

Software Testing Plan – Sample

1. Introduction

This document defines the testing strategy for the Passport Automation System. The objective is to ensure that the system meets all functional and non-functional requirements and is reliable, secure, and user-friendly.

2. Test Strategy

2.1 Unit Testing

- Individual modules tested independently
- Focus on validation logic, authentication, and database operations

2.2 Integration Testing

- Interaction between modules such as Application, Payment, and Verification
- Ensures smooth data flow across system components

2.3 System Testing

- End-to-end testing of complete passport issuance workflow
- Verifies compliance with SRS requirements

2.4 Acceptance Testing

- User Acceptance Testing (UAT) by administrators and stakeholders
- Confirms readiness for deployment

3. Test Environment

3.1 Hardware Requirements

- Client machines with minimum 4GB RAM
- Server with sufficient processing and storage capacity

3.2 Software Requirements

- Operating System: Windows/Linux
- Web Browser: Chrome/Firefox/Edge
- Database: MySQL

3.3 Test Data

- Sample applicant profiles
- Valid and invalid document uploads
- Test payment transactions

4. Test Cases (Sample)

Test Case ID	Description	Input	Expected Output	Status
TC-01	User Login	Valid credentials	Successful login	Pass
TC-02	Application Submission	Complete form data	Application submitted	Pass
TC-03	Payment Processing	Valid payment info	Payment success	Pass
TC-04	Verification Update	Approve application	Status updated	Pass

5. Defect Management

- Defects are logged in a defect tracking system
- Each defect includes severity, priority, and status
- Defects are reviewed, fixed, and re-tested
- Closure occurs only after successful validation