

7. Non-functional Attributes

7.1 security: only authorized user can modify stock

7.2 reliability: system should not lose data even during crashes

7.3 scalability: must support future expansion of items and users

7.4 usability: - Easy to use for employees with minimal training

7.5 portability: compatible with different operating system

7 Preliminary Schedule and Budget
The stock maintenance system is expected to take 4 months to develop with an estimated budget of \$18,000, this includes requirement analysis, design, coding, testing, and final deployment.

5 Pass Port Automation System

Introduction:-

1.1 Purpose of this document

The purpose of this document is to describe the requirement of the Pass Port Automation System.

1.2 ~~scope~~ of this document

The Pass Port Automation System will allow applicants to submit application and receive notification online, upload request documents, track the status of their application, and receive notification.

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1.3 Overview

The Pass will consist of modules for application submission, verification, payment processing, and status tracking.

2. General description

2.1 Applicants: to apply for a passport, upload documents, and check application status

2.2 Passport officers: to verify documents and approve/reject application

2.3 Admission: to oversee the entire system and generate reports.

3. functional requirements

3.1 online application submission with documents upload

3.2 Payment gateway for application

3.3 verification module for officers to check documentation and details

3.4 status tracking & notifications for applicants

3.5 appointment scheduling for interviews/verification

3.6 Report generation for administrators

4. Interface Requirement

- A web based interface for application to apply online

- A secure ~~portal~~ for officer to verify and process applications
- database connectivity (e.g. ngssol/mali) to store application records and documents

5. Performance Requirement

- The system should handle thousands of applications per day
- The response time for each request should be under 2 sec
- The system should be available 24/7 for applicants

6. Design Constraints

- must follow government rules and policies for passport applications
- must ensure data security using encryption techniques
- Should support integration with government Id databases

7. Non-functional Attributes

7.1. Security :- Sensitive applicant data must be encrypted

7.2 Reliability :- The system should have 99.99% uptime

7.3 Scalability :- must support future increases in number of applicants

7.4 Usability :- Easy to use for applicants with minimal computer knowledge

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7.5 Portability is Com Portable version
web browsers on multiple platform

8. Preliminary Schedule & Budget

The passport automation system is expected to take 6 months for development with an estimated budget of \$50,000. This covers requesting gathering, design, coding, testing, security validation, and deployment.

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