform**

## Version History

| V. No. | Details of Change | Changed Sections | Prepared by | Date |
| --- | --- | --- | --- | --- |
| 1.0 | Initial Test Plan Creation | API section | QA Team | 23/06/2025 |

## **1. Introduction**

### **1.1 Purpose**

This test plan is for the Contact List App. It helps us check if the API works correctly and responds as expected. The testing will focus on the Contacts APIs, where users can create, update, view, and delete contact details like name, email, and phone number.

We will design positive and negative test cases to cover different possible scenarios, and make sure the API returns correct responses in each case. The goal is to find any issues or bugs before the API is used in real applications.

### **1.2 Scope**

#### **1.2.1 In Scope**

**List App APIs** work correctly. It focuses on testing the **Contacts APIs**, which allow users to add, edit, delete, and view contacts. The goal is to make sure that all API endpoints respond correctly, required fields are working, and error messages appear when needed.

#### **1.2.2 Out of Scope**

This test does not include testing the UI of the Contact List App, database performance, security testing, or integration with other systems. The focus will only be on the **Contacts APIs**.

### 

### **1.3 Background**

The **Contact List App** is a web-based system that allows users to manage a list of contacts, including names, phone numbers, and email addresses. The system provides APIs to handle all operations related to managing contacts. These APIs are used by the frontend application to help users easily add and manage their contact information.

## **2. Test Strategy**

### **2.1 Test Level Selection**

Applicable Test Levels:

* System Integration Test (SIT)
* End-to-End Test (E2E)
* User Acceptance Test

### **2.2 Test Level Characteristics**

Each test level will follow a planned and organized process.

* Testing will start after the environment setup and requirement analysis are completed.
* Testing will finish when all major bugs are fixed, and all test cases pass successfully.
* Results will be reviewed before project closure.

### **2.3 Test Scope**

In Scope:

| **Module name** | **Applicable role** | **Description** |
| --- | --- | --- |
| Contacts API | User /System | Users can add, update, view, and delete contact details (Name, Phone, Email). APIs should work correctly for all CRUD operations |
| Authentication API (Login/Logout) | User /System | Users should be able to log in and log out using the API to access their contact data securely. |
| Validation Rules | User/System | APIs must return correct error messages when required fields are missing or invalid data is sent |
| Response Codes | User /System | APIs must return correct HTTP response codes (200, 201, 400, 401, 404, 500) for each request |
| Error Handling | User/System | Ensure APIs handle incorrect inputs gracefully with proper error responses |

Out of Scope:

| **Module name** | **Applicable role** |
| --- | --- |
| UI Testing | User |
| Database Performance | System |
| API Security Testing | System |
| Integration with External Tools | System |

### **2.4 References**

* API Documentation (Contact List App)
* Requirement Traceability Matrix (RTM)
* Scrum Sprint Guidelines

### **2.5 Testing Tools**

* Test Execution: Postman (with environment variables and assertions)
* Test Management: Trello
* Reporting: Excel Sheets for test cases and bug reports

## **3. Test Deliverables**

* Test Plan
* RTM
* Test Cases Document
* Bug report
* Test Summary Report
* Document API is triggered from UI

## **4. Milestones**

| **Milestone** | **Description** | **Planned Date** |
| --- | --- | --- |
| Requirements Analysis | Reading API documentation and understanding the endpoints and user needs | 19/7/2025 |
| Test Plan | Final version of test plan is approved | 19/7/2025 |
| Test Case Design | All positive and negative test cases are written in Excel sheet | 20/7/2025 - 21/7/2025 |
| Test Execution | Running all API requests using Postman and checking results | 21/7/2025 - 22/7/2025 |
| Test Summary | Writing test summary report | 23/7/2025 |

## **5. Roles and Responsibilities**

* **QA Lead:** Prepares the test plan and deliverables. Defines testing strategies and ensures all processes are followed.
* **QA Team:** Analyzes API documentation, writes test scenarios and test cases, and executes them using Postman.
* **Dev Team:** Fixes bugs and errors found during testing.
* **Business Users:** Conduct User Acceptance Testing (UAT) and give feedback on API readiness.

## **6. Test Environment and Resources**

Testing will be performed in a simulated environment similar to production. The environment will include:

* Operating System: Windows 11, MacOS
* Browsers: Chrome
* API Tool: Postman
* Test Data: Based on sample contacts (realistic names, emails, and phone numbers)

## **7. Entry Criteria**

* Testing environment is ready.
* API documentation is approved and shared.
* Test cases are prepared and reviewed.

## **8. Exit Criteria**

* All critical and high-priority bugs are fixed.
* All planned test cases have passed successfully.
* API collection runs without failures.

## **9. Test Assumptions and Risks**

## **9.1 Test Assumptions**

This section lists assumptions that are specified to the test planning .

| **#** | **Assumption** |
| --- | --- |
| 1 | Stable test environment |
| 2 | Timely availability of test data |
| 3 | QA team and business users will be available for testing and review |

## **9.2 Risks and Mitigations**

| **Risk** | **Mitigation/Contingency plan** |
| --- | --- |
| Lack of team’s API testing skills | Conduct quick Postman and API training sessions |
| Incomplete test coverage | Focus on core/critical APIs first |
| Delay in API development | Escalate early and request extension if needed |

## **10. Test Reporting**

* Reports will include test execution status, defect list with severity levels, and closure details.
* Weekly reports will include metrics such as:  
  + Total number of tests executed
  + Pass/Fail rate
  + Number of open defects

# **11. Sign-Off**

* **QA Lead:** Mamoun Suboh
* **Product Owner:** (To be Assigned)
* **Dev Team Representative:** (To be Assigned)