

5. Passport Automation System:

Problem Statement:

Develop a passport automation system to streamline application submission, appointment scheduling & status tracking. Prioritize user friendly interface, data security and adherence to SE & OOM principles. Introducing a passport automation system is critical to streamline the application process, reduce processing times, enhance security measures.

1. Introduction:

1.1. Purpose

To define specifications and requirements for the development of a Passport Automation System.

1.2. Scope

To describe the overall objectives and scope of the Passport Automation System.

1.3. Overview:

Designed to streamline and automate passport application, processing and management procedures.

2. General Description:

* User Registration

Allow users to register and receive unique login credentials.

* Application Submission:

Users can submit passport applications electronically.

* Application Processing:

Passport officers review and process applications.

- * Payment Processing
Support online payment for passport applications
- * Appointment Scheduling
Users can schedule appointments for various passport related tasks.
- + Passport Issuance:
Upon approval, system generates passport documents.

3. Functional Requirements

- + User Registration:
Register users and assign unique login credentials.
- * Application Submission:
Allow electronic submission of passport applications.
- * Application Processing:
Passport Officers review applications.
- * Payment Processing
Support online payment for application fee.
- * Appointment Scheduling
Allow users to schedule appointments.
- * Passport Issuance
Generate passport documents upon approval.

4. Interface Requirements

- 4.1. User Interface
Intuitive interface for easy navigation.
- 4.2. System Interface.
Integration with payment gateways.

5. Performance Requirements.

- 5.1. Response Time.

5.2 Scalability

Handle large volume of applications and transactions

6. Design Constraints

6.1 Platform Compatibility

Compatibility with various devices and browsers

6.2 Integration with external Systems

Integration with government databases for data validation

7. Non-functional Attributes

+ Security

Robust authentication mechanisms

Encryption of sensitive data

+ Reliability

- Backup and recovery mechanisms

- Continuous monitoring for error detection

+ Usability

- Intuitive interface requirements requiring minimal training

8. Preliminary Schedule and Budget

Development estimated at 6 months, \$60,000 budget.