5. Passport Automation System

Software Specification System

5   Passport Automation System

1. Introduction
1.1 Purpose: Automate the passport application process from submission to issuance.
1.2 Scope: Simplify passport application and verification process.
1.3 Overview: Provides an automated system for passport application verification and issuance.

2. General Description
- Users: Applicants, government officials.
- Benefits: Faster processing, reduced manual errors.

3. Functional requirements
- Online application form submission
- Document verification and approval
- Appointment Scheduling.

4. Interface Requirements
- Application Status updates in realtime.
- Supports thousands of concurrent applications.
- Integration with national databases
- Web portal for applicants to track status.

5. Performance Requirements
- Application Status updates in Real-time
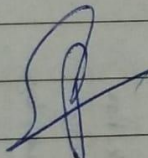- Supports thousands of concurrent application.

6. Design Constraints
· Must Comply with government Security and privacy Standards

7. Non-Functional Requirements
· Security: High-level encryption for sensitive information
· Reliability: System must be available 24/7 for application
· Scalability: Handle large numbers of applicants.

8. Budget Estimate
· Time: 7 months
· Cost: $130,000 - $150,000

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Class Diagram:

Applicant
+name: string
+email: string
+phone: string
+address: string
+educational_details: string
+login()
+register()
+search()

+applies

Passport Agency
+user_id: int
+login_status: str
+pid: int
+branch: string
+verify()
+enter_details()

Passport Authority Management
+product_id: int
+name: string
+description: string
+head_office: string
+display()
+get_details()

0..1

+applies

Application Status
+id: int
+name: str
+status: str
+get_status()
+display_status()

1..*

Other Dept
+user_id: int
+dept_name: str
+get_user_details()

1   1

FresherApplicant
+id: int
+date_added: timestamp
+add_details()
+remove_item()
+display()

Renewal Application
+old_id: int
+new_id: int
+date: timestamp
+name: string
+status: string
+add_details()
+remove_details()
+display_details()

Admin Authentication
+username: str
+password: str
+create_category()
+create_dept()
+update_product()
+remove_dept()
+remove_product()

0..*

Police Verification Dept
+order_id: int
+station no.: int
+area: string
+verify_details()
+submit_details()
+get_details()

1..*

Certificate Verification Dept
+name: string
+originals: string
+photocopies
+total: int
+get_details()
+verify_details()

«enumeration»
Passport Status
Valid
Expired
Suspended
Cancelled
Lost