

## Q Generate the SRS document for Passport Automation system

### 1. Introduction

#### 1.1 Purpose of this document

→ This document outlines the software requirements for the passport automation system. It serves as a comprehensive guide for developers, stakeholders and end users, detailing system's functionalities, performance criteria and design constraints.

#### 1.2 Scope of the document

→ Document covers the objectives, functionalities, expected outcomes of passport application system. It includes an estimation of development costs and the time required providing valuable insight for customers.

### 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 and administrative staff.



### 3. Functional Requirements

- Online application submission and document upload
- Automated verification of application details and 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 and email
- Appointment scheduling for biometric and document verification

### 4. Interface Requirements

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

### 5. Performance Requirements

- The system should handle 50000 conventional users
- Real time processing with response time within a few seconds for every action
- minimal memory usage to ensure



efficient performance

→ Error rate and down time should be minimized

## 6. Design Constraints

- The system must be compatible with all types of devices and systems
- PostgreSQL can be used for database
- Compliance with government regulation for data security and privacy
- Implementation of restful APIs for external integration.

## 7. Non Functional Attributes

- security - role based access control, data encryption and secure login system should be accessible via web browser and mobile devices
- Reliability - lesser down time with backup
- modular design for easy update and changes
- It should be scalable

## 8. Preliminary Schedule and Budget

- Estimated schedule for the project is
  - Requirements gathering - (3 weeks)
  - System Design - (6 weeks)
  - Development - (10 weeks)
  - Testing - (5 weeks)
  - Deployment - (3 weeks)

Estimated scheduled time - 27 weeks



- Estimated budget for the project is
- Requirements documentation - ₹100000
  - Design and Analysis - ₹500000
  - Development - ₹1000000
  - Testing - ₹400000

Total estimated budget - ₹2000000

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