5) Passport Automation System

=> (1) Develop a problem statement

In a goverment passport office, processing applications manually causes delays, errors, & bad experience for customers. It needs an automated system that ~~tracks~~ manages applications, schedule appointments, & updates applicants with real-time status.

=> (2) Develop a ~~complement~~ complete SRS document.

1. Introduction

1.1) Purpose of this document

The purpose of this document is to describe requirements for the Passport Automation System (PAS). It provides views of the project objectives, scope & deliverables to ensure smooth passport application, processing, & issuance.

1.2) Scope of this Document

This document defines the functionalities, cost & timeline for the PAS. The system will allow applicants to process passport application efficiently.

1.3) Overview

The PAS is designed to automate the entire passport application process, reducing paperwork and delays. It'll handle applicant registration, document submission, appointment scheduling, fee payment, verification, approval & status tracking

2. General Description

The PAS will serve applicants, staff & administrators by enabling online application submission, secure fee payment, docs verification, real-time application tracking & automated sms/email alerts.

3. Functional Requirements:

3.1) Applicant Registration and Login
- Allow applicants to register, login with unique credentials

3.2) Application Submission
- Fill out passport application forms online.
- Upload scanned documents (ID, address proof, photos).

3.3) Appointment Scheduling.
- Allow scheduling, re-scheduling or cancellation of appointm

3.4) Payment Processing:
- Accept multiple payment modes & generate e-receipt.

3.5) Verification & approval:
- Officials can verify document & conduct background chec
- Approve, reject or request additional documents

3.6) Status Tracking & Notifications:
- Applicants can track the progress of their applications
- Automated sms/email alerts.

4. Interface Requirements.

4.1) User Interface.
- Dashboard for officials with verification & approval tools
- Simple user-friendly interface for applicants

4.2) Integration Interface
- Integration with payment gateways, police verification db & background checks.

5. Performance Requirements:

- System should respond to user actions within 2 sec
- Support 50,000+ concurrent users during peak application period
- Ensure correctness & security of applicant data across modules

6. Design Constraints.

6.1) Hardware Limitations:
- Must run on standard PCs, servers, & mobile devices.

6.2) Software Dependencies.
- Database management system (MySQL/SQLite/MongoDB)
- Secure web frameworks (Java Spring Boot, .NET or Django)

7. Non-Functional Attributes:

7.1) Security:
- Multi-factor authentication for applicants & officials.
- Strong encryption for sensitive data (ID proofs, payment info)

7.2) Reliability
- Ensure system uptime with data backup & recovery support.

7.3) Usability.
- Easy navigation for users with step-by-step guides.

7.4) Reusability:
- Reusable modules for government ID systems integration

7.5) Scalability:
- Allow future expansion for handling more applications.

7.6) Compatibility:
- Compatible with major browsers (Chrome, Firefox, Safari, Edge)

7.7) Data Integrity:
- Maintain consistency and accuracy of records at all stages

8. Preliminary Schedule & Budget.

The PAS will be developed in 8 months, covering 6 modules with 18,000 Line of code. The total budget is $150,000., covering planning, development, testing, integration, & deployment.

Shantanu
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