



## **Recruit Right: Precision Hiring with AI Insight**

### **Software Test Report**

Submitted by

Muhammad Naeemuddin 1955-2021

Muhammad Abdullah 2206-2021

Muhammad Raza 2207-2021

Supervisor

Dr. Umer Farooq

In partial fulfilment of the requirements for the degree of  
Bachelor of Science in Software Engineering  
2025

**Faculty of Engineering Sciences and Technology**

Hamdard Institute of Engineering and Technology

Hamdard University, Main Campus, Karachi, Pakistan

# Software Test Plan and Test Cases

**Project Title:** Recruit Right: Precision Hiring with AI Insight

**Date:** 3/July/2025

**Version:** 2.0

**Test Plan:**

The following table presents the detailed test plan, including the test schedule for each functional component of Recruit Right platform.

| S.No | Description                     | Tested by | Start date  | End Date    |
|------|---------------------------------|-----------|-------------|-------------|
| 1    | Login & Sign-Up                 | Naeem     | 01-Jul-2025 | 01-Jul-2025 |
| 2    | Job Application Flow            | Naeem     | 01-Jul-2025 | 01-Jul-2025 |
| 3    | Status-Change Notification      | Naeem     | 02-Jul-2025 | 02-Jul-2025 |
| 4    | Interview Scheduling            | Naeem     | 02-Jul-2025 | 02-Jul-2025 |
| 5    | Interview Reminder Notification | Naeem     | 03-Jul-2025 | 03-Jul-2025 |
| 6    | Interview “Start” Button        | Naeem     | 03-Jul-2025 | 03-Jul-2025 |
| 7    | Feedback Submission             | Naeem     | 03-Jul-2025 | 03-Jul-2025 |
| 8    | Security & Access Control       | Naeem     | 03-Jul-2025 | 03-Jul-2025 |
| 9    | Bulk Email Dispatch             | Naeem     | 03-Jul-2025 | 03-Jul-2025 |
| 10   | Logout & Session Termination    | Naeem     | 03-Jul-2025 | 03-Jul-2025 |

## Test Case 1 – Login & Sign-Up

**Project Name:** Recruit Right

**Module Name:** Login & Sign-Up

**Date:** 05-Jul-2025

**Test Case Id:** TC\_001

**Test Engineer:** Naeem

**Test Case Description:** Testing user login, registration, and session handling.

| S.No | Steps                  | Input Data            | Expected Result                           | Actual Result           | Pass/Fail |
|------|------------------------|-----------------------|---|-------------------------|-----------|
| 1    | Open Login Page        | –                     | Login page displays correctly             | Login page loaded       | Pass      |
| 2    | Enter email & password | Valid credentials     | Redirects to Candidate Dashboard          | Redirected successfully | Pass      |
| 3    | Open Sign-up Page      | –                     | Sign-up form displays                     | Sign-up form loaded     | Pass      |
| 4    | Register new user      | Name, email, password | Account created & redirected to dashboard | Account created         | Pass      |
| 5    | Logout user            | –                     | Session ends & returns to login page      | Logout successful       | Pass      |

## Test Case 2 – Job Application Flow

**Project Name:** Recruit Right

**Module Name:** Job Application Flow

**Date:** 05-Jul-2025

**Test Case Id:** TC\_002

**Test Engineer:** Naeem

**Test Case Description:** Verify candidates can view job listings and apply.

| S.No | Steps                 | Input Data           | Expected Result                              | Actual Result                   | Pass/Fail |
|------|-----------------------|----------------------|--|---------------------------------|-----------|
| 1    | Navigate to Jobs page | –                    | List of active jobs appears                  | 10 active jobs shown            | Pass      |
| 2    | Click job card        | Job ID 123           | Job detail page/modal opens                  | Job 123 details shown           | Pass      |
| 3    | Click “Apply”         | Resume, Cover Letter | Application stored with status = “pending”   | DB row inserted, status pending | Pass      |
| 4    | Open Applications tab | –                    | Newly applied job listed with pending status | Card shows “pending” badge      | Pass      |

## Test Case 3 – Status-Change Notification

**Project Name:** Recruit Right

**Module Name:** Status-Change Notification

**Date:** 05-Jul-2025

**Test Case Id:** TC\_003

**Test Engineer:** Naeem

**Test Case Description:** Confirm dashboard + email alerts on application status change.

| S.No | Steps                                  | Input Data        | Expected Result                  | Actual Result                        | Pass/Fail |
|------|--|-------------------|----------------------------------|--------------------------------------|-----------|
| 1    | Recruiter sets status → “short-listed” | Application ID 77 | Notification service triggered   | Webhook logged 200 OK                | Pass      |
| 2    | Candidate opens dashboard              | –                 | Banner/toast shows status update | Green toast “Short-listed” displayed | Pass      |
| 3    | Check candidate email                  | Candidate email   | Email with same message received | Mail received within 30 s            | Pass      |

## Test Case 4 – Interview Scheduling

**Project Name:** Recruit Right

**Module Name:** Interview Scheduling

**Date:** 05-Jul-2025

**Test Case Id:** TC\_004

**Test Engineer:** Naeem

**Test Case Description:** Ensure recruiter can schedule an interview and candidate sees it.

| S.No | Steps                           | Input Data                      | Expected Result                          | Actual Result              | Pass/Fail |
|------|---------------------------------|---------------------------------|--|----------------------------|-----------|
| 1    | Open “Schedule Interview” form  | Job ID 123, Candidate ID 45     | Form loads                               | Form rendered              | Pass      |
| 2    | Save date/time & medium         | 09-Jul-2025 10:00 AM, Zoom link | Session stored with status “scheduled”   | Session ID 88 created      | Pass      |
| 3    | Candidate → Upcoming Interviews | –                               | New interview card shows correct details | Card shows 09-Jul 10:00 AM | Pass      |

## Test Case 5 – Interview Reminder (30 min)

**Project Name:** Recruit Right

**Module Name:** Interview Reminder Notification

**Date:** 05-Jul-2025

**Test Case Id:** TC\_005

**Test Engineer:** Naeem

**Test Case Description:** Validate that reminder emails/alerts go out 24 h before interview.

| S.No | Steps                       | Input Data    | Expected Result                     | Actual Result           | Pass/Fail |
|------|-----------------------------|---------------|-------------------------------------|-------------------------|-----------|
| 1    | Simulate T-30 min scheduler | Session ID 88 | Reminder job triggers               | Reminder job ran        | Pass      |
| 2    | Check candidate email       | –             | “Interview tomorrow” email received | Email timestamp correct | Pass      |
| 3    | Check dashboard bell        | –             | Reminder badge/notification present | Bell shows 1 unread     | Pass      |

## Test Case 6 – “Start” Button Timing

**Project Name:** Recruit Right

**Module Name:** Interview “Start” Button

**Date:** 05-Jul-2025

**Test Case Id:** TC\_006

**Test Engineer:** Naeem

**Test Case Description:** “Start” button activates only at interview start time.

| S.No | Steps                       | Input Data | Expected Result                | Actual Result          | Pass/Fail |
|------|-----------------------------|------------|--------------------------------|------------------------|-----------|
| 1    | Open dashboard 30 min early | –          | “Start” button disabled/greyed | Greyed-out button      | Pass      |
| 2    | Reach exact start time      | –          | Button becomes active          | Turned blue, clickable | Pass      |
| 3    | Click “Start”               | –          | Redirects to Zoom meeting link | Redirected to Zoom     | Pass      |

## Test Case 7 – Recruiter Feedback Submission

**Project Name:** Recruit Right

**Module Name:** Feedback Submission

**Date:** 05-Jul-2025

**Test Case Id:** TC\_007

**Test Engineer:** Naeem

**Test Case Description:** Verify recruiter can submit feedback; candidate cannot view it.

| S.No | Steps                    | Input Data                     | Expected Result                                     | Actual Result                     | Pass/Fail |
|------|--------------------------|--------------------------------|---|-----------------------------------|-----------|
| 1    | Open feedback form       | Session ID 88                  | Form fields load                                    | Form ready                        | Pass      |
| 2    | Submit rating & notes    | Score 8, “Strong React skills” | Feedback saved to DB                                | Row added in Feedback table       | Pass      |
| 3    | Candidate refreshes apps | —                              | Status shows “Interview Completed”, feedback hidden | Feedback not visible to candidate | Pass      |

## Test Case 8 – Security & Access Control

**Project Name:** Recruit Right

**Module Name:** Security & Access Control

**Date:** 05-Jul-2025

**Test Case Id:** TC\_008

**Test Engineer:** Naeem

**Test Case Description:** Prevent cross-role and cross-organization data access.

| S.No | Steps  | Input Data      | Expected Result               | Actual Result      | Pass/Fail |
|------|--|-----------------|-------------------------------|--------------------|-----------|
| 1    | Candidate hits /recruiter/dashboard          | Candidate token | HTTP 403 or redirect to login | 403 JSON error     | Pass      |
| 2    | Recruiter fetches other org’s applicant data | Org mismatch    | API returns 401/403           | API 403            | Pass      |
| 3    | Expire JWT and reload                        | —               | User forced to log in again   | Redirect to /login | Pass      |

## Test Case 9 – Bulk Email Queue

**Project Name:** Recruit Right

**Module Name:** Bulk Email Dispatch

**Date:** 05-Jul-2025

**Test Case Id:** TC\_009

**Test Engineer:** Naeem

**Test Case Description:** Ensure notification API handles 50 rejection emails in parallel.

| S.No | Steps               | Input Data          | Expected Result                       | Actual Result             | Pass/Fail |
|------|---------------------|---------------------|---------------------------------------|---------------------------|-----------|
| 1    | Bulk-reject 50 apps | Status → "rejected" | 50 emails queued                      | Queue shows 50 jobs       | Pass      |
| 2    | Monitor worker      | –                   | All emails marked "sent"              | Mail log confirms 50 sent | Pass      |
| 3    | Spot-check inboxes  | 3 random candidates | Emails received with correct template | All three emails correct  | Pass      |

## Test Case 10 – Logout & Session Termination

**Project Name:** Recruit Right

**Module Name:** Logout & Session Termination

**Date:** 05-Jul-2025

**Test Case Id:** TC\_010

**Test Engineer:** Naeem

**Test Case Description:** Verify logout completely destroys session tokens and cookies.

| S.No | Steps              | Input Data | Expected Result                           | Actual Result           | Pass/Fail |
|------|--------------------|------------|---|-------------------------|-----------|
| 1    | Click "Logout"     | –          | Redirects to login page                   | Redirected successfully | Pass      |
| 2    | Press browser Back | –          | Dashboard remains inaccessible (redirect) | Redirects back to login | Pass      |
| 3    | Inspect cookies    | –          | Auth tokens/cookies removed               | Storage empty           | Pass      |