PASSPORT AUTOMATION SYSTEM (PAS)

- **Problem Statement** - The current passport application process is manual, time-consuming, & error-prone. Applicants often face long queues, repeated office visits, & delays due to manual verification & documentation errors. There is also limited transparency, as applicants cannot easily track their app. status. This results in user-dissatisfaction, inefficiency & increased workload for passport officers.

① **Purpose :-** The System ensures :
- **User Convenience :-** Citizens can apply for a passport online, upload documents, schedule appointments.
- **Efficiency :-** Automates verification, police clearance requests & approval workflows to reduce processing time.
- **Security :** - Ensures secure handling of personal data using encryption, authentication & gov-approved standards.
- **Transparency :** - Provides real-time updates & notification (SMS/email) about the status of the application.
- **Integration & error reduction**

② **Scope :-** The passport automation System
- allow citizens to apply online, upload documents, & Schedule appointments.
- automate document verification & link with national ID databases.
- Request & track police verification automatically.

- Provide real-time application status updates to applicants.
- Generate passports electronically after successful verification & approval.
- Ensure security & compliance with gov. regulations.

③ <u>Overview</u> :- ① <u>User-Interface</u>: web & mobile portals for applicants.

② <u>Application Processing Module</u>: For online background checks.

③ <u>Police Verfication Module</u>: for online background checks.

④ <u>Notification System</u>: For SMS/email updates.

⑤ <u>Database & Security</u>: Centralized, encrypted data storage.

④ <u>General Description</u> :- [User] • <u>Applicants</u>: Apply for a new passport or renew an existing one, upload documents & track status.

- <u>Passport Officers</u>: Verify document, approve/reject applications & oversee the process.
- <u>Police Department</u>: Perform background verification & update the system.
- <u>System Administrators</u>: Maintain system integrity & ensure security.

⑤ <u>Functional Requirements</u> :- Allow citizens to register & log in securely.

- — Enable online form submission & doc. upload.
- — Provide appointment booking system.
- — Automate verification with national databases.

- Facilitate police verification process.
- Provide real-time app. tracking.
- Notify users about progress via SMS/email.

(6) **Non-Functional Requirements :-**
- Performance : must handle at least 10,000 concurrent users.
- Security : Encrypt all sensitive data.
- Reliability : 99.9% uptime for critical services.
- Usability : Mobile - friendly, simple interface.
- Scalability : Support nation-wide expansion.

(7) **Interface Req :-** • User Interface : web + mobile - friendly dashboards for applicant + officers.
- External Interfaces : Integration with national ID, police + immigration system.
- Hardware Interface.

(8) **Performance Req :-** Application processing must be completed within 2 weeks.
- System should respond to user queries within 2 sec.
- Notification delays must not exceed 5 minutes

(9) **Design Constraints** • must comply with government security policies + data privacy claues.

- Should support multiple languages for accessibility.
- Should work in low-bandwidth environments.

(10) <u>Schedule & Budget</u> :- Schedule ~ 9 months
- Estimated Budget ~ $ 300000 (approx)