**Contact List App - API Testing Project**

Test Plan

**Test plan for Contact Test App**

**TP-PN01**

**Document Version: 1**

**Date: 19 July 2025**

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# **1. Introduction**

This document outlines the testing strategy for the **Contact List App** API project. It includes the test objectives, scope, team roles, deliverables, and testing approach to ensure that the APIs work as intended per the specifications, with reliable functionality, authorization, and performance.

# **2. Scope**

## **2.1 In Scope**

Testing of the following **RESTful APIs** (via Postman):

**Contacts APIs:**

* POST Add Contact
* GET Get Contacts List
* GET Get Contact by ID
* PUT Update Contact (Full)
* PATCH Update Contact (Partial)
* DELETE Delete Contact

**Users APIs:**

* POST Add User
* GET Get User Profile
* PATCH Update User
* POST Log Out User
* POST Log In User
* DELETE Delete User

## 

## **2.2 Out of Scope**

**Everything else not mentioned in the SRS document is out of scope**, for example:

* Detailed **UI/UX testing** (e.g., UI design, responsiveness, A/B testing)

# **3. Test Schedule**

|  |  |  |
| --- | --- | --- |
| **Feature** | **Duration** | **Assigned to** |
| Add Contact [Contacts] | 1 Days | Ehab |
| Get Contact List [Contacts] | 1 Days | Ehab |
| Get Contact Data [Contacts] | 1 Days | Badawi |
| Completely Update a Contact [Contacts] | 1 Days | Badawi |
| Partially Update a Contact [Contacts] | 1 Days | Mohammad |
| Delete a Contact [Contacts] | 1 Days | Mohammad |
| Add User [Users] | 1 Days | Nagham |
| Get User Profile [Users] | 1 Days | Nagham |
| Partially Update User Data [Users] | 1 Days | Nagham |
| Log Out User [Users] | 1 Days | Hala |
| Log in User [Users] | 1 Days | Hala |
| Delete User [Users] | 1 Days | Hala |

# **4. Test Approach**

The testing will follow the **Agile Scrum** approach with:

* **Sprint Planning (Day 1)**
* **Daily Standups (10 min)**
* **Sprint Review (Day 5)**

#### **Test Types:**

* **Functional Testing (Positive and Negative Cases).**
* **Authentication/Authorization Validation.**
* **Status Code validation.**
* **Data Validation (using environment variables).**
* **Non-Functional Testing(performance).**
* **UI Mapping to API Behavior.**

Tools used:

* **Postman** (Test scripts, environment, collection runner)
* **Trello** (Task management)
* **Excel** (Test case design)

# **5. Suspension criteria and resumption requirements**

Suspension in the software testing process in which the testing team will suspend the testing activities based on some criteria.

**Testing activities may be suspended if:**

* API server is down
* Authentication tokens are not provided
* Major blocker bugs prevent testing flow
* Incomplete or missing API documentation

**Testing will resume when:**

* The blocker is resolved
* Test environment is restored
* Necessary data/documents are provided

# **6. Milestones / Deliverables**

## **6.1 Before Testing**

* Trello Board with all tasks/cards
* API Test Plan
* Test Case Excel Sheets

## **6.2 During Testing**

* Postman Collection with Folders
* Test Scripts and Assertions
* Bug Reports / Postman Console Logs
* Test Data (Env Variables)
* RTM (Requirement Traceability Matrix)

## **6.3 After Testing**

* Finalized Postman Collection
* Test Summary Report
* Sprint Demo / Project Presentation

### **7. Test Support Activities**

Although UI testing was not a formal requirement of this API-focused project, **basic UI exploration was performed** to help map and understand which API calls are triggered by specific front-end actions. This mapping supported more accurate and targeted API testing.

The following UI actions were explored solely for this purpose:

* Register
* Login
* View Contacts
* Edit/Delete Contacts
* Update Contacts
* Add New Contact

# **8. Responsibilities**

|  |  |  |
| --- | --- | --- |
| **Role** | **Staff member** | **Responsibilities** |
| **Project Manager** | **Mamoum** | 1. Acts as a primary contact for the development and QA team. 2. Responsible for the Project schedule and the overall success of the project. |
| **QA Lead** | **Nagham** | 1. Participation in the project plan creation/update process. 2. Planning and organization of the test process for the release. 3. Coordinate with QA analysts/engineers on any issues/problems encountered during testing. 4. Report progress on work assignments to the PM |
| **QA Team** | **Hala,**  **Nagham,**  **Mohammed,**  **Ehab,**  **Badawi** | 1. Understand requirements 2. Writing and executing Test cases 3. Preparing RTM 4. Reviewing Test cases, RTM 5. Defect reporting and tracking 6. Retesting and regression testing 7. Bug Review meeting 8. Preparation of Test Data 9. Coordinate with QA Lead for any issues or problems encountered during test preparation/execution/defect handling |

# **9.** **Test Environment**

| **Component** | **Specification** |
| --- | --- |
| OS | Windows 10, Windows 11 |
| Browsers | Chrome, Brave, Microsoft Edge |
| API Platform | Postman |
| Task Board | Trello |
| Documentation | Excel, Word |