

PASSPORT AUTOMATION SYSTEM

1. INTRODUCTION :

Passport Automation System is an interface between the Applicant and the Authority responsible for the Issue of Passport. It aims at improving the efficiency in the Issue of Passports and reduces the complexities involved in it to the maximum possible extent.

1.1 PURPOSE :

If the entire process of 'Issue of Passport' is done manually then it would take several months for the passport to reach the applicant. Because the number of applicants for a 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 to satisfy it.

1.2 SCOPE:

- The System provides an online interface to the user where they can fill in their personal details and submit the necessary documents.
- The authority concerned with the issue of passports can use this system to reduce his workload and process the application in a faster manner.
- The System provides a communication platform between the applicant and the administrator.
- Transfer of data between the Passport Issuing Authority and the Local Police for verification of applicant's information is made easier with this system.
- Users/Applicants will come to know the status of the application and the date on which they must subject themselves to manual document verification.

1.3 DEFINITIONS, ACRONYMS, AND ABBREVIATIONS:

- **Administrator**
The superuser is the Central Authority with the privilege to manage the entire system. It can be any higher official in the Regional Passport Office of Ministry of External Affairs.
- **Applicant**
The person who wishes to obtain the Passport.
- **PAS**
Refers to this Passport Automation System.
- **HTML**
Markup Language used for creating web pages.
- **HTTP**
HyperText Transfer Protocol.
- **TCP/IP**
Transmission Control Protocol/Internet Protocol is the communication protocol used to connect hosts on the Internet.

1.4 REFERENCES:

IEEE Software Requirement Specification format.

1.5 TECHNOLOGIES TO BE USED:

- HTML
- CSS
- JAVASCRIPT
- REACT JS
- DJANGO
- REST API

1.6 TOOLS TO BE USED:

- VISUAL STUDIO CODE IDE (Integrated Development Environment)
- STARUML TOOL (for developing UML Patterns)

1.7 OVERVIEW:

SRS includes two sections overall description and specific requirements

- **Overall Description** will describe the major role of the system components and interconnections and their connectivity.
- **Specific Requirements** will describe the roles and functions of the actors.

2.0 OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE:

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 the system. This System minimizes the time duration in which the user receives the passport.

2.2 SOFTWARE INTERFACE:

- **Front End Client** - The applicant and Administrator online interface is built using REACT JS.
- **Back End** – DJANGO is used for the backend.
- **Database** – SQLite database is used.

2.3 HARDWARE INTERFACE:

The server is directly connected to the client systems. The client systems have access to the database in the server.

2.4 SYSTEM FUNCTIONS:

- Secure Registration of information by the Applicants.
- Schedule the applicants an appointment for manual verification of original documents.
- Panel for Passport Application Status Display by the Administrator.
- E-Mail updates to the applicants by the administrator.
- The administrator can generate reports from the information and is the only authorized personnel to add the eligible application information to the database.

2.5 USER CHARACTERISTICS:

- **Applicant**

These are the person who desires to obtain the passport and submit the information to the database.

- **Administrator**

He has certain privileges to add the passport status and to approve the issue of passport. He may contain a group of persons under him to verify the documents and give suggestions on whether or not to approve the dispatch of the passport.

- **Police**

He is the person who upon receiving intimation from the PAS, performs a personal verification of the applicant and sees if he has any criminal case against him before or at present. He has been vetoed with the power to decline an application by suggesting it to the Administrator if he finds any discrepancy with the applicant. He communicates via this PAS.

2.6 CONSTRAINTS:

- The applicants require a computer to submit their information.
- Although security is given high importance, there is always a chance of intrusion in the web world which requires constant monitoring.
- The user has to be careful while submitting the information. Much care is required.

2.7 ASSUMPTIONS AND DEPENDENCIES:

- The Applicants and Administrator must have basic knowledge of computers and English Language.

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