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 functional ities, performance criteria & design criteria.

1.2 Scope of this document

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

2. General Description

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

3. Functional Requirements

• Online application submission & 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 & email.

• Appointment scheduling for biometrics & 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 in 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 device & systems

• PostgreSQL to be used for database.

• Compliance with gov. regulations for data security & privacy

• Implementation of Restful API's 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.

B. Preliminary schedule & Budget

Schedule : Requirements Gathering   : 3 weeks

       System 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

    Estimed budget for project is : ₹ 2000000.