⑤ Passport Automation System

Problem Statement :

The current passport application process is largely manual, time-consuming and proter prone to delays due to paperwork, repeated visits and lack of real-time status tracking. Applicants face difficulties in submitting doc's, while officials struggle with handling large volume of applications efficiently.

1. Introduction

1.1 Purpose of the document :
This document specifies the requirements for the passport Automation system. It will guide developers, testers, administrators and government authorities in building and maintaining a secure, efficient and user-friendly system for managing passport applications, renewal, etc.

1.2 Scope of the document :
The passport Automation system is a web based platform designed to simplify the process of applying for new passports, renewing expired ones, and checking application status.

1.3. Overview

The PAS will over serve as a centralized system where applicants can register online, upload necessary documents and book appointments.

2. General Description

2.1 Product functions

- Applicant registration and login.
- online application submission for new passports and renewals.
- Document upload and verification.
- Appointment scheduling for interviews.
- online fee payment.
- Application tracking and status updates

2.3 User characteristics

- Applicant: General citizens applying for passports or renewals.
- Passport officers verify documents, process applications.

3. Functional Requirements

FR.31. Applicant Management: The system shall allow applicants to register and create accounts

FR 2. Application submission: The system shall allow applicants to submit new passport/renewal applications.

FR3. Appointment scheduling: The system shall provide available time slots for interviews.

FR4.

* Payment Processing : The system shall allow online payment for application fees.

FR5 : Application tracking : Applicants shall be able to track the status of their applications.

4. Interface Requirements :

4.1 User Interface : Applicants will have a single portal for registration, application and tracking.

4.2 Hardware interfaces : supports scanners for document verification at passport offices.

5. Performance Requirements :
- Must support at least 5,000 concurrent users.
- status updates should reflect in real-time.
- system uptime must be at least 99.7%/month

6. Design constraints :
- Must follow govt. security and data protection standards.
- Web application must support responsive design.

7. Non functional Attributes

7.1 Security : End to end Encryption for data transmission.

7.2 Usability : Intuitive design with step-by-step application guidance.

7.3 Maintainability : Modular architecture for easy updates.

7.4 Reliability: Daily backups with recovery support.

8.   Preliminary schedule and budget.

8.1 Schedule

Phase	Timeline
Req. Analysis	3 weeks
UI/UX design	2 weeks
Development	10 weeks
Testing + QA	4 weeks

8.2 Budget

Total Estimated ⟶ ₹ 45,000