Hotel Management System
SRS document

- Introduction
- ~~purpose~~ purpose

The HMS is designed to automate hotel operations, focusing on online reservation, customer service. Its purpose is to provide an efficient, secure & user friendly platform. The scope covers customers receptionist, and manages ensuring streamlined and data managents.

- Scope

HMS includes customes booking and payments, receptionist books and manager see reports and details on their stats. It will run on windows, ~~using~~ include 10GB storage, English-only support, and a simple design because of budget.

- Overview: HMS make hotel m

Main Feature

- Register and log in.
- check room availability and book or cancel.
- receptionist updates booking & answers queries
- Manager checks reports and edits room info.
- online card payments

~~Constraints~~ :

The system works on all browsers responds in seconds keeps data secure & makes backups every hour. It can handle 10,000 users & 20 peak bookings.

interface & performance

supports chrome, firefox & IE. Data updates within 2's, queries within 5 minutes.

Non functional attributes:

Ensure security, hourly backup, errors recovery etc.

Schedule & badge

Development follows designs, build test and deployment phases, Ex: Serving as a functional badge in hotel management.

② :- Credit Card processing :-

introduction.

This sys is designed to handle credit card payments securely & quickly. The purpose is to complete secure transaction between 2 product users.

Scope :-

covers card regonition, payment approval, transaction history, reporting. The system provide fast, safe & reliable service.

General desc :-

User include customers, merchant, and bank. The system uses secure servers, encryption on web & mobile platforms.

Functional requirements.

- Validate card details.
- process payment & refunds.
- Generate transaction reports.
- Support credit / debit payment.

Interface req :-

Support web, mobile app, & merchant pos devices connects w/ bank & services.

Performance req :

transaction in 3 secs.

Non functional req :-

secure, reliable, scalable.

Preliminary schedule & budget.-

development follows design, coding, testing, launching phases

STOCK MAINTAINANCE SYSTEM :-

Introduction

Purpose :-

The purpose of the stock maintenance system (SMS) is to track & manage stock items in a business or warehouse. It will help reduce manual work, prevent stock shortages or overstocking & provide accurate reports for decision-making.

Scope :-

The system will :-

- Allow admin to add, update
- Track stock levels.
- Generate alerts for low stocks
- Provide sales & purchase records.
- Generate reports for inventory status.

Overview :-

The system will be used by Admins & staff, Admin can manage stock records, while staff can updates stock usage & check availability. The system ensures that stock is always up to date.

2) General description :-

Users :- Admin, Staff, customers.

Environment : Web-based.

Dependencies : Requires Internet

Assumptions : Each stock item is uniquely identified.

3) Functional requirements :

1) User Authentication
2) Stock management
3) Stock monitoring
4) Reporting
5) Search & Filter.

4) Interface requirements

- User Interface
- Hardware Interface
  - → computer / mobile with internet access.
- Software Interface :-
  - → Backend
  - → Database
  - → Frontend.

5) Performance Requirements :

→ Should support multiple users updating stock at the same time.
→ Must process stock updates instantly.
→ Should handle at least 10,000 stock items in database

6) Design constraints :-

→ Works only with valid login credentials
→ Must comply with company's IT security

7) Non-Functional Attributes :-

- security
- Usability
- Reliability

8) Preliminary Schedule & Budget :-

10 weeks ₹3,00,000

PASSPORT AUTOMATION SYSTEM:-

Introduction:-

1.1 Purpose:-

The purpose of passport Automation system is to simplify & automate the process of applying for renewing, & managing passports.

1.2 Scope:-

The system will:-

→ Allows users to apply for a new passport.
→ Provide forms for intering personal details.
→ Enable admin to verify applications
→ Allow applicants to track their application status.

Overview:-

The system has two main use:-

· Applicant:-
· Admin / Passport officer:-

2) General Description:-

·) Users: Applicants, Passport officers
) Environment: web-based application with secure database
) Dependencies:- Requires internet access.
) Assumptions:- Applicants must provide valid personal info & supporting documents.

3) Functional requirements:

1) User Authentication
2) Application Mangement
3) Appointment Scheduling
4) Status tracking

4) Interface Requirements

·) User Interface:-
→ Applicant dashboard
→ Admin dashboard
·) Hardware Interface
→ Computers or mobile devices with internet access
·) Software Interface:-
Database for storing.

5) Performance Requirements:-

→ System must handle thousands of application daily.
→ Response time for form submissions & stat updates should be under 3 seconds.

6) Design Constraints:-

→ Must comply with govement data priv Security laws.
→ Must base encryption for sensitive dat

7) Non - Functional Attributs:

· Security
· Usability
· Reliability.

8) Preliminary Schedule & Budget:-

16 weeks ₹10,50,000

LIBRARY MANAGEMENT SYSTEM :-

Introduction :-

Purpose :- The purpose of LMS is to automate the traditional library operations including book cataloging, user management, & circulation.

Scope :- The system will allow :-
- Admin to add, edit
- Members to search & borrow books.
- Tracking of borrowed & overdue books.
- Simple reports for issued & returned books.

Overview :-

The system has 2 types :- Admin & members Admin manages the library, while members use it to find & borrow books.

2) General description :-
- Users :- Librarias, students & faculty.
- The system will be web-based
- It reduces paperwork & saves time.

3) Functional requirements :
- Login for admin & members.
- Add, edit & delete books.
- Add & manage members.

4) Interface requirements :-

User interface :- Simple, menu-driven.

Hardware :- Computer / mobile with Internet

Software :- Runs on any browser with database support.

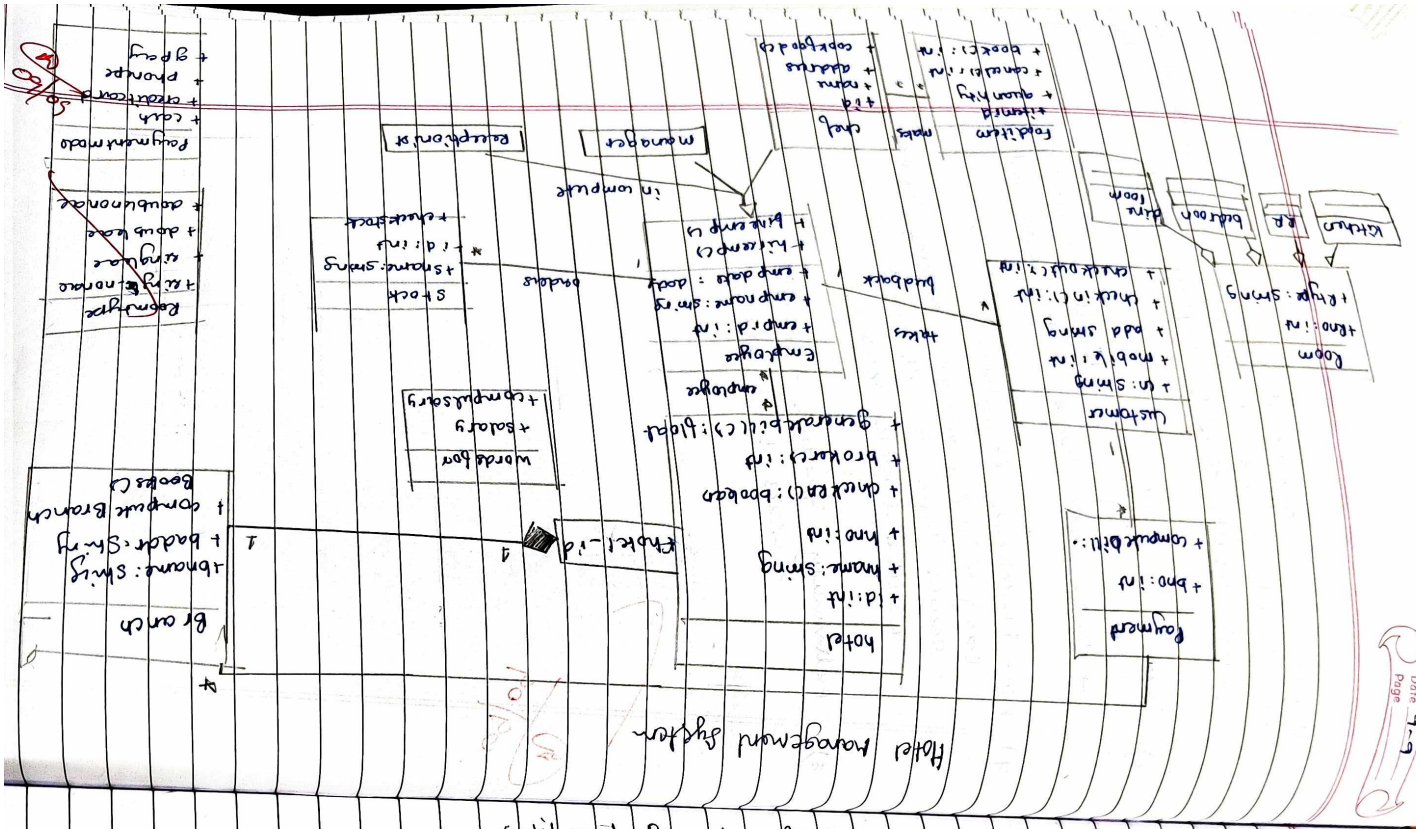
5) Performance requirements :-
→ Should handle at least 50 users at the same
→ Search results should display within 2-3 second

6) Design Constraints :-
→ Works only with internet connection
→ Users must have valid login credentials.

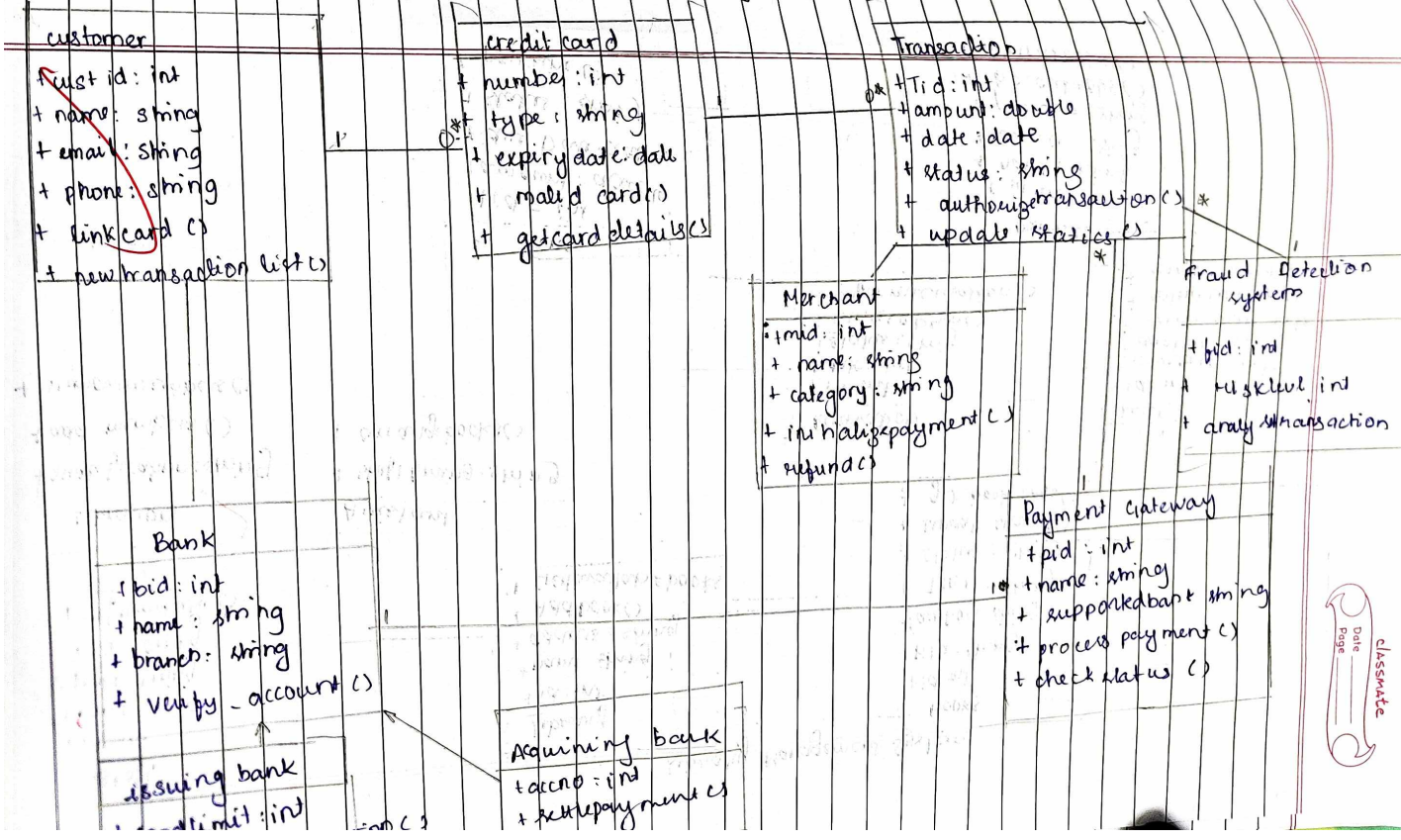
7) NON - Functional Attributes :-
Easy to use, minimal training required
Secure login for all users
Reliable & quick access.

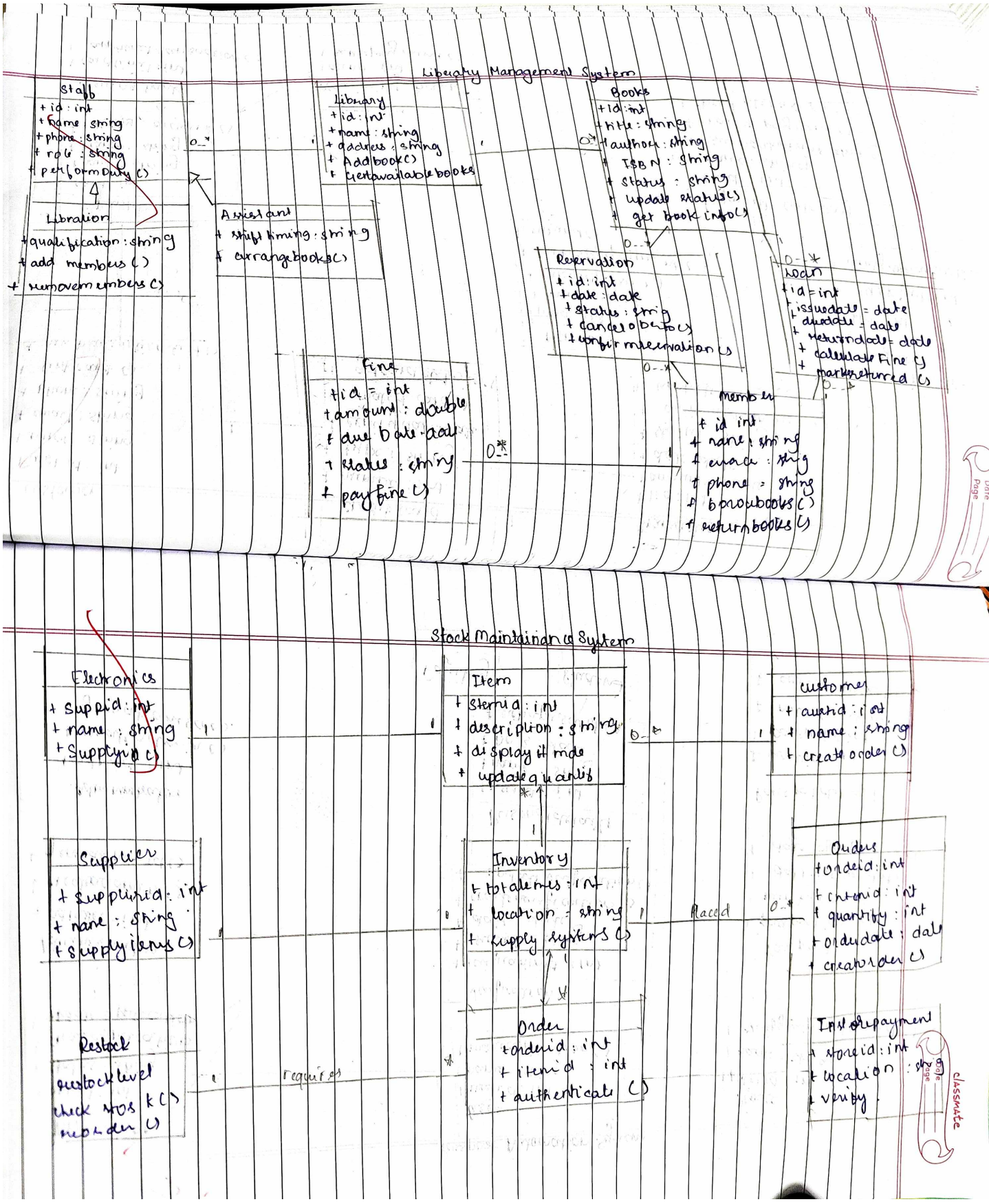
8) Preliminary Schedule & Budget :-
9 weeks & 1,75,000

09/09



Credit card Processing System




Library Management System
Staff
+ id : int
+ name : string
+ phone : string
+ role : string
+ performDuty ()
Librarian
+ qualification : string
+ addMembers ()
+ removeMembers ()
Assistant
+ shift timing : string
+ arrangeBooks ()
Library
+ id : int
+ name : string
+ address : string
+ AddBook ()
+ GetAvailableBooks
Books
+ id : int
+ title : string
+ author : string
+ ISBN : string
+ status : string
+ updateStatus ()
+ getBookInfo ()
Reservation
+ id : int
+ date : date
+ status : string
+ cancelOrder ()
+ confirmReservation ()
Loan
+ id = int
+ issueDate = date
+ dueDate = date
+ returnDate = date
+ calculateFine ()
+ markReturned ()
Fine
+ id = int
+ amount : double
+ dueDate : date
+ status : string
+ payFine ()
Member
+ id int
+ name : string
+ email : string
+ phone : string
+ borrowBooks ()
+ returnBooks ()
Stock Maintainance System
Electronics
+ supplid : int
+ name : string
+ supplyItem ()
Supplier
+ supplierid : int
+ name : string
+ supplyItems ()
Restock
restockLevel
checkStock ()
reOrder ()
Item
+ itemid : int
+ description : string
+ displayItemInfo
+ updateQuantity
Inventory
+ totalItems : int
+ location : string
+ supplyRegisters ()
Order
+ orderid : int
+ itemid : int
+ authenticate ()
Placed
customer
+ custid : int
+ name : string
+ createOrder ()
Orders
+ orderid : int
+ itemid : int
+ quantity : int
+ orderDate : date
+ createOrder ()
InstallPayment
+ storeid : int
+ location : string
+ verify
Required

Passport Automation System