

Login Module Test Plan – IAS Platform

1. Introduction

This document describes the overall test plan for validating the Login module of the Drishti IAS Learning Platform.

The purpose of this test plan is to define the testing approach, scope, resources, schedule, and deliverables required

to ensure that the login functionality works as expected and meets both functional and usability standards.

2. Objective

The main objective of this test plan is to verify that the Login module allows authorized users to access the system

securely and reliably. The testing will ensure that all validations, error handling, CAPTCHA verification, and user

experience elements function correctly under different scenarios.

3. Scope

In-Scope:

- Login UI validation
- Email and Password field validation
- CAPTCHA verification
- Remember Me functionality
- Error message validation
- Navigation after successful login
- API validation for Login service

Out-of-Scope:

- Performance testing
- Security and penetration testing
- Mobile application testing
- Third-party authentication testing

4. Test Strategy

The following testing strategies will be applied:

- Manual Testing: To validate the user interface, field behavior, and overall user flow.
- Functional Testing: To ensure login works correctly for valid and invalid scenarios.
- Regression Testing: To verify that recent changes do not impact existing login

functionality.

- Exploratory Testing: To identify unexpected issues not covered by predefined test cases.
- API Testing: To validate backend login service responses using Postman.

5. Test Environment

Operating System:

- Windows 10 / 11
- macOS

Browsers:

- Google Chrome
- Microsoft Edge

Tools:

- MS Excel / Google Sheets (Test Cases and Bug Reports)
- Postman (API Testing)
- GitHub (Version Control and Documentation)

6. Entry Criteria

- Login page is accessible
- Test data (valid and invalid credentials) is available
- Test environment is stable
- Test cases are reviewed and approved

7. Exit Criteria

- All test cases are executed
- Critical and high-severity defects are fixed and retested
- Test summary report is prepared
- QA sign-off is provided

8. Roles and Responsibilities

QA Engineer:

- Design and execute test cases
- Log and track defects
- Prepare test summary report

Developer:

- Fix reported defects
- Support QA during defect verification

Project Manager:

- Review test progress
- Approve final QA sign-off

9. Test Deliverables

- Test Plan Document
- Test Cases Document
- Bug Report Sheet
- Postman API Collection
- Test Summary Report

10. Risks and Mitigation

Risk:

- Unstable test environment

Mitigation:

- Perform smoke testing before full test execution

Risk:

- Incomplete requirements

Mitigation:

- Clarify requirements with stakeholders before starting testing

11. Assumptions and Dependencies

- The login functionality is developed and deployed in the test environment
- API endpoints are available for testing
- Required test data is provided by the development team

12. Approval

This test plan is approved by my Teacher.

Any changes to this document must be reviewed and approved before implementation.