

HAB - 1

I. Hotel Management System

Problem statement : The hotel management system aims to streamline operations by automating tasks such as reservation management, guest check-in / check-out, room assignment, billing, and reporting. It will address the need for efficient management of resources, ensures smooth day to day operations in hotels.

1. Introduction :

1.1 Purpose of this document : The main aim of the document is to summarise the requirements & specifications of a Hotel Management system. It acts as a guide to the development team & outlines functionalities, objectives & constraints.

1.2 Scope of Document : Describes the functions such as reservation management, billing, guest services and inventory.

1.3 Overview : The system is designed to stream-line various hotel operations such as reservations management, guest check-in/out, room service, etc.

2. General Description:

The hotel management system will cater to the needs of hotel staff & guests providing intuitive interfaces. It will include features such as

- Reservation Management : Allows guests to make reservations online or in person.

quickly & efficiently

- Guest services: provides check-in & check-out functionalities, services, etc.
- Billing: generate invoices, process payments.

Interface

3. Functional requirements:

- Integration with payment gateways
- Intuitive booking interfaces

4. Functional requirements:

- Allow guests to make online reservations
- Manage room availability
- Generate invoices, process payments

5. Performance Requirements

- Should be able to handle high traffic.
- Response time should be minimal
- System should be reliable.

6. Design constraints:

- System should comply with industry standards
- system should be compatible w/ current software & hardware

7. Non-Functional attribute

- Security
- Scalability
- Portability
- Reliability

8.

Preliminary Schedule & Budget

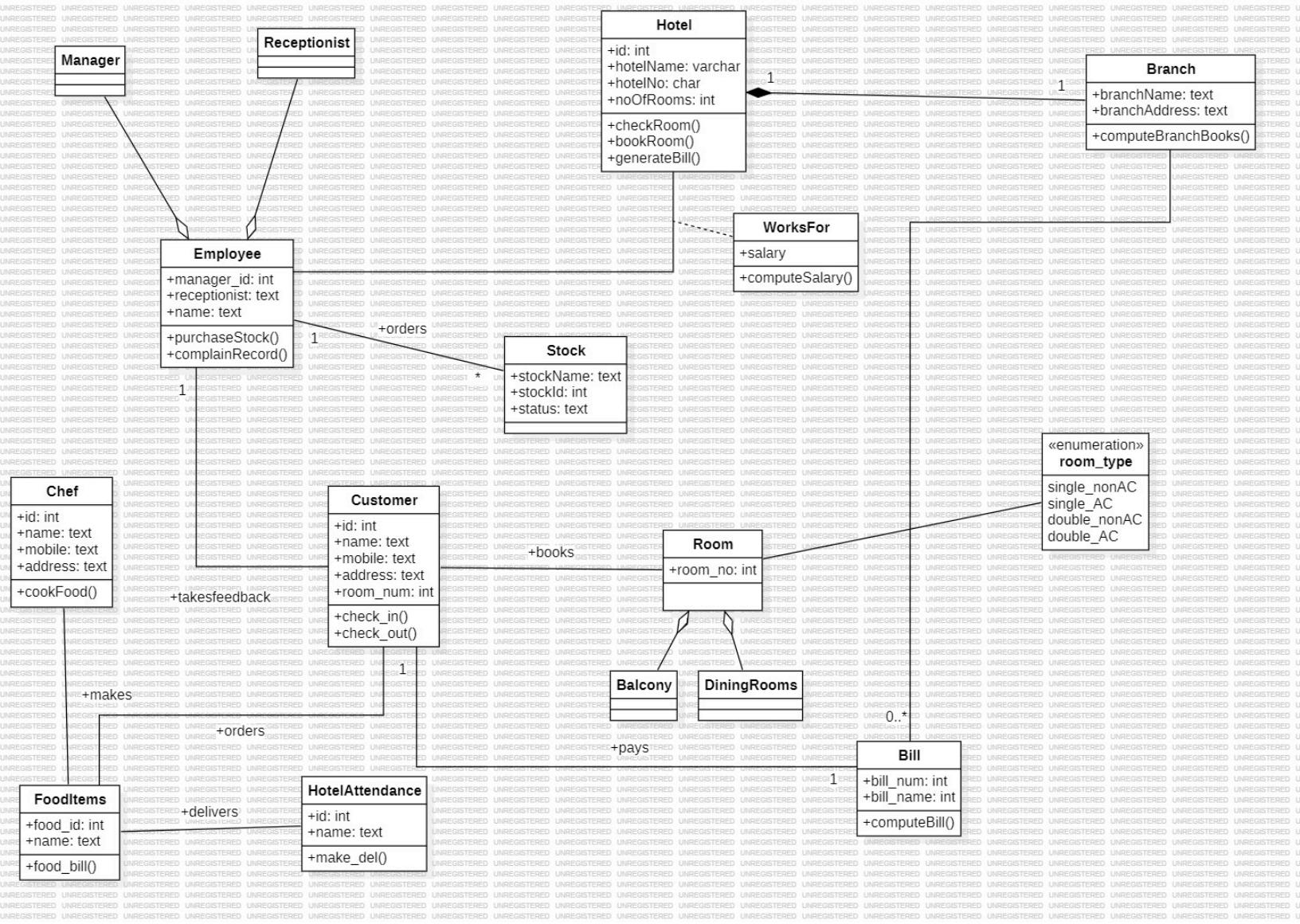
- Development timeline: 6 months
- Estimated budget: ₹1,00,000.

Manager

+ name: string

+ id: int

+ phone no:



II Credit Card Processing System

Problem Statement: The credit card processing system seeks to provide a secure, efficient, and reliable platform for merchants to accept electronic payments from customers. It addresses the challenge of facilitating secure transactions while adhering to stringent security standards, minimizing fraud risks, and ensuring timely processing of payments across various channels.

1. Introduction:

1.1 Purpose: Outline the specs & reqs of development of credit card processing system.

1.2 Scope of the Document: Overall work & objective of credit card processing system.

1.3. Overview

The credit card processing system is designed to facilitate the processing of transactions securely & efficiently.

Centralized platform for merchants to accept payment through cards

2. General Description:

- Authorization of credit card transaction in real time
- Settlement of transaction, funds & receipts
- Management of accounts, payment methods
- Payment gateways, merchant service providers

3. Functional Requirements:

Authorization: Validate info, card no, date, CV, transactions

Customer Management: Registration of new customers, update.

Integration: Payment gateways compatibility with credit cards, debit cards, UPI

4. Interface Requirements:

- User interface: Initiate & manage transactions, secure login & authentication.
- System interfaces: external payment gateway, secure communication protocols

5. Performance Requirements:

- Response time: Quick, minimal downtime, scalable architecture.
- Reliability: Reliable transaction, fault tolerance

6. Design Constraints:

Security: Encryption, compliance with PCI DSS

compliance: Regulatory requirements, regular audits.

7. Non functional attributes:

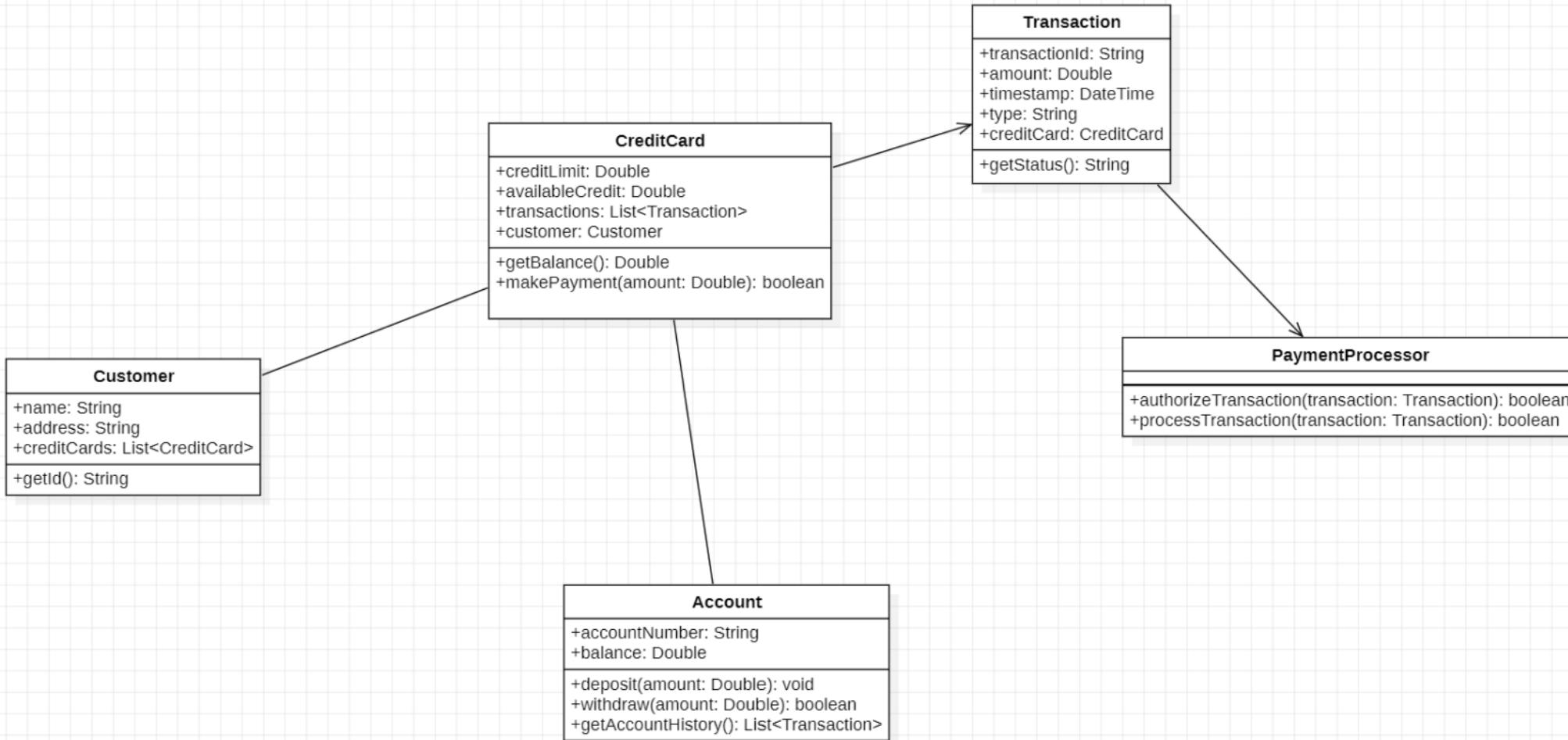
Scalability: Scale credit card processing system for growth in transaction adapt to changing business needs.

Portability: Compatibility with different OS, cloud deployment options for flexibility

8.

Preliminary Schedules & Budget

- Estimated timeline: 9 months
- Budget: £500,000



III Library Management System.

Problem Statement: The library management system aims to modernize and optimize library operation by automating tasks such as book cataloging, member management, circulation and inventory control. It addresses the need for efficient resource utilization, improved access to information, and streamlined administrative processes in libraries.

1. Introduction :

1.1 Purpose : The document outlines the requirements & specifications of a library Management system. It acts as a guide to the developers & outlining functionalities, objectives & constraints

1.2 Scope of the document : The document of a comprehensive library Management system including catalog, circulation, member management & reporting functionalities

1.3 Overview : The system is designed to streamline operations such as books acquisition, cataloging, circulation, etc.

2. General Description:

- well cater to the needs of librarians & patrons
- Some features are:
 - o Cataloging : allows librarians to catalog books media including metadata

- Circulation: Facilitate borrowing & returning of library materials.
- Patron Management: Maintain patron records such as registration & borrowing history.
- Reporting: Generating regular periodic reports.

3. Functional Requirements

User Interface: UI & how info is presented to the users.

Library user Act Management System

- Display act info, user ID, name, positioning privilege, uses a GUI which allows librarians to change the info.

Book Borrowing System: Check out books, show book borrowing info

Book records: List of available books: ISBN, title

4. Interface Requirements

User interface: intuitive interface for librarians & patrons

Book detail view: Display of book info, options & summaries, reviews.

User profile: user friendly interfaces for reg, login, access to history.

Notifications: System for alerts on overdue books

recommendations

5. Performance Requirements:

- Response time: Check in & check out in less than 5 secs
- Search function in less than 1 second

6. Design constraints

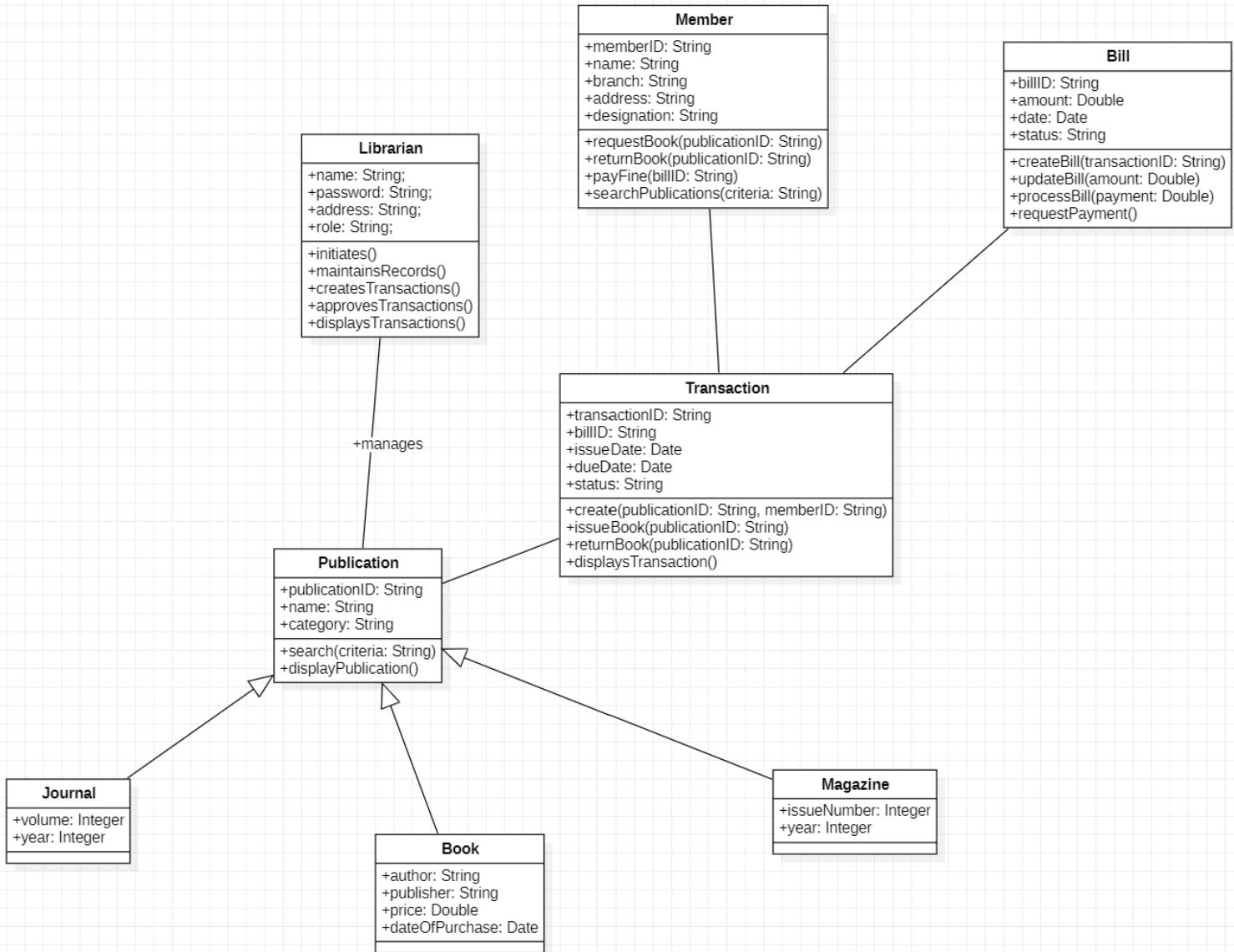
- Each user has an ID used for book issuing, fine payment, etc.
- Compatibility w/ multiple platforms & databases
- Scalability to accommodate growth, adhering to security standards, accessibility for all users

7. Non-functional Requirements:

- Minimal latency, reliability to operate w/o crashes or errors, user friendly interface

8. Preliminary Budget

- costs for development, infrastructure, maintenance, training, integration, security



PASSPORT AUTOMATION SYSTEM.

1. Introduction Problem Statement

The passport automation system seeks to revolutionize the passport issuance process by digitizing and streamlining application submission, verification, and approval procedures. It addresses the challenge of long wait times, manual data entry errors, and bureaucratic inefficiencies in passport issuance, aiming to enhance the overall experience for applicants & government authorities alike.

1A Introduction:

1.1 Purpose of the document

- To define specifications & reqs for the development of passport automation system such that all users have a seamless experience.

1.2. Scope of the document.

- Provides an online interface for users to submit documents for issuing of passport
- communication platform b/w applicant & admin users can know status of an application.

1.3 Overview

- SRS includes overall description & specific reqs to define a PAS with roles & functions

2. General Description.

- PAS is an interface b/w applicant & admin system makes easy interface & data security

3. Functional Requirements.

- User registration: Unique ID, individual & family acc.
- Appln submission: e-submission, validation
- Appln processing: review, verify
- Appointment scheduling: time slots

4. Interface Requirements:

- User Interface: S/w interface, front end client web servers, back end
- Hardware Interface: Server is connected to client system integration w/ payment gateways

5. Performance requirements

- Secure, reliable registrations
- Availability of time slots for scheduling apps
- Verification of documents

6. Design constraints

- computer is required for submission
- chance of intrusion
- user must be careful before submitting

7. Non-functional attributes:

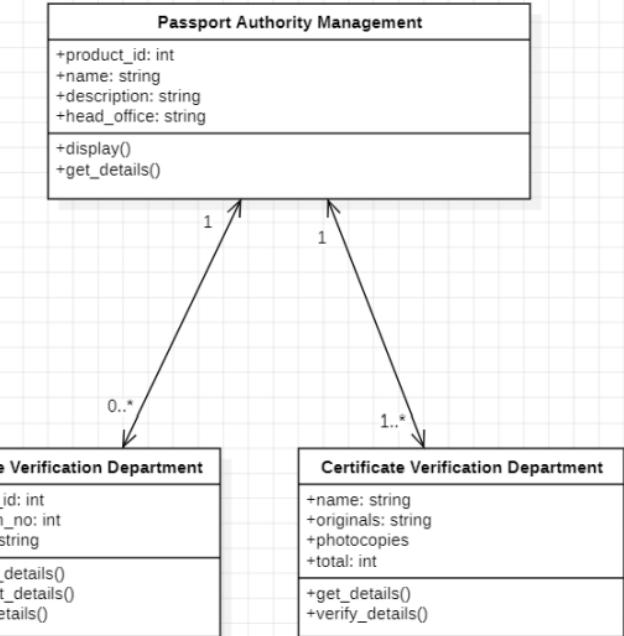
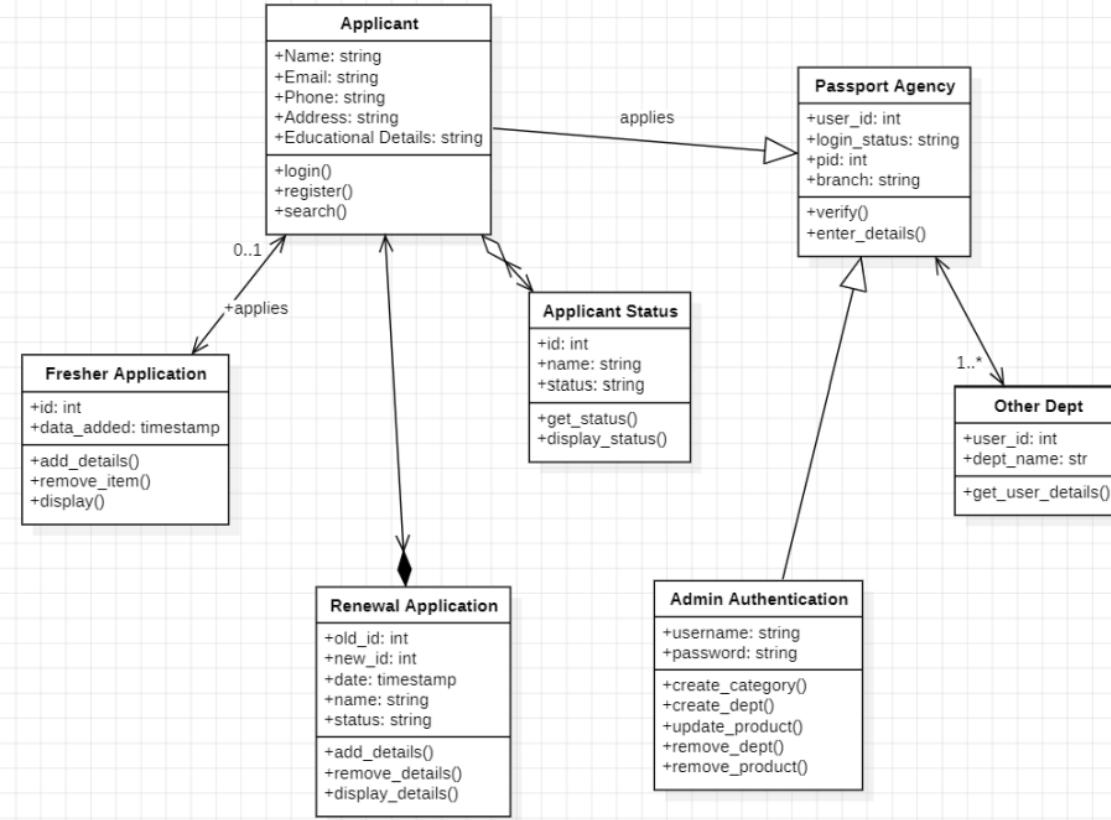
- Security: Robust authentication, encryption
- Reliability: Backup & recovery mechanisms

• Usability: Intuitive interface, clear error msgs

8. Preliminary Schedule & Budget:

Development time 6 months

Budget: ₹ 6,00,000



STOCK MAINTENANCE SYSTEM.

1. Introduction.

1.1 Purpose of the document

- To describe the requirements involved in developing stock maintenance system

1.2. Scope of the document:

- Describes the overall working & objectives of the SMS. This system will allow admin to manage & update stock.
- Outlines the values provided to users & stakeholders, management of stock inventory

1.3 Overview

- The SMS is designed to facilitate the management of stock inventory for business.
- It provides functionalities for stock entry, stock tracking, stock movement, reporting ensuring timely management of stock levels.

2. General Description:

- The SMS facilitates the following functions stock entry, stock tracking, movements, reporting.

3. Functional Requirements:

- Internet oriented, using an online server system shall have product details, supplier details, sales details, purchase details. customer login, sales process. Allows manager to view &

Print product details, customer & supplier
details

4. Interface Requirements:

System Interfaces: Barcode Scanners,
stock entry & tracking compatibility w/ ext
systems.

5. Performance requirements:

Response time: Quick response for stock

Related queries, minimal downtime.

Scalability: handle large volume of stock
items & transactions

6. Design constraints:

- Platform compatibility with versions,
web browser compliance with industry standards
for storage security.

Hardware limitations: optimization for desktop
& mobile devices.

7. Non functional attributes:

Security: access control & encryption

Reliability: Reliability, backup, recovery

Performance: Handle concurrent user &
large datasets

8. Preliminary Schedule & Budget:

- Estimated time of development: 4 months

- Estimated budget: ₹ 4,00,000

