

## 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

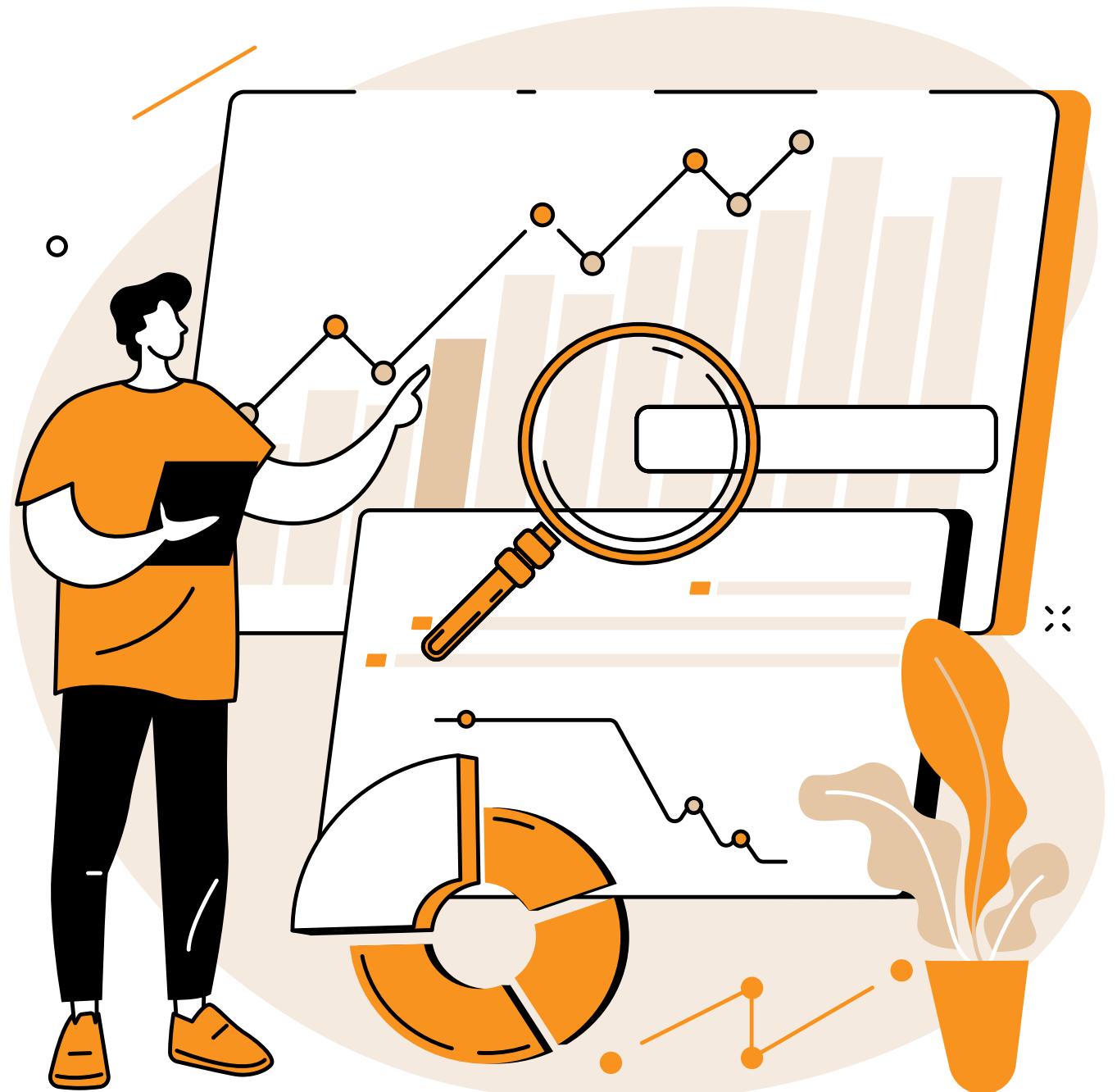
- Requirements Gathering & Static Testing
  - Test Planning
  - Test Case Analysis & Design
  - Test Execution & Bug Reporting
  - API Testing
  - Automation Planning & Scripting
  - Final Reporting
  - Project Timeline
  - Team Roles



# Introduction

## Overview of the QA Process

This presentation explains the complete QA Life Cycle, starting from gathering requirements (Epics, User Stories, and Acceptance Criteria) to static testing, writing test cases, executing test cycles, API testing, and building automation.





## 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
- Performance

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

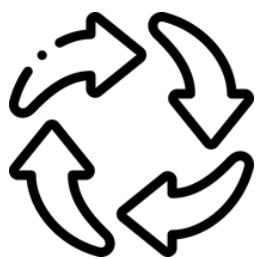
01-Sep-2025 → 15-Sep-2025

# 1. Requirements Gathering

## Requirements Analysis & Static Testing

### Gathering Requirements

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



### Static Testing

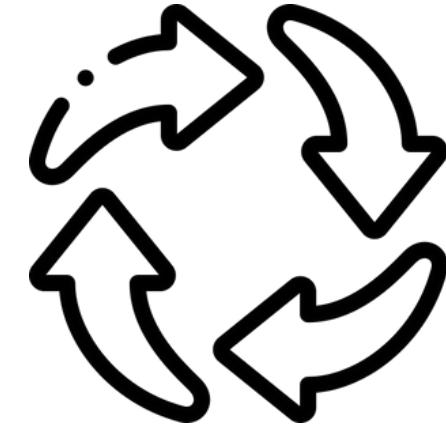
Management rotates tasks so each team member analyzes requirements they haven't seen before.

### Getting APIs documentation

Searching for APIs Documentation so we can do testing



# 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.**

# Deliverables from Requirements Phase



- 01 Epics, User Stories and Acceptance criteria
- 02 Static testing for requirements
- 03 APIs Documentations

15-Sep-2025 → 25-Sep-2025

## 2. Test Planning

### Key Activities:

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



# Deliverables from Planning Phase



- 01 Test Plan
- 02 Manual Test Plan
- 03 Define Roles for each individual

Phase 2: 26-Sep → 24-Oct

# 3. Test Case Analysis & 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



# Test Case Strategy

We wrote test cases covering:

- Functional flows
- Field validation
- Permission & role-based access
- Positive & negative scenarios



# Deliverables from Test Cases Phase



## 01 Functional 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:

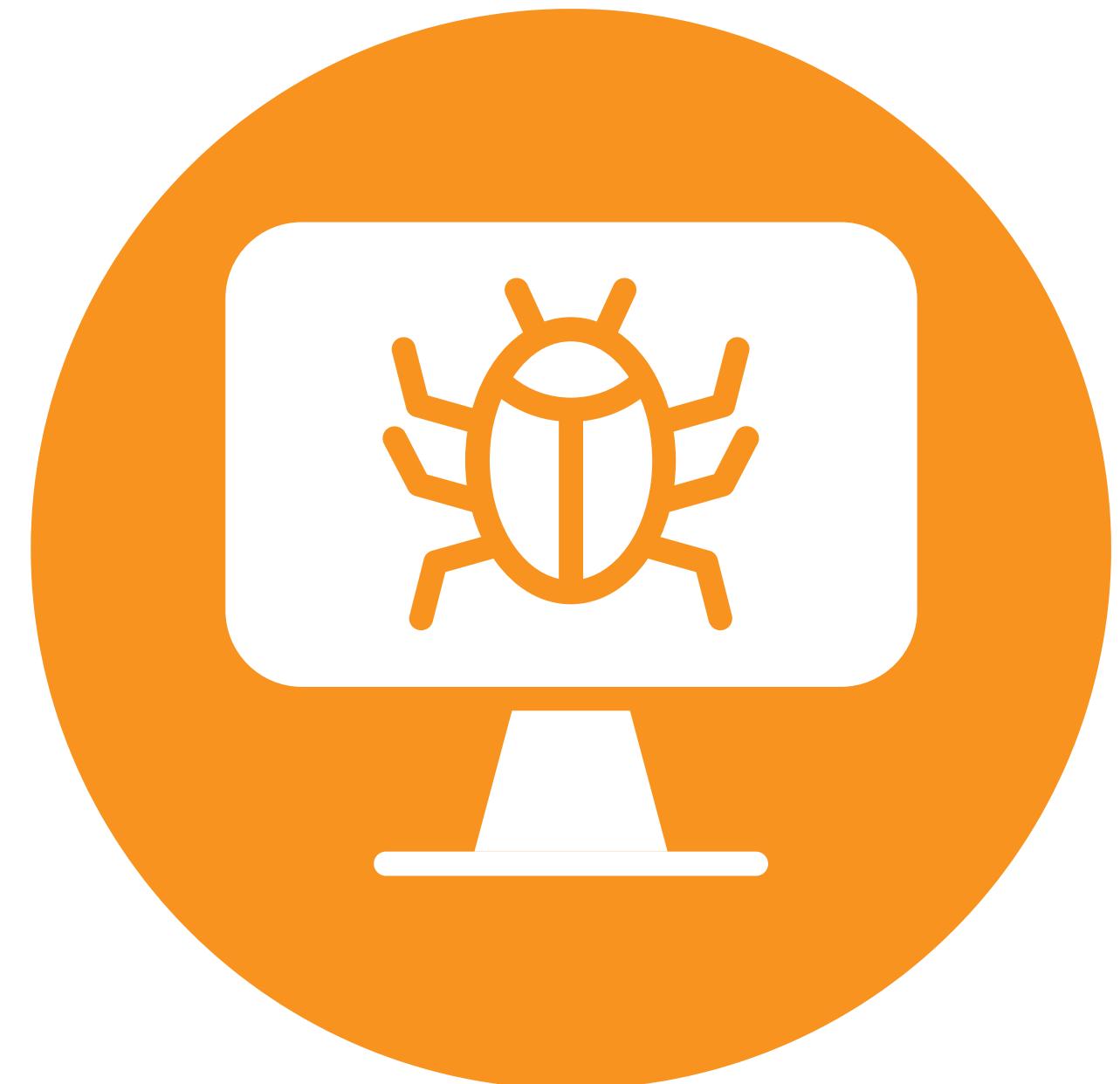
Since system had few functional bugs → we emphasized UI/UX and usability issues.



# Bug Reporting

## Execution Steps:

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



# Deliverables from Test Execution Phase



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

# Thank You!

For more information  
about the QA

Workflow, feel free to  
reach out.



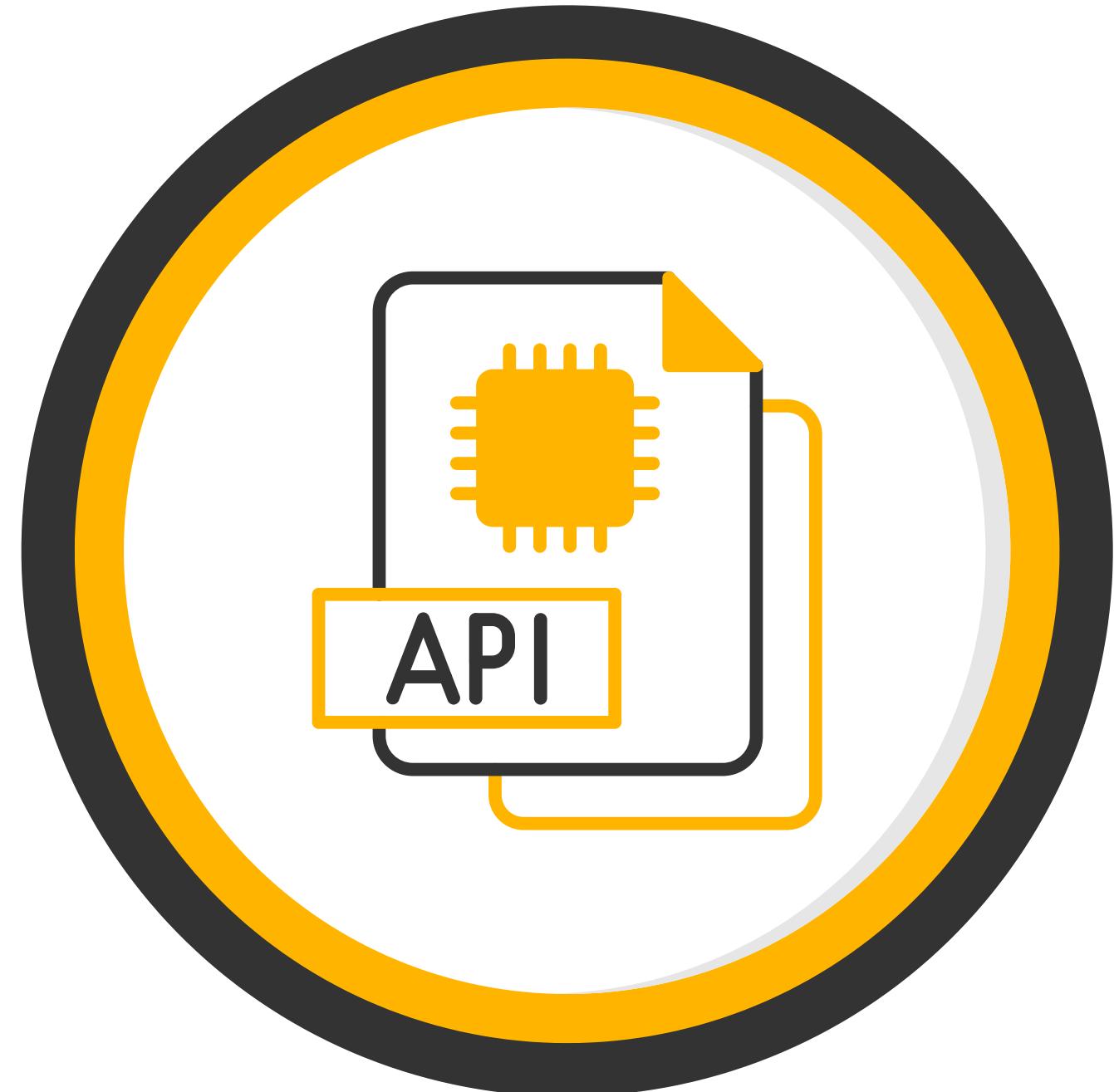
# API Testing

## 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



# Deliverables from API Testing Phase



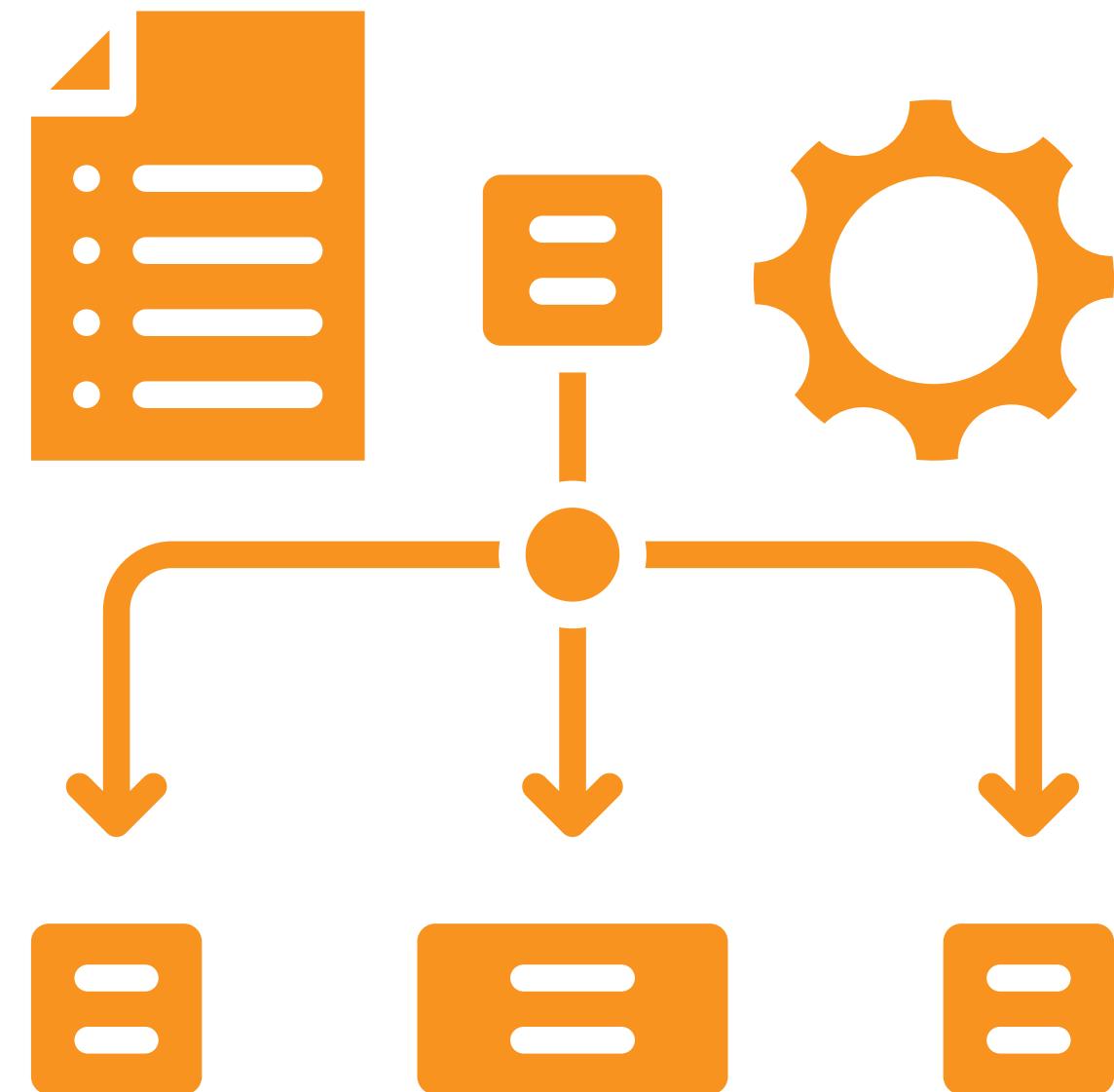
## 01 API Test Cases

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



# API Automation

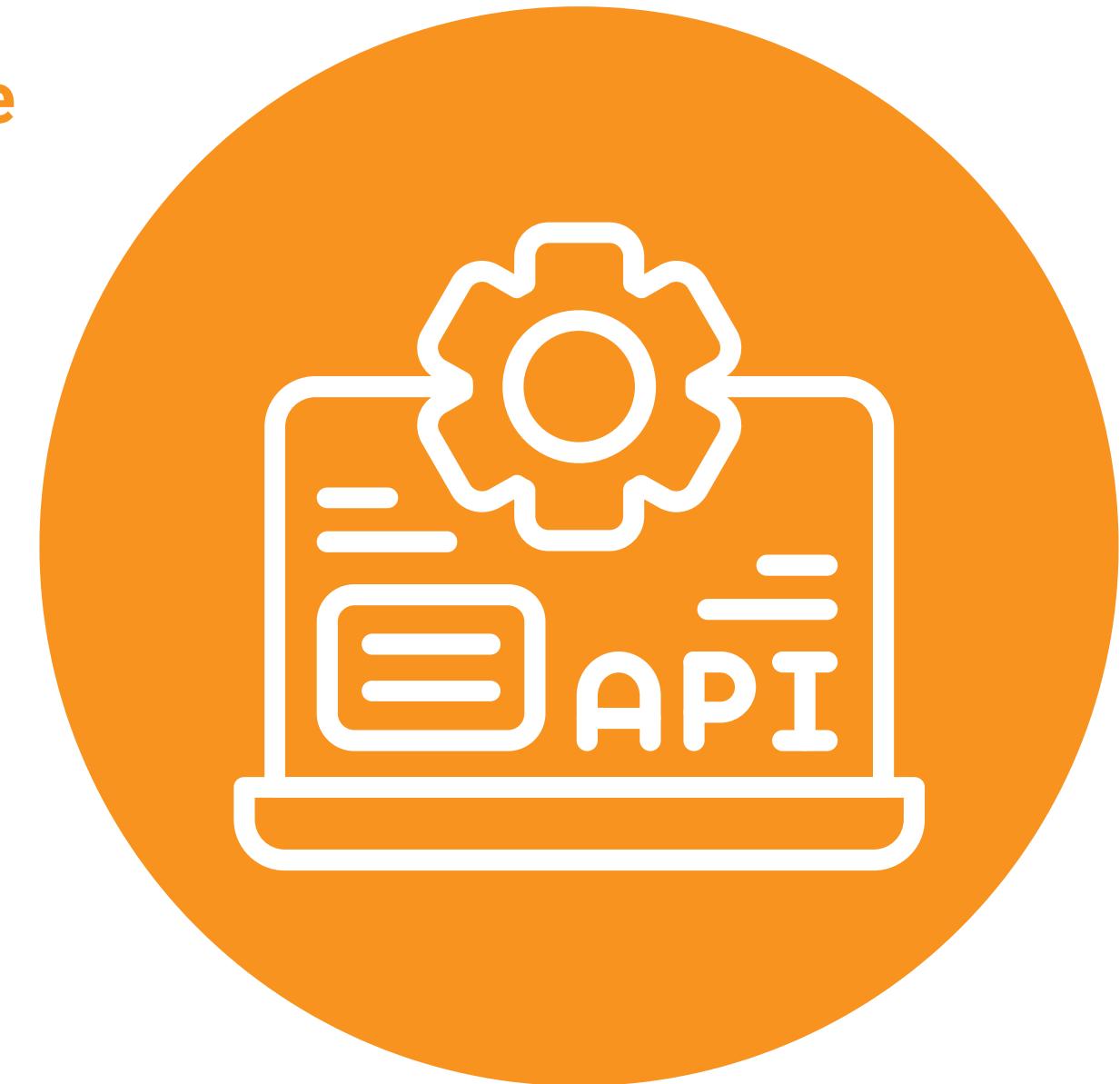
Implemented during Test Execution & Automation Phase

## We Built:

- Postman collections
- Pre-request scripts
- Automated workflows
- Newman CLI integration

## Outcome:

Fast API regression cycles anytime needed.



# Automation Script Writing

## 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
- Automation execution reports

# Deliverables from Automation Phase



- 01 **Automation Scripts**
- 02 **Code For The Most Critical Scenarios**
- 03 **APIS Collection**

Phase 5: 1-Dec → 5-Dec

# Test Reporting

## Deliverables:

- Clouser Report
- Bug summary
- Requirement coverage report
- Automation execution report
- Final presentation

# Deliverables from Test Report Phase



- 01 Closure reports
- 02 Prestantions

# Project Timeline (Full Overview)

**Phase 0 – Requirements Gathering**

**01-Sep → 15-Sep**

**Phase 1 – Test Planning**

**15-Sep → 25-Sep**

**Phase 2 – Test Case Design**

**26-Sep → 24-Oct**

**Phase 3 – Test Execution**

**24-Oct → 30-Oct**

**Phase 4 – Automation**

**01-Nov → 30-Nov**

**Phase 5 – Reporting**

**01-Dec → 05-Dec**

# Thank You!

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