PASSPORT AUTOMATION SYSTEM

Software Requirement Specification(SRS)

1 Introduction:

1.1 **Purpose of this Document:** At first, main aim of why this document is necessary and what's purpose of document is explained and described

1.2 **Scope of this document** – In this, overall working and main objective of document and what value it will provide to customer is described and explained. It also includes a description of development cost and time required.

1.3 **Overview** – In this, description of product is explained. It's simply summary or overall review of product.

2 General description:

A passport automation system is a digital system designed to automate and streamline the process of issuing passports to citizens. It typically includes a database of citizen information, which can be accessed and updated by authorized government officials. It may also include online application portals, allowing citizens to apply for passports from the comfort of their homes or through designated passport offices. The system uses biometric technology, such as facial recognition and fingerprint scanning, to verify the identity of the applicant and prevent fraud.

Once an application is submitted, the system automatically checks the information provided against government databases to ensure accuracy and completeness. The system may also include an appointment scheduling feature, allowing applicants to schedule appointments for passport interviews and processing. Passport automation systems may also include features such as electronic payment processing, document scanning and verification, and automatic printing of passports once all requirements have been met.

3 Functional Requirements:

- It must authenticate the identity of the user to ensure that only authorized individuals can access the system.
- It must allow citizens to submit passport applications online, as well as validate and process the application in a timely and accurate manner.
- It must maintain a central database of citizen information.
- It must allow citizens to schedule appointments for passport interviews and processing.
- It must enable citizens to pay the required fees for passport issuance and processing and process payments securely and accurately.
- It must allow citizens to upload and scan supporting documents required for passport issuance, such as birth certificates and proof of citizenship and verify the authenticity of these documents.
- It must use biometric technology, such as facial recognition and fingerprint scanning, to verify the identity of the applicant and prevent fraud.

- It must automatically generate and print passports once all requirements have been met.

4 **Interface Requirements:**

- It must have a user-friendly interface that is easy to navigate and understand.
- It must be accessible through multiple channels, such as online portals and designated passport offices, to provide citizens with flexibility and convenience.
- It must support multiple languages.
- It must be designed to comply with accessibility requirements, such as providing alternative text for images and videos.
- It must use secure authentication protocols, such as two-factor authentication.
- It must provide clear feedback to users at every step of the application process.
- It must have a consistent design and layout to ensure that users can easily navigate and use the system.
- The system must be designed to integrate with other systems, such as border control and immigration systems.

5 **Performance Requirements:** In this, how a software system performs desired functions under specific condition is explained. It also explains required time, required memory, maximum error rate, etc.

6 **Design Constraints:** In this, constraints which simply means limitation or restriction are specified and explained for design team. Examples may include use of a particular algorithm, hardware and software limitations, etc.

7 **Non-Functional Attributes:** In this, non-functional attributes are explained that are required by software system for better performance. An example may include Security, Portability, Reliability, Reusability, Application compatibility, Data integrity, Scalability capacity, etc.

8 **Preliminary Schedule and Budget:** In this, initial version and budget of project plan are explained which include overall time duration required and overall cost required for development of project.