

## → Passport automation

### 1. Introduction

#### 1.1 Purpose

The purpose of this software Requirement Specification document is to outline the requirement for Passport automation system. It is designed to facilitate and automate the process of application, processing and issuance.

#### 1.2 Scope

The system will be accessible to applicants, administrative staff, and government authorities, with each user role having a unique set of permissions and functionalities.

#### 1.3 Overview

This document provides a detailed overview of the Passport automation system, covering its functional and non-functional requirements.



## 2. General description

The passport automation system will be a web based platform designed to serve as a complete solution for passport application and issuance.

## 3. Functional Requirement

- User Registration — allows user to register with basic details.
- Application Submission — provides an intuitive online form for entering personal, contact and employment details.
- Appointment management — allow users to book, reschedule or cancel appointment.
- Payment processing — implement a secure payment gateway for application fees.
- Verification — workflow for document verification, KYC check, and police verification.

## 4. Interface Requirement

- User-friendly portal with forms, tracking dashboard and appointment management.
- access to application approval, background check data and final issuance.
- integration with third-party payment gateways.
- Implement email and SMS for notification and OTPs.



## 5. Performance Requirement

- The system should support up to 10,000 concurrent users.
- Average response time for each transaction should not exceed 2 sec.
- Real-time updates for application tracking

## 6. Design Constraint

- The system must comply with national data protection laws.
- Follow security best practices for data encryption and access control.

## 7. Non-Functional Requirement

- Security - implement role-based access control
- Usability - The interface should be intuitive, with clear navigation and minimal clicks.
- Reliability - Ensure 99.9% uptime for 24/7
- Scalability - Optimize database queries for large data volumes.

## 8. Preliminary Schedule and Budget

Budget estimate :

Development : \$80,000



Testing : \$ 20,000 \$ - dol

Hardware and software : \$ 25,000

Miscellaneous : \$ 10,000

Total estimated budget : \$ 135,000 .

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08.10



# → Passport automation

Finalise application
+id: int
+date: date
+add-detail ( )
+display ( )

applicant

0-1

## Applicant

+name: string  
 +email: string  
 +phone: int  
 +address: string  
 +education: string

+login ( )  
 +logout ( )  
 +branch ( )

## Renewal application

+old-id: str int  
 +new-id: int  
 +date: date  
 +name: string  
 +status: string

+add-detail ( )  
 +remove-detail ( )  
 +delete ( )

## applicant

### Passport agency

+user-id: int  
 +login-status: int  
 +branch: string

+verify ( )  
 +enter details ( )

### Applicant status

+id: int  
 +status: string

+get-status ( )

updates status

## Admin authentication

+username: string  
 +password: string

+update-status ( )  
 +verify-application ( )  
 +remove-application ( )

## Passport authority management

+name: string  
 +head-office: string  
 +address: string

+display ( )  
 +update-detail ( )

## Police verification

+application-id: int  
 +station: string  
 +area: string

+verify-detail ( )  
 +submit-detail ( )  
 +get-detail ( )

0...\*

12/11/21