

## Q5. Passport Automation System

### 1. Introduction

#### 1.1 Purpose of this document

This document outlines the software req. for the Passport Automation System. It serves as a comprehensive guide for developers, stakeholders & end-users, detailing system's functionalities, performance criteria & design constraints.

#### 1.2 Scope of this Document

Document covers the objectives, functionalities, expected outcomes of P.A.S. It includes an estimation of development costs & the time required, providing valuable insights for customers.

#### ~~1.3 2. General Description~~

System aims to assist users in submitting passport applications, tracking application status and receiving passports efficiently. Users will benefit from automated notifications, detailed application tracking, and user-friendly interface. The primary users include applicants, passport officers & administrative staff.



### 3. Functional Requirements

- Online application submission & document upload.
- Automated verification of application details & documents.
- Real time tracking of application status.
- User authentication and role based access control.
- Integration with government database for data verification.
- Notification System for updates via SMS & email.
- Appointment scheduling for biometric & document verification.

### 4. Interface Requirements

- A user friendly graphical interface for easy navigation & operations.
- APIs for integration with external system.
- Data import/export capabilities in std. format.
- Notification interfaces for email and SMS alerts.

### 5. Performance Requirements

- The system should handle 50000 conventional users.

- real-time processing with response times with on few seconds for every action.
- Minimal memory usage to ensure efficient performance.
- Error rate & downtime should be minimized.

## 6. Design Constraints

- The system must be compatible with all types of devices & systems.
- PostgreSQL to be used for Database.
- Compliance with gov. regulations for data security & privacy.
- Implementation of Restful APIs for external integration.

## 7. Non Functional Attributes.

**Security:** Role-based access control, data encryption & secure login.

- System should be accessible via web browsers & mobile devices.

**Reliability:** Ceases downtime with backup.

- Modular design for easy update & changes.

- It should be scalable.



## 8. Preliminary Schedule & Budget:

Schedule: Requirements Gathering : 3 weeks  
Sys. Design : 6 weeks  
Development : 10 weeks  
Testing : 5 weeks  
Deployment : 3 weeks

Estimated Schedule for project is : 27 weeks

## Budget:

Requirements documentation : ₹ 100000  
Design & tools : ₹ 500000  
Development : ₹ 100000  
Testing : ₹ 400000

Estimated budget for project is : ₹ 2000000