PASSPORT AUTOMATION SYSTEM

SOFTWARE REQUIREMENTS SPECIFICATION

Page

SOFTWARE REQUIREMENTS SPECIFICATIONS
FOR PASSPORT AUTOMATION SYSTEM

1. Introduction :

1.1 Purpose of this document : This document defines the software requirements for a Passport automation system. It serves as the foundation for the system's design and development, ensuring all stakeholders have a common understanding of the system's capabilities and constraints.

1.2 Scope of this document : This document encompasses functional and non-functional requirements of the PAS, including requirements for user interfaces, system functions, performance, security and external interfaces. It will not address specific hardware specs, network infrastructure details or deployment procedures.

1.3 Overview : This PAS aims to modernize and streamline the process of applying for and issuing passports. The system will provide citizens with an online (payment) platform to submit applications, upload documents, schedule appointments, and track their application status. The system's primary objectives are to : Reduce application processing time, minimize

manual errors and improve accuracy. Enhance security and prevent fraud, increase transparency for applicants.

2. General Description

2.1 User Objectives:
- Citizens:
→ Apply for new passports, renewals, and lost or damaged passport replacements entirely online
→ Upload supporting documents securely
→ Schedule appointments, online payments, track the status conveniently.
- Government Officials:
→ Access and review, verify applicant data & uploaded documents, schedule and manage appointments.
→ Capture biometric data

2.2 User Characteristics:
- Citizens: A wide range of citizens with varying degrees of computer literacy will use this system. The system's design should be user-friendly and intuitive.

2.3 System Features:
- Application Portal: Online registration, account creation, electronic application forms for new passports, renewals, and replacements.
- Passport Office Dashboard: Secure login, application queue management, document verification features, reporting and analytics dashboard.

2.4 System Benefits:
- Increased efficiency
- Reduced Errors
- Enhanced Security
- Improved Transparency
- Cost Reduction
- Improved accessibility

3. Functional Requirements:

3.1 Applicant Registration and authentication: Create secure accounts with unique usernames & passwords
3.2 Application submission
3.3 Document Upload and verification.
3.4 Appointment scheduling
3.5 Fee payment
3.6 Application status tracking

4. Interface Requirements:

4.1 External Systems: A secure payment gateway for processing online payments.

5. Performance Requirements
- Response time
- Data processing
- Capacity

6. Design Constraints
- Technology Stack: Developed using a modern web application framework and a RDMS.
- Operating System: The system be platform-independent.

7. Non-functional attributes:
- Security
- Usability
- Reliability
- Maintainability
- Scability

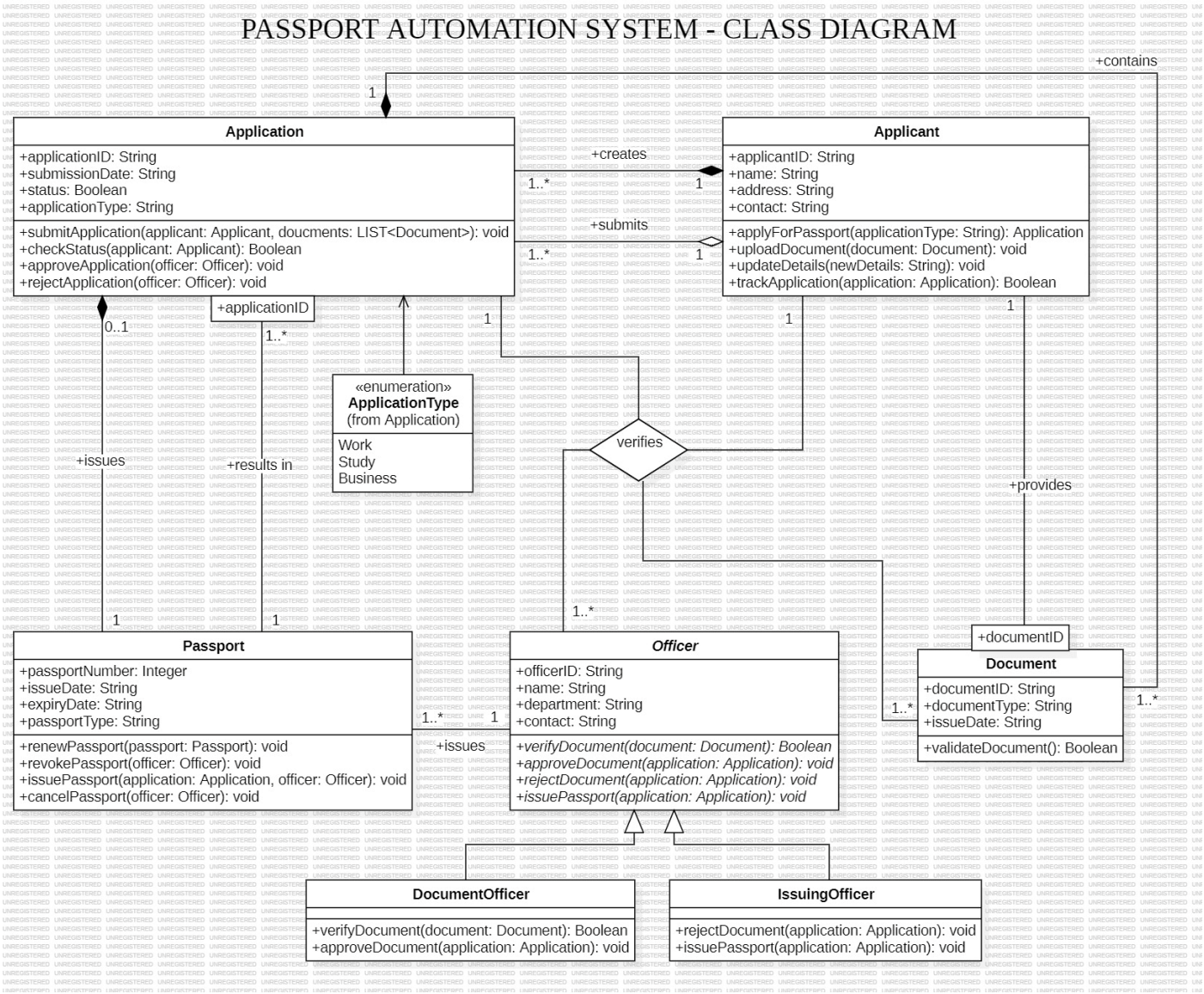
8 Preliminary Schedule and Budget:

8.1 Schedule: The project is estimated its take 5 months
→ Requirement gathering (2 weeks)
→ Design phase (1 month)
→ Development phase (2 months)
→ Testing phase (1 month)
→ Deployment and training (2 weeks)
→ Post-deployment support (2 weeks)

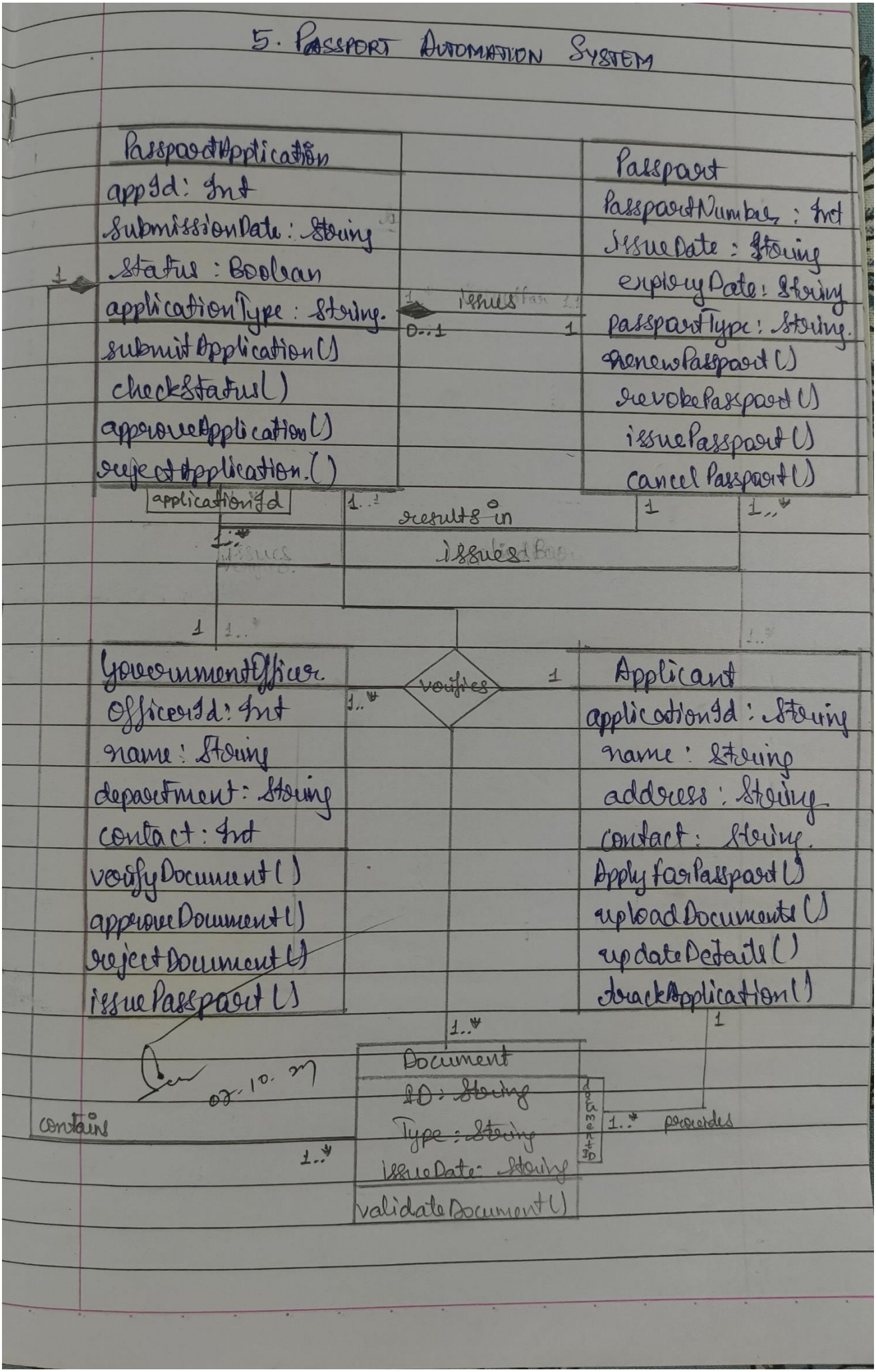
8.2 Budget: Total estimated budget is $3,000:
- Requirement gathering: $500
- Design phase: $700
- Development phase: $1000
- Testing phase: $400
- Deployment and training: $200
- Post-deployment support: $200

UML DIAGRAMS

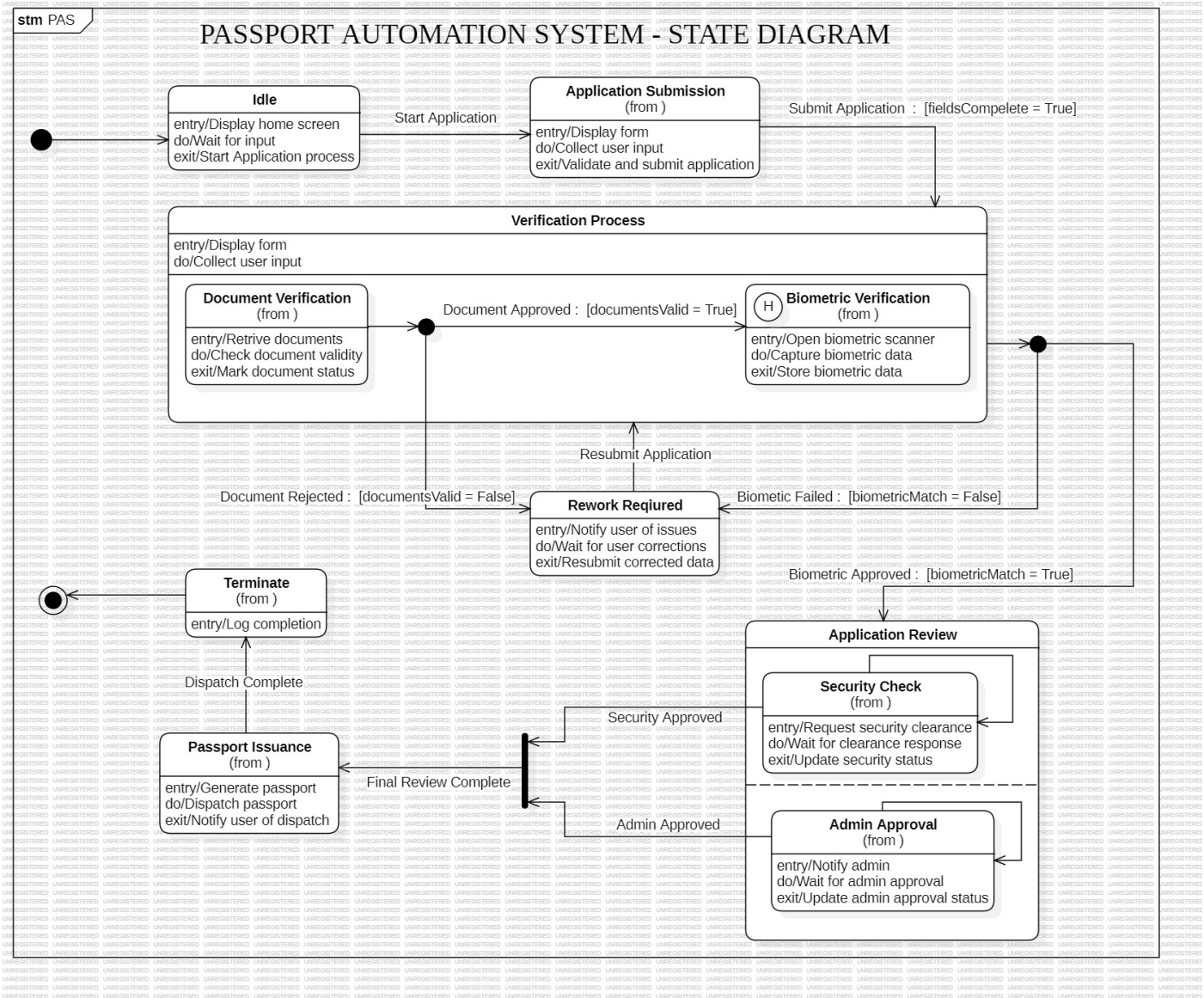
CLASS DIAGRAM



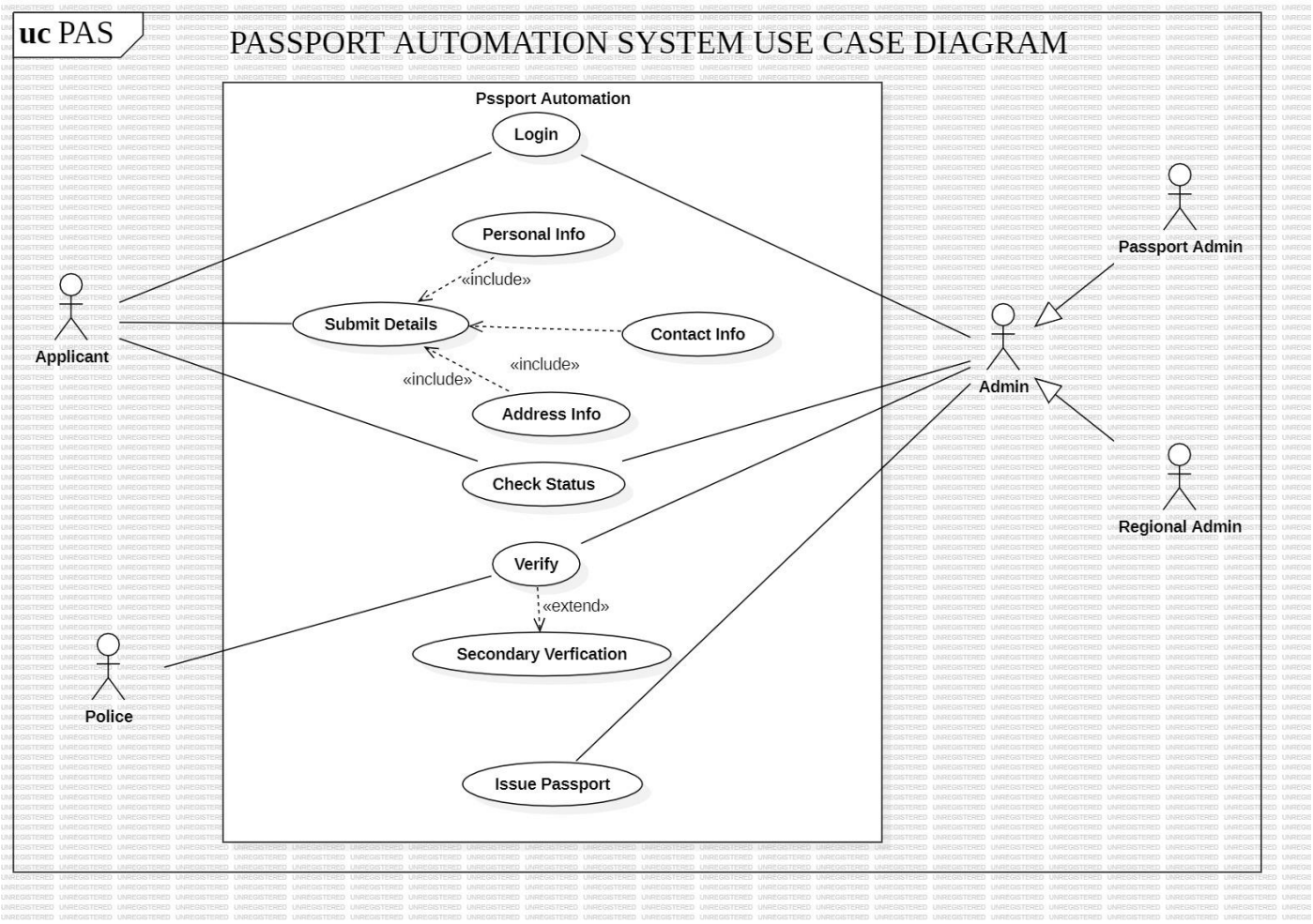
5. Passport Automation System



STATE DIAGRAM



USE CASE DIAGRAM



SEQUENCE DIAGRAM

ACTIVITY DIAGRAM