

## 5) Passport Automation System

### Problem Statement

The passport automation system simplifies the passport application and insurance process. It supports form submission, document verification, appointment scheduling, and status update tracking. The system reduces manual errors and accelerates processing. Integration with government databases is essential.

### Software Requirements Specification

#### 1. Introduction

##### 1.1. Purpose of the Document

To reduce paperwork, speed up passport services, and provide transparency to applicants through digital workflows.

##### 1.2. Scope of the Document

Covers online application, document uploads, appointment management, biometric capture, and status tracking.

##### 1.3. Overview

Describes the system modules, service flow, functional interfaces, and infrastructure required for deployment.

#### 2. General Description

Applicants register, fill forms, upload documents, and book appointments. Officials verify and approve applications. Status updates are automated.



### 3. Functional Requirements

User registration and login

Online form submission and document upload

Appointment scheduling and biometric capture

Application tracking and notifications

### 4. Interface Requirements

Web portal for applicants and admin dashboard for officials

Interface with national ID and police databases.

### 5. Performance Requirements

Support 1000+ daily applications

Application load time must be under 3 seconds.

Notifications sent in real time

### 6. Design Constraints

Must integrate with government identity and police databases

Biometric data capture must be encrypted

Should follow data protection laws

Must support multiple languages and accessibility is required

### 7. Non-functional Requirements

System should handle up to 5000 applications per day

99.9% uptime for government service

Application status should update in real time

Data must be encrypted and stored securely

Must provide automated and manual audit mechanisms

~~8. Preliminary Schedule and Budget~~



## 8. Preliminary Schedule and Budget

### Schedule (6 months)

- Month 1 - Requirement analysis, coordination with govt bodies
- Month 2 - User registration, form submission modules
- Month 3 - Document upload, scheduling, biometric capture
- Month 4 - Verification and police clearance modules
- Month 5 - Notifications, dashboards, reports
- Month 6 - Security <sup>audits</sup> ~~checks~~, stress testing, deployment

### Budget Breakdown

- Development Team - \$ 200,000
- Biometric + Security Systems - \$ 60,000
- Infrastructure (Servers, API, Hosting) - \$ 60,000
- QA, Legal and Compliance - \$ 50,000
- Project Management and Training - \$ 30,000

Total Cost - \$ 400,000

26/9