

→ Passport Automation System

1. Introduction

1.1 Purpose of the document

The document defines the requirements for the development of a PAS. The system is designed to automate the application, verification, and issuance process for passports, improving efficiency, and reducing processing time.

1.2 Scope

The document highlights the functional & non functional requirements, including application submission, document verification, passport status tracking & system integration w/ govt agencies.

1.3 Overview:

The PAS allows for users to submit passport applications online, track the status of the applications and receive updates. It will also allow govt agencies to verify applicant details & manage issuance process.

2. General Description

- * Apply for passports online, upload necessary documents & track application status.
- * Manage & verify applications, conduct background checks.
- * Oversee system, manage user access & ensure smooth operation
- * Document upload & verification
- * Automated passport issuance & printing.

3. Functional Requirements

3.1 Application Submission

- * Applicants must be able to fill out & submit applications online
- * System allows users to upload the necessary documents.

3.2 Verification Process

- * Govt. officials can review applications & documents for authenticity to perform background checks.
- * System integrates with law enforcement agency.

3.3 Status Tracking

- * Applicants must be able to track the application status.
- * System sends notifications via sms & mail to update status.

3.4 Passport Issuance

- * Once application is approved, system must generate a passport issuance order for dispatch.
- * Govt must be able to make passports as dispatched in system.

4. Interface Requirements.

4.1 User Requirements

- * System provides a user friendly web interface for applicants to submit forms, upload documents & track status.

4.2 External System Interfaces

- * System must integrate with other government databases for verification.
- * Integration w/ postal services for dispatch & delivery.

5. Performance Requirements

5.1 System Load

- * System must support up to 100,000 concurrent applicants at its peak.

5.2 Response Time

- * System must process form submissions & status updates within 2 seconds.

6. Design Constraints

6.1 Compliance & Regulations

- * System must comply with govt regulations on data privacy and security standards for personal identification.

6.2 Infrastructure

- * The system should be hosted on government certified cloud infrastructure to ensure scalability & availability.

7. Non functional Requirements.

7.1 Security

- * The system must implement encryption for all sensitive applicant data.
- * It must use role-based access control to ensure authorized control.

7.2 Availability

- * The system must guarantee 99.99% uptime to ensure applicants can access services at all times.

7.3 Scalability

- * System must scale automatically to accommodate increase in demand.

8. Preliminary Schedule & Budget

8.1 Timeline

Requirement analysis: 1 month

Development : 5 months

Testing & QA : 1 month

Deployment : 2 weeks

8.2 Budget

Development cost : \$200,000

Infrastructure & hosting : \$30,000

Annual maintenance : \$50,000

By 8/10/24