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PASSPORT AUTOMATION

1. Introduction

1.1 Purpose : The purpose of this document is to outline the req for the Passport Automation System (PAS) It provides a detailed description of the functionality performance expectations and constraints.

1.2 Scope : It covers design & implementation of an automated system for processing passport applications. The development is expected to enhance efficiency, reduce processing time, and improve user experience.

1.3 Overview : It is designed to streamline the process of applying for and issuing passports.

2 GENeral Description:

The passport automation system will facilitate passport applications for citizens through a web-based platform.

- User objectives : i) Simplified application submission process
  ii) Real-time application tracking
  iii) Secure payment processing
- User characteristics : i) citizens applying for passport
  ii) Government officials processing applications
  iii) IT administrators managing the system

3 Functional Requirements:

1. User registration and Login : Users must be able to create an account, log in, and manage their profiles
2. Application Submission : Users can fill out and submit passport applications online
3. Document upload : Users must be able to upload required documents securely.
4. Payment Processing : The System should support multiple payment methods.

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4. Interface requirements

1. User interface: A web-based front end with a responsive design for accessibility on various devices
2. API interface: The system must interface with government databases for identity verificat^{n} & background check's
3. Payment Gateway: Integration with secure third-party payment processing service

5. Performance requirements

1. Response Time: The system should respond to user actions within 2 seconds.
2. Availability: The system should have an uptime of 99% with minute ~~low~~ system shutdown time
3. Payment Gateway: ~~Integration with secure third-party~~ The system must handle up to 10,000 concurrent users

6. Design Constraints

1. Technology Stack: Must use specified technologies (eg, Java, SQL database)
2. compliance: The system must adhere to data protection regulations (eg GDPR)
3. Budget Constraints: Development must stay within the $ 150,000 budget

7. Non-Functional Attributes

- Security: Implement SSL encryption and secure authentication methods.
- Reliability: The system should be capable of recovering from failures without data loss.
- Scalability: The system should be designed to scale up to accomodate future growth in user base.

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8. Preliminary Schedule and Budget

- Project Timeline: • requirements gathering: 1 month
  • Development: 4 months • Testing: 1 month
- Estimated Budget: $ 150 000 which includes development, testing & deployment costs. Development - $ 90k, Testing - $ 40k & Deployment - $20k