

5) passport Automation system

problem statement: Design and implement an document for passport automation system.

1. Introduction:

1.1 Purpose of Document:

This document defines the requirements for the passport Automation system (PAS). It outlines features, performance expectations and the required constraints to automate application and process that are of customers.

1.2 Scope of Document:

The PAS will allow to supply for new passport, renewals, and updates online. It supports verification of documents, appropriate schedule payment processing and status.

1.3 Overview:

enable the system will:

- * Enable to submit passport + application
- * Allow scheduling of certifying biometric appointment.
- * provide gateway for application fees
- * Track application progress and ~~no~~ ^{notify} use.
- * Allow to approve or request application

2) General Description:

The PAS as interface between Applicant and the Government passport department

Users include:

- * Applicant: Submit applicants, pay fees, view status.
- * passport officers: verify documents, conduct background checks.
- * Admin: Manage system, monitor reports and enforce rules.

3) Functional Requirements:

- ✓ User registration and login with authentication
- ✓ online applications form submission and document upload
- ✓ Appointment scheduling for biometrics and police verification
- ✓ payment gateway for fees
- ✓ status checky sms / Email.
- ✓ Passport officer dashboard for verification

4) Interface Requirement

- ✱ User Interface: web portal and mobile app for applicants, dashboard ~~for~~
- ✱ External Interface: Integration into database, national ID system and payments gateways.

5) Performance Requirements:

- ✱ System should support upto 10,000 concurrent users
- ✱ response time ≤ 5 seconds for application submission and status
- ✱ Database should handle millions of applications

6) Design Constraints

- × must comply with Government IT and Security policies.
- × Sensitive data must be encrypted.
- × Biometric data storage must follow
- × Accessible desktops and mobile devices

7) Non functional Attributes

- × Security
- × Reliability
- × Usability
- × Scalability

8) Preliminary Schedule and Budget

Schedule:

Requirement Analysis : 1 week

System Design : 2 weeks

Development : 6 weeks

Testing : 2 weeks

Deployment / testing : 1 week

Total ~ 12 weeks

estimated Budget - 10-20 Lakh

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