

Contact List App - API Testing Project

Test Plan

Test plan for Contact Test App

TP-PN01

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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	<ol style="list-style-type: none">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	<ol style="list-style-type: none">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	<ol style="list-style-type: none">1. Understand requirements2. Writing and executing Test cases3. Preparing RTM4. Reviewing Test cases, RTM5. Defect reporting and tracking6. Retesting and regression testing7. Bug Review meeting8. Preparation of Test Data9. 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