

V Passport automation system.

Problems statement:

Manual passport application & verification processes are time-consuming and error-prone. An automated system is needed to simplify application, tracking, and approval.

1) Introduction

1.1) purpose

To develop a passport Automation system that enables online application, verification, and issuance of passports.

1.2) Scope

- Online application & document submission
- Automated verification & police clearance
- Status tracking and notification
- Appointment scheduling

1.3) Overview

The system reduces paper-work, speeds up processing, & provides transparency for applicants.

2) General Description

The system is a web-based application connecting applicants, passport offices and police departments for efficient passport processing.

3) User Classes and Characteristics

- Applicant : Applies, uploads documents, and track status
- Passport Officer : Verifies applications & approves / rejects
- Police department : Conducts background verification
- Admin : Manages system operations

5) Interface Requirements

- Web portal & mobile app
- Secure login for different user roles
- User-friendly dashboard for applicant

6) Performance Requirements

- Handle thousands of applications daily
- Response time < 3 seconds per request
- 24/7 availability

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7) Design Constraints

- Must comply with government IT & security standards.
- Encrypted data transfer (SSL/TLS)
- Integration with national ID & police database.

8) Non-functional Requirements

- Security: Strong encryption, OTP verification, secure login
- Reliability: Regular data backups & recovery systems
- Usability: Simple interface for all age groups
- Scalability: Handle increasing applicants each year

9) Schedule & Budget

- Schedule: 6-8 months for complete deployment
- Budget: ₹ 15-20 lacs depending on scale & security measures.