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③ Passport automation system

1. Introduction

1.1 Purpose of this document:

This document outlines the requirements for developing a passport Automation system. The purpose of this system is to simplify and automate the application, processing and issuance of passports, ensuring a streamlined and efficient process for applicants and government authorities.

1.2 Scope of this document:

This document covers the functional and non-functional requirements for the passport automation system. It details the system's objectives, its interaction with external systems, and the necessary constraints. The system will enhance user experience by reducing manual paperwork, improving processing speed, and minimizing errors. Time and cost estimates for development are included.

1.3 Overview

The passport Automation System will allow citizens to apply for passports online, track application status, and receive notifications at every step of the process. It will provide a centralized platform for government authorities to manage and process applications efficiently. The system will reduce application processing time and provide transparency to applicants through real-time updates.

2. General Description

The passport Automation System aims to

automate the passport application and issuance process. The system will support online application, document verification, appointment scheduling, and passport delivery tracking. It will benefit both citizens and passports authorities by streaming the process, reducing human error, and improving service efficiency. The system will also ensure compliance with international standards for passport insurance.

3. Functional Requirements

* Citizens can submit applications through a web based platform by filling out and uploading necessary documents.
* The system will automatically verify the documents submitted against government database (e.g. identity proof, address proof).
* Applicants can schedule appointment for biometric data collection and interviews at passport offices.
* Application status Tracking: The system will allow users to track their application status in real-time, from submission to passport issuance.
* The system will send email/SMS notifications at key stages of the application.
* Authorities can generate and issue digital passports, which are linked to physical passports for tracking.

4. Interface Requirements

* The system will have a user-friendly web interface, accessible via desktop and mobile

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devices enabling applicants to navigate easily and complete their tasks.

* Data interfaces: The system will integrate with government databases for automatic documentation validation. It will also integration with postal services for tracking passport deliveries.
* The system will support biometric devices.

5. Performance Requirements

* Response time should be fast.
* Data storage should be secure
* Uptime should be nearly 100%.

6. Design Constraints

* The system must comply with international security standards for passport issuance, including data encryption and secure storage.
* The system will use biometric data collection devices that are compatible with the latest government regulations.
* The system should integrate with government identification databases.

7. Non-functional attributes

* Security: The system will used advanced encryption techniques to protect personal and biometric data.
* The system must be portable across different device
* The system must be scalable.

8. Preliminary Schedule and Budget

* Development Duration: The system is estimated to take 9 months to develop, including testing and deployment.
* Budget: ₹ 5,00,000
  SRS : ₹ 50,000
  Development: ₹ 2,00,000
* Testing phase : ₹ 1,00,000
  Maintenance and updates: ₹ 1,50,000

Classes

* Biometrics Recorder
* Citizen
* Passport Authorities
* Passport Application
* Notification System.

Classes

SRS
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