5 Passport Automation System

Problem Statement: Design and implement a Passport Automation System that simplify the process of applying renewing and tracking passports. The system should provide a secure online platform for citizens reduce manual paperwork and improve efficiency for passport officer through automation and centralized management.

1 Introduction:

1.1 Purpose of the document: The purpose of this document is to outline the requirements and specifications for the development of a passport Automation System. It defines project objectives, scope and deliverables for both citizens and Passport Authorities.

1.2 Scope of the document: This document describes the functionalities of the Passport automation System, including online application, submission, document verification, fee payment, status tracking and reporting.

1.3 overview: The passport automation System is designed to streamline the entire Passport lifecycle application, verification approval and delivary. It will integrate secure authentication, Centralized database

2) General description:

The passport Automation System will help Citizens Passport officers by providing an online Platform for submiting applications, verifying documents, Scheduling appointments. and tracking the Statu of requests.

3) Functional Requirements:

3.1 Application Management
• Allow users to apply online for new or renewed Passports
• Upload and verify required documents.

3.2 Payment and Fee processing
• Support Secure online payments via Cards, UPI
• Generate receipts automatically.

3.3 Status tracking and Notifications,
• Provide real-time updates on application Progress
• Notify users via SMS / Email about verifical approval

3.4 Verification and approval:
• Integrate with government databay for identity verification
• Enable passport officers to review and approve/reject applications

4   Interface Requirements:

4.1   User Interface:
- web portal and app for citizens
- Admin dashboard for passport officers

4.2   Integration Interface:
- Integration with adhar, and govt ID.
- Payment gateway Integration

5   Performance Requirements:

5.1   Response time: Process user request and application Submission within 2-3 Second

5.2   Scalability : Support at least 1 million Concurrent users.

6   Design Constraints:

6.1   Hardware Limitations:
The system should be accessible on laptop desktop or phones.

6.2   Software dependencies:
- Relational database
- Compilance with government IT and Security Standards

7 Non-Functional Requirements:

7.1 Security:
Implement strong authentication, encryption and secure data storage.

7.2 Reliability: Ensure 99.9% uptime to support nationwide usage.

7.3 Scalability: Handles millions of applications annualy.

7.4 Portability: Accessible via web and mobile Platforms.

7.5 Usability: Provide user-friendly interface Citizens with minimal technical knowle

7.6 Data Integrity - Ensure secure, tamper-pro and accurate citizen records.

8 Preliminary Schedule and Budget:

- Estimation time: 10-12 months
- Estimated budget: $ 1,000,000.

This includes requirement analysis, Syste development, integration with governmer database, security Compilance, testi deployment.