

# **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