

### 3. Passport Automation System

#### 1. Introduction

1.1 Purpose of this document: This document outlines requirements for the Passport Automation System.

The purpose is to provide a clear and

comprehensive description of the system along with its various functionalities.

1.2 Scope of this document: The document

explains the Passport Automation System

and its processing and issuing of Passports.

1.3 Overview: Passport Automation System will

enhance and simplify the process of

Passport processing for government

agencies and citizens by reducing processing time

and errors.

#### 2. General Description:

The Passport Automation System caters to: user

applicant, government officials, support staff

The functionalities offered are:

- Simplification application process
- Efficient document verification
- Transparent status tracking
- Online Document submission

#### 3. Advanced Requirements:

- Appointment Scheduling for the applicant.

It enables the users to handle most of the process online and receive real-time updates regarding

The status of user application. Appointments are scheduled to collect bio-metric data. Documents are verified using existing government rules and regulations.

### 3. Functional Requirements:

- User registration and authentication: System implements secure login and sign up along with multi-factor authentication for enhanced security.
- Online Application Submissions: System allows users to fill and upload the application forms online.
- Document verifications: Uploaded documents are verified using government databases.
- Appointment Scheduling: Appointments are scheduled to collect bio-metric data.
- Status tracking: System provides real-time updates to the users regarding their application.

### 4. User Interface Interface Requirements:

User interface: user dashboard with account access to manage the system.

System interface: integrated with systems to ensure smooth and correct processing of data.

### 5. Performance Requirements:

- Maximum error rate should be less than 0.01%.
- It should handle upto 10,000 concurrent users.
- It should respond to each activity within 2sec.

### 6. Design Constraints:

- use of databases to store data
- should be compatible with user as well as government IT infrastructure

### 7. Non Functional Attributes:

- Security: end-to-end encryption for each activity
- Portability: should be compatible with various OS
- Reliability: system uptime should be 99.9%
- Scalability: should successfully handle increasing user load.

### 8. Preliminary Schedule and Budget:

#### Schedule

Requirement Gathering: ~~\$50,000~~ 1 month

Design Phase: 1 month

Development Phase: 3 months

Testing Phase = 3 months

Total. Budget: \$120,000

Requirements Phase: \$10,000

Design Phase: \$20,000

Development: ~~\$50,000~~

Testing = \$30,000

Miscellaneous: \$10,000

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