

V. Passport Automation System

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Problem statement: Design a passport automation system streamlines passport issuance process including application processing, document verification, appointment scheduling, fee collection and biometric data capture. It enhances efficiency, reduces processing time and ensures accuracy in passport issuance.

1. Introduction.

1.1 Purpose of the document

To define specifications and preliminary for the development of passport automation system such that all users have a seamless experience.

1.2. Scope of the document.

- * provides an online interface for user to submit documents for issuing of passport
- * communication platform between applicant and admin users can know status of application.

1.3 Overview.

- * overall description and specific registration were described in the document.
- functions to define this system with roles and functions are defined here.

2. General Description :

- * passport automation system is an interface between applicant and admin system makes easy interface and data security.

3. Functional Requirements

- * User registrations: unique ID, individual family accounts.
- * Application management.
- * Document verification.
- * Passport permitting.

4. Interface requirements:

- * web portal interface.
- * Biometric Device.
- * Document verification systems.

5. Performance requirements:

- * Response time should be less than 5 seconds.
- * Scalability: should support different versions of web browsers and extensions.
- * Reliability: It should be able to run even in case of errors or server issues.

6. Design constraints:

- * Regulatory compliance.
- * System should be simple and easy to use.
- * There should be encryption methods for data privacy.

7. Non-functional attributes:

- * The system should be secure.
- * Portability: System can be moved to any server at any given time.
- * Reliability: The system should be scalable.
- * Scalability: System should be able to handle the varying number of users.

8. Performance schedule and Budget:

Steps:

Requirement gathering - 2 weeks

Design and architecture - 4 weeks

Development - 12 weeks

Testing and quality assurance - 4 weeks

Deployment and testing - 2 weeks

Total time required - 6 months.

Budget - ₹ 2,00,000/-