Software Requirement Specification(SRS) for PASSPORT

01. Introduction:

a. **Purpose of this Document:**If the entire process of 'Issue of Passport' is done in a manual manner then it would take several months for the passport to reach the applicant. Considering the fact that the number of applicants for passport is increasing every year, an Automated System becomes essential to meet the demand. So this system uses several programming and database techniques to elucidate the work involved in this process. As this is a matter of National Security, the system has been carefully verified and validated in order to satisfy it.

b. **Scope of this document** – The System provides an online interface to the user where they can fill in their personal details and submit the necessary documents (maybe by scanning). The authority concerned with the issue of passport can use this system to reduce his workload and process the application in a speedy manner. Provide a communication platform between the applicant and the administrator.

c. **Overview** – SRS includes two sections overall description and specific requirements. Overall Description will describe the major role of the system components and interconnections. Specific Requirements will describe roles & functions of the actors.

02. General description:

The PAS acts as an interface between the 'applicant' and the 'administrator'. This system tries to make the interface as simple as possible and at the same time not risking the security of data stored in. This minimizes the time duration in which the user receives the passport.

03. Functional Requirements:

a. Login: In this module, we can perform operation such as enter the user name and password. If the user name and password is correct then it can be entered into the specific web page. Otherwise re-enter the username and password at the particular time only.

b. Fill the application:When we are go to fill the application form before you can tell either apply for new passport or renewal the old passport. We can fill the application form with corresponding ID proof and address proof and then submit the form.

c. Verification of the form: After submission of the form, to the responsible authority are verified that given information is true or not and they are forwarded to local police. Local police enquiry that corresponding information is true or not. After collecting the information it will forwarded to higher authority.

d. Issue the passport:After verification and validation the passport can be issued to the applicant through the post. Then the passport can be checked and signed the post record the accepted the passport.

04. **Interface Requirements:**User Interface : User Interface must be compatible for all type web browser such as Google chrome , Safari Browser , Internet Explorer etc.

a. Software Interfaces :

Web server - Apache

Database server - MongoDB

Development end -Java , HTML , JavaScript,.CSS.

05. **Performance Requirements:** The collection of internal electronic circuits and external physical devices used in building a computer is called the Hardware. The minimum hardware requirement specifications for developing this project are as follows:

Processor : Standard processor with a speed of 1.6 GHz

RAM : 256 MB RAM or more

Hard Disk : 20 GB or more

Monitor : Standard color monitor.

06. **Design Constraints:**The following are the constraints of the Passport Automation System: The system must comply with local laws and regulations regarding data privacy and security.
The system must integrate with the hotel's existing hardware and software systems, such as the property management system and accounting software.

07. **Non-Functional Attributes:**

a. Scalability: Scalability refers to the systems' ability to perform and operate as the number of users or requests increases. It is achievable with horizontal or vertical scaling of the machine.

b. Availability: Availability is measured as a percentage of uptime and defines the proportion of time that a system is functional and working. Availability is affected by system errors, infrastructure problems, malicious attacks, and system load.

c. Extensibility: Extensibility measures the ability to extend a system and the effort required to implement the extension. The extension can occur by adding new functionality or modifying existing functionality.

d. Consistency guarantees that every read returns the most recent write. This means that after an operation executes, the data is consistent across all the nodes, and thus all clients see the same data at the same time, no matter which node they connect to

e. Resiliency: A system can gracefully handle and recover from accidental and malicious failures. Detecting failures and recovering quickly and efficiently is necessary to maintain resiliency.

08. Preliminary Schedule and Budget:

a. Preliminary Schedule:

i. Requirements gathering and analysis: 1-2 weeks
ii. System design and architecture: 2-4 weeks
iii. Development and testing: 10-16 weeks
iv. Integration and deployment: 2-4 weeks
v. Training and user acceptance testing: 2-4 weeks
vi. Total: 17-30 weeks (approximately 4-7 months)

b. Preliminary Budget:

i. Requirements gathering and analysis: $5,000 - $10,000
ii. System design and architecture: $10,000 - $20,000
iii. Development and testing: $50,000 - $100,000
iv. Integration and deployment: $10,000 - $20,000
v. Training and user acceptance testing: $5,000 - $10,000
vi.
vii. Total: $80,000 - $160,000 (approximately)