I. Passport Automation System

1. Introduction:

a. Purpose:

It is to specify the functional and non-functional requirements for a passport automation system. It is intended to automate the process of applying for verifying and issuing passports.

b. Document Convention:

Bold texts are used for section handling & interface. Bulleted lists are used for listing actions, options or steps.

c. Intended Audience & Reading Suggestion:

Project managers understand the project scope, deliverables and system constraints. Software developers to design, implement and integrate the system components.

d. Scope:

It is a web-based application for applicants and officials. It includes online application submission, appointment scheduling, document verification.

e. References.
  IEEE Std 830-1998. IEEE Recommended practi[ce]
  for software requirements specifications.

2. Overall Description:
  a. Product Perspective:
     It is a self-contained system, but it may
     interact with external databases and verification
     systems.

  b. Product Functions:
     User registration and login, application form
     submission, document upload, payment integration,
     appointment scheduling.

  c. User classes and Characteristics:
     Applicant - basic knowledge of computers, general
     users. Admin/Verifier - government officials,
     moderate to a advance users.

  d. Operator environment:
     - web-based system.
     - compatible with major browsers
     - Database: MySQL

e. Design and Implementation:
Must comply with government security standards.
All communications must be encrypted. Must be
scalable to handle high traffic.

f. Assumption & Dependencies:
users have access to the internet.
Government ID systems are available for
verification.

3. Specific Requirements:

a. Functional Requirement:
the system shall allow users to create an
account using email/phone verification. the
system shall allow users to fill out and
submit a passport application form.

b. Non-functional requirements:
the system shall ensure data privacy and
comply with local laws. the system shall
support 10,000 concurrent users. All user
data shall be encrypted in transit and rest.

c. External Interface Requirement:
web interfaces with form inputs, file upload
components, and dashboard.

d. Appendices:
sample passport application form. Integration wi...
accounting software. AI-based demand forecas...

e. Preliminary and budget:
week 1-2 : requirements gathering + system design...
3-5 - development of application submission +
      tracking modules.
6-7 - development of verification interface +
      administrative dashboards.
8 → testing + bug fixing
9 → user acceptance testing + deployment
10 → deployment + ongoing support.

estimated budget : 40 lakhs app., including
development , security compilance +
deployment.