

Project Workflow Overview

Testing & QA Lifecycle

A full overview of how the QA team gathers requirements, performs static testing, writes test cases, executes tests, reports bugs, and builds automation.



Agenda

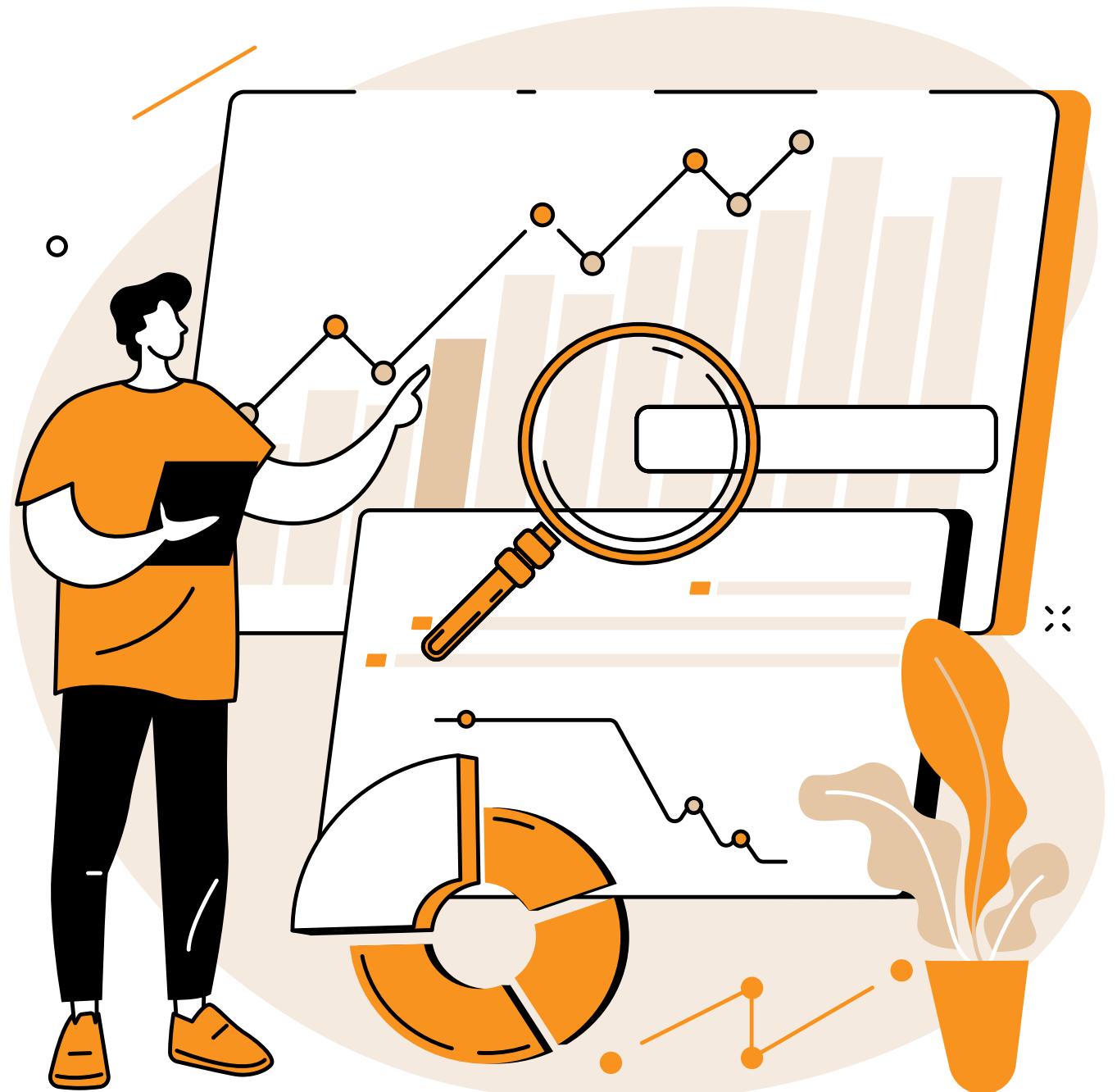
- Introduction
- Why ?
- Requirements gathering
- Test Planning
- Testing Analysis
- Testing Design
- Test Execution
- Test Reporting



Introduction

Testing Approach

- Testing is a core phase in SDLC
- Testing started early from requirement analysis to reduce risks.
- structured Software Testing Life Cycle (STLC).
- Focused on understanding real business logic.



Coverage

Avoided

- Ad-hoc testing
- Random retesting
- Expected vs actual mismatch
- Assumption-based testing

Covered

- Core business workflows
- Happy, negative & edge case
- Role-based access control
- Data validation & integrity
- Requirements traceability
- Manual testing (UI/UX)
- Automation (regression & smoke)



is a good demo website for testing

- Real HR management system(looks and behaves like a real company system)
It supports the business by organizing people and processes

It includes modules like

- Admin
- PIM (Employee management)
- Leave
- Time
- Recruitment

This helps you practice on a system that is close to what you'll see in real jobs.

- Multiple user roles
 - Admin
 - ESS (Employee Self-Service)
- Covers many testing types
- Supports automation well

01-Sep-2025 → 15-Sep-2025

1. Requirements Gathering

Requirements Analysis & Static Testing

Gathering Requirements

Teams collect Epics, User Stories, and Acceptance Criteria individually.

Getting APIs documentation

Searching for APIs Documentation so we can do testing



Deliverables from Requirements Phase



- 01 Epics, User Stories and Acceptance criteria
- 02 APIs Documentations

15-Sep-2025 → 25-Sep-2025

2. Test Planning

Key Activities:

- Defined scope (UI + API)
- Prepared Test Plan v1
- Test Plan
- Set up test tools (Postman, Selenium, Jira, GitHub)
- Defined responsibilities
- Final approval of Test Plan

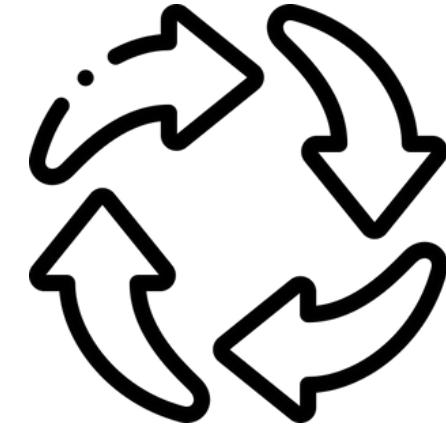


Deliverables from Planning Phase



- 01 Test Plan
- 02 Automation Test Plan
- 03 Ganette chart

Static Testing



How We Performed Static Testing:

- Management rotated requirements among team members
- Each member reviewed requirements they didn't write
- Focused heavily on Acceptance Criteria (ACs) for system behavior
- Identified missing flows, unclear AC, conflicts, or ambiguous cases

Outcome:

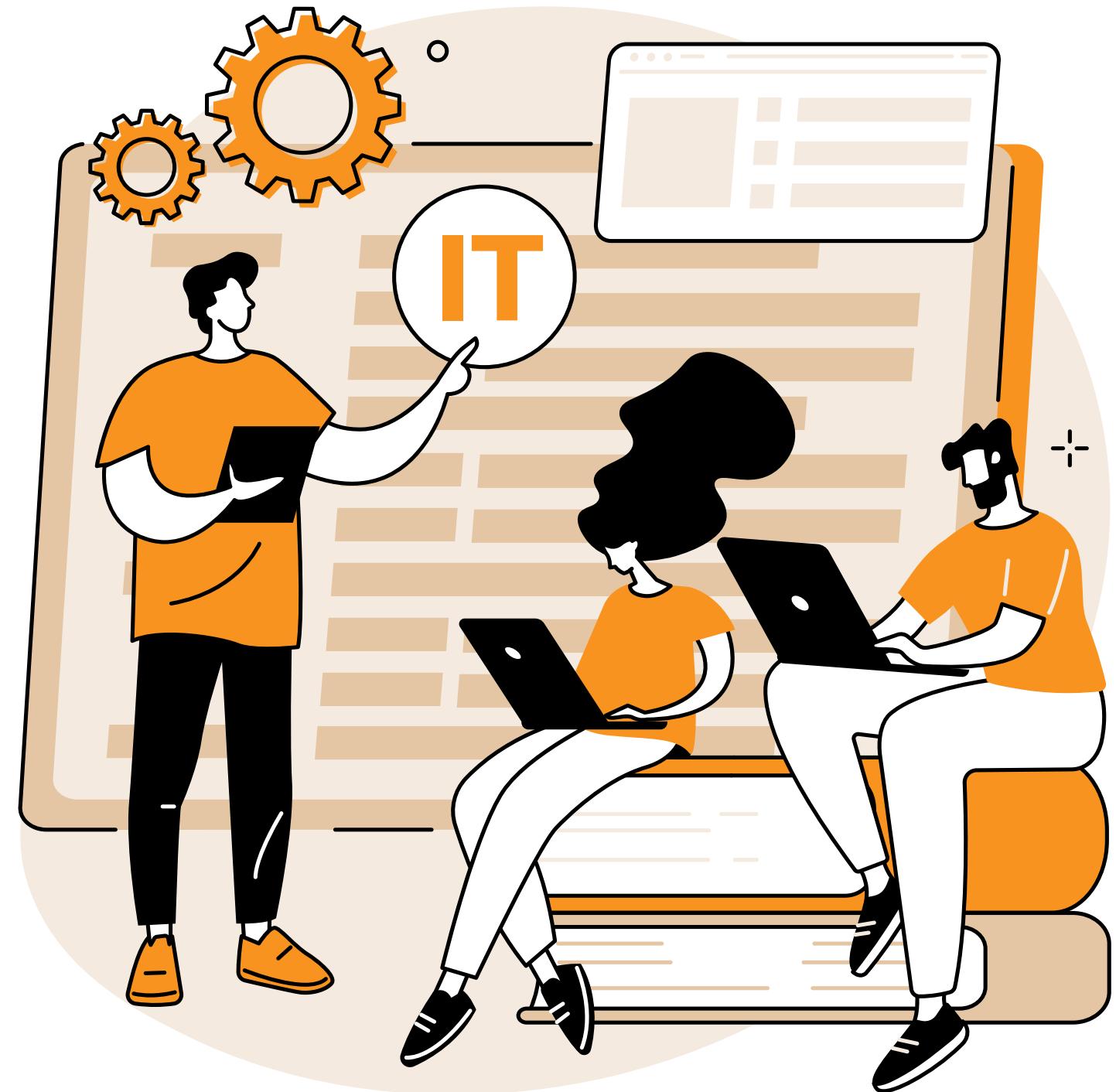
Updated and validated requirements before test case design.

Phase 2: 26-Sep → 24-Oct

3. Testing Analysis

Tasks Completed:

- Design and analysis UI test cases for Login, Admin, PIM, Leave, Recruitment, etc.
- Prepared system test cases
- Mapped all test cases to Acceptance Criteria



Deliverables from Testing Analysis



- 01 Test scenarios
- 02 Test conditions

Phase 2: 26-Sep → 24-Oct

3. Testing Design

Tasks Completed:

- Design and analysis UI test cases for Login, Admin, PIM, Leave, Recruitment, etc.
- Prepared system test cases
- Mapped all test cases to Acceptance Criteria



Deliverables from Testing Design



- 01 Test Cases
- 02 Automation Test cases
- 03 API Test cases

Test Execution & Exploring the system

Execution Steps:

- Ran all manual UI test cases
- Documented bugs
- Took screenshots
- Updated Excel sheets & Jira tasks
- Exploring the system for UI/UX and Usability Testing

Focus:

Since system had few functional bugs → we emphasized UI/UX and usability issues.



Bug Reporting

Execution Steps:

- Included steps to reproduce, severity, screenshots
- Linked each defect to its test case
- Prioritized bugs (Critical/High/Medium/Low)
- Four types of bugs (functional, UI/UX, Usability and exploratory)



Deliverables from Test Execution Phase



01 **UI/UX Usability and functional bug report**

Phase 5: 1-Dec → 5-Dec

Test Reporting

Deliverables:

- Manual Clouser Report
- Final presentation

Project Workflow Overview

API Testing



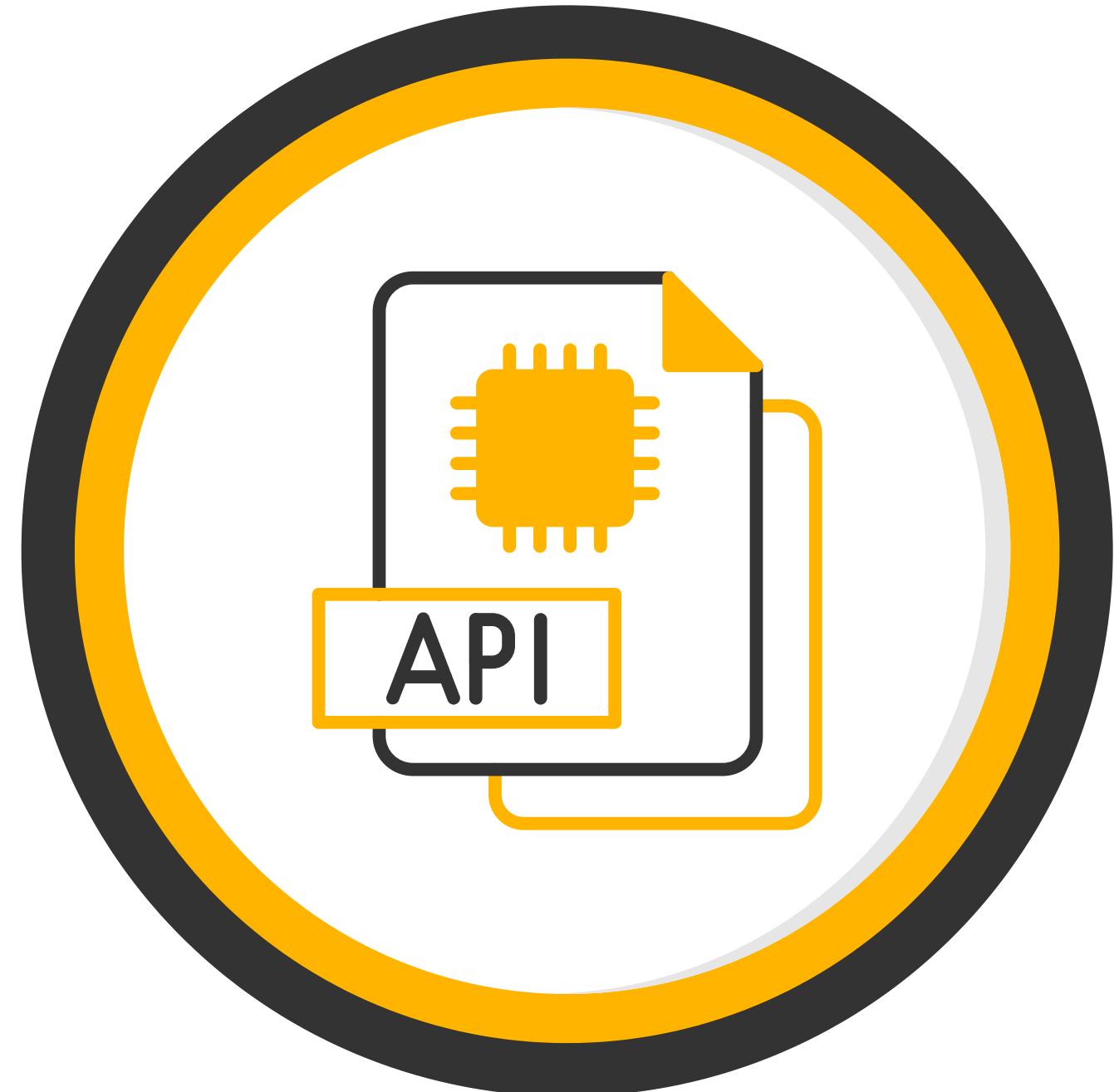
API Manual Testing

Tools Used:

Excel, Postman

Performed:

- Manual API testing (GET/POST/PUT/DELETE)
- Validating response payload, structure, status codes
- Positive & negative API scenarios
- Authentication testing
- Error handling testing



API Automation

Implemented during Test Execution & Automation Phase

We Built:

- Postman collections
- Automated workflows
- Newman CLI integration

Outcome:

Fast API regression cycles anytime needed.



Deliverables from API Testing Phase



01 API Test Cases

Project Workflow Overview

Automation Testing

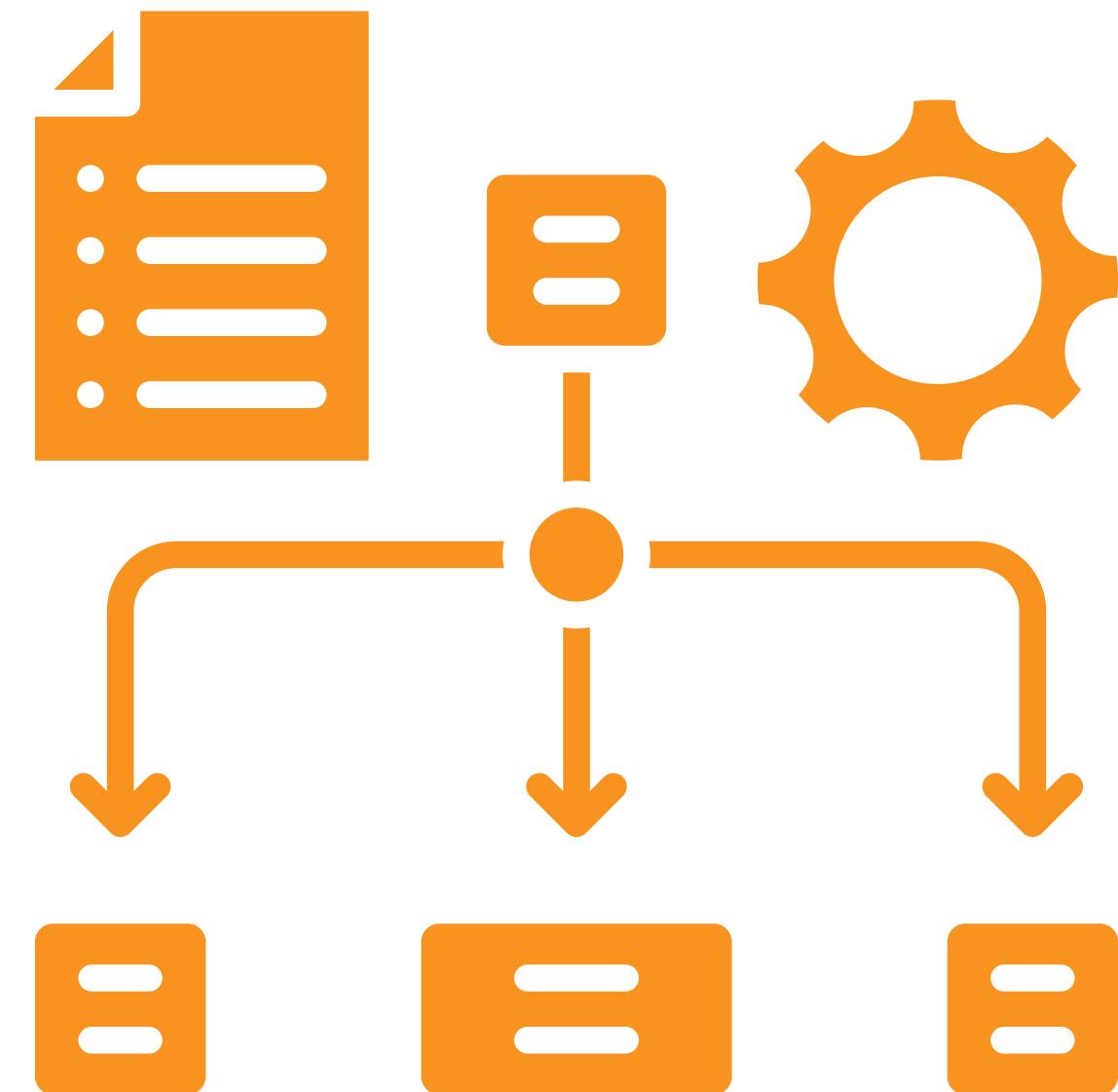


Phase 4: Test Automation (1-Nov → 30-Nov)

Automation Planning

Planning Steps:

- Selected test cases with highest ROI for automation
- Defined framework structure (Selenium + TestNG)
- Prepared GitHub repository
- Created automation roadmap



Test Automation Strategy

Tools Used:

Selenium, Java, TestNG, Postman

We created:

- UI automated scripts for critical scenarios
- Page Object Model (POM) structure
- Reusable libraries
- API automated scripts in Postman

Deliverables from Automation Phase



- 01 **Automation framework**
- 02 **Automated test scripts**
- 03 **Smoke suite**
- 04 **Regression suite**
- 05 **Execution reports**
- 06 **Defect reports**

Thank You!

For more information
about the QA
Workflow, feel free to
reach out.

