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Problem Statement:

The manual passport application process is time-consuming, error-prone, and lacks efficiency. The traditional method of passport application and processing involves lengthy procedures and a considerable amount of paperwork, which can lead to delays in issuing passports. Moreover, it is difficult to track the status of the application, and there is a high risk of fraud.

Software Requirement Specification(SRS)**1. Introduction:**

- 1.1. **Purpose of this Document:** The purpose of the Passport Automation System is to automate the process of passport application and processing. This system aims to provide a hassle-free and efficient way of applying for and obtaining passports. The system aims to simplify the passport application process and reduce the time required for processing applications.
- 1.2. **Scope of this document** – The Passport Automation System will allow applicants to apply for a passport online, and the application will be processed electronically. The system will facilitate the processing of passport applications and the issuance of passports. The system will also enable the tracking of passport applications and provide updates on the status of the application. The system will be accessible to citizens of the country who wish to apply for a passport.
- 1.3. **Overview** – The Passport Automation System will be a web-based application that will allow citizens to apply for a passport online. The system will include an online application form that the applicants will fill out with their personal details, contact information, and other relevant information. The system will also allow the applicants to upload their passport photos and other necessary documents. Once the application is submitted, the system will automatically process the application and generate a passport application number.

2 General description:

The Passport Automation System will have two main components: the applicant module and the processing module. The applicant module will allow citizens to apply for a passport online, while the processing module will facilitate the processing of the applications and the issuance of passports. The system will also have an administrative module that will enable the system administrator to manage the system, including user accounts, system settings, and database management.

3 Functional Requirements:

- The system shall allow citizens to apply for a passport online.
- The system shall validate the applicant's personal details, contact information, and other relevant information.
- The system shall allow the applicants to upload their passport photos and other necessary documents.
- The system shall generate a passport application number for each application.
- The system shall facilitate the processing of passport applications and the issuance of passports.
- The system shall provide updates on the status of the application to the applicants.
- The system shall allow the system administrator to manage user accounts, system settings, and database management.

4 Interface Requirements:

- The system shall have a user-friendly interface for the applicants to fill out the application form.
- The system shall have a secure login system for the applicants and the system administrator.
- The system shall be accessible through a web browser.

5 Performance Requirements:

- The system shall process passport applications within 10 working days.

- The system shall allow a maximum of 10,000 concurrent users.
- The system shall have an uptime of at least 99.9%.
- The system shall have a response time of less than 3 seconds for each user request.

6 Design Constraints:

- The system shall be developed using Java programming language.
- The system shall use a MySQL database for storing and managing data.
- The system shall be developed using the Model-View-Controller (MVC) architecture.

7 Non-Functional Attributes:

- The system shall be secure and protect the privacy of the applicants' personal information.
- The system shall be scalable and able to handle an increase in the number of users.
- The system shall be reliable and robust, with a low risk of downtime or system failure.
- The system shall be easy to maintain and upgrade.

8 Preliminary Schedule and Budget:

Requirement Gathering and Analysis: 2 weeks

System Design: 4 weeks

Development and Testing: 12 weeks

Deployment and User Acceptance Testing: 2 weeks

Training and Documentation: 1 week

Total Estimated Time: 21 weeks

Budget:

Personnel: \$250,000

Hardware and software: \$100,000

Training and documentation: \$30,000

Contingency: \$50,000

Maintenance and support: \$70,000 per year

Total budget: \$500,000 (initial development and implementation) + \$70,000 per year (maintenance and support)