

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 expectation and the required constraints to automate application and process ~~for @ all countries~~.

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 features.

1.3 Overview:

- * enable the system will:
- * enable to submit passport + application
- * provide scheduling of verifying biometric
- * provide gateway for application fees
- * track application progress and monitor use.
- * Allow to approve or reject application

2) General Description:

The PAS or interface between Application and the Government passport department features include:

- * Applicants: submit applicants, pay fee, view status.
- * passport officers: verify documents, conduct background checks.
- * Admin: manage system, monitors, report and enforce rules.

3) functional Requirements:

- * User registration and log in with authentication
- v Online application form submission and document upload.
-) Appointment scheduling for biométrics and police verification
- v Payment gateway for fees
- * Status check SMS / E-mail.
- v Passport officer dashboard for verification

4) Interface Requirement

- * User Interface: web portal and mobile APP for applicants, dashboard.
- * External Interface: Integration into database, national ID system and payment gateways.

5) Performance Requirements:

- * System should support upto 10,000 concurrent users
- v 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 be accessible
 - * Laptops 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

SA
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