

SOFTWARE REQUIREMENTS SPECIFICATION

Passport Management System

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1. Introduction:

1.1 Purpose:

The project on Passport Management System is to provide an online pavement for the applicant who needs passport and apply passport through online and maintain the applicant details with maximum security.

1.2 Scope:

The project allows applicant to fill out all the details and upload documents and authority and police to verify the applicant's details and update the status of the application.

1.3 Definition, Acronyms and Abbreviations:

PMS - Passport Management System.

GUT - Graphical User Interface.

1.4 Reference:

1. <https://www.geeksforgeeks.org>.
2. <https://www.wikipedia.org>.
3. <https://www.guru99.com>

1.5 Overview:

The System provides a pathways to apply for passport without wasting time and travel cost through online mode. The proposed system can be used by any applicant / user with basic knowledge about computer and an internet facility and does not require any specific educational level, technical expertise in computer field or experience.

2. Overall Description:

The PMS allows authority to view all details of the applicant and documents and they have the government databases, authority verifies both details and ensures that he is not a criminal or a deceased or a person of different origin. The police verifies the person in person for his/her existence and once verified, then he updates the status of the application. After every update status a notification is sent to both the applicant's mail and mobile. After police verification the authority issues passport and the applicant collects the passport.

2.1 Product Perspective:

The product is the applicant who wants to apply passport through online. In this pandemic situation who can't travel to get passport can opt for this system.

2.2 Software Specification:

Software requirements includes:

1. Operating system: Windows 8 or latest versions with good internet facility.
2. JAVA development toolkit.

2.3 Hardware Specification:

1. processor: Dual core.
2. RAM: 2GB and more.
3. Hard disk: 250GB or more.
4. NIC: Must for each party.

2.4 Communication Interfaces:

Applicant will be using a web browser to access the PMS through HTTP/HTTPS.

Authority will be also using a web browser to access the PMS through HTTP | HTTPS protocol.

2.5 Constraints:

- 1) Govt is only in English.
- 2) username and password must be required for applicant, authority and also police to gain login access.
- 3) only registered users have special privileges for accessing applicant details and updating status.

2.6. Product Functions:

- 1) The actors of PMS are Applicant, Authority and local police.
- 2) They all must be provided with the following functionalities.
 - 1) Applicant must be able to upload documents and enter form details and view status of application.
 - 2) Authority must be able to view all applicant details and check the details with government's databases.
 - 3) Police must be able to view applicant details and modify only status of the application.

3. Specific Requirements :-

3.1 Functional requirements :-

3.1.1 Applicant:

1. ID : AP1
Title: Fill form
Description: Fill all the details of the applicant and upload documents.

2. ID: AP2
Title: check status
Description: Check the status of the application to proceed to next step or not.

3.1.2 Authority:

1. ID: AU1

Title: Authenticate details.

Description: Authority authenticates the details of applicant with the government's database.

2. ID: AU2

Title: update status.

Description: Authority update the status of the application after the verification is successful.

3. ID: AU3

Title: Issue pass port.

Description: After the valid verification done and status of the applicant is updated by police, authority issues pass port.

3.1.3 Police:-

1. ID: P1

Title: Validate applicant.

Description: Police visits the applicant in person for verification and existence of the applicant.

2. ID: P2

Title: update status.

Description: After verifying the existence of applicant, police update the status of the applicant.

3.2 Non-functional Requirements:

3.2.1 Security:

1) The applicant details are encrypted and stored securely.

2) Any unusual traffic/activity if found, the account will be deactivated and activated only after several investigation.

3.2.2 Availability:

The PMS must be available for 24x7 - no down time. The applicant must have internet facility to access PMS.

3.2.3 Efficiency:

1) ~~use~~^{PMS} must be robust in nature. No downtime. If any failure occurs, it must have fault tolerance facility.

2)

3.2.4 Performance

1) Regularly PMS should be updated, so that the existing bugs are removed.

2) Any issue for applicant should be answered within an hour.

3.2.5 Supportability:

1) Supports on any OS, if internet is available.

2) Latest versions of browsers is preferable.

3) Better GUI to comfort user and if any important requirement, should be updates.

3.3 Performance requirement.

In order to maintain an acceptable speed at maximum number of uploads allowed from a particular applicants as the size is fixed.

The Server should be available 24x7 (all time)

3.4 Technical Issues.

1) The system will work on client server architecture.

2) It will require an internet and a browser which has latest version preferably.