

### 3. Passport Automation System

#### 1. Introduction

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

Its 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 process time and errors.

#### 2. General Description:

The Passport Automation System caters to: user applicants, government officials, support staff. The functionalities offered are:

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

#### 3. Functional 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 their 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 form 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 Info~~ 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 up to 10,000 concurrent users ~~at any time~~.
- It should respond to each activity within 2 sec.



## 6. Design Constraints:

- Use of databases to store data
- Should be compatible with users as well as government IT infrastructure.

## 1. Non Functional Attributes:

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

## 2. Preliminary Schedule and Budget:

### Schedule

Requirement gathering: ~~\$150,000~~ 1 month

Design phase: 1 month

Development Phase: 5 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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