Hotel management system

→ Applications

1. Hotel Management System
2. Credit Card Processing
3. Library Management System
4. Stock Maintaince System
5. Passport automatication System
6.

Lab-01

1. Hotel Management System =

* Problem Statement-

Traditional hotel management processes often rely on manual methods, leading to inefficiencies, errors and delays. To address these challenges, there is a need for a comprehensive Hotel Management system (HMS) that automates various tasks, including reservation management, guest services, billing, inventory control and reporting. The goal is to develop a robust HMS that enhances operational efficiency, improves guest- of satisfaction and enables hotel staff to focus on delivering exceptional service.

2. Introduction
    1.1 Purpose of this document
    -The main aim of this document is to specify all the requirement of hotel management.
    2.2 Scope of this document -
    -The objective of the hotel management system is to simplify the day to day process of system.
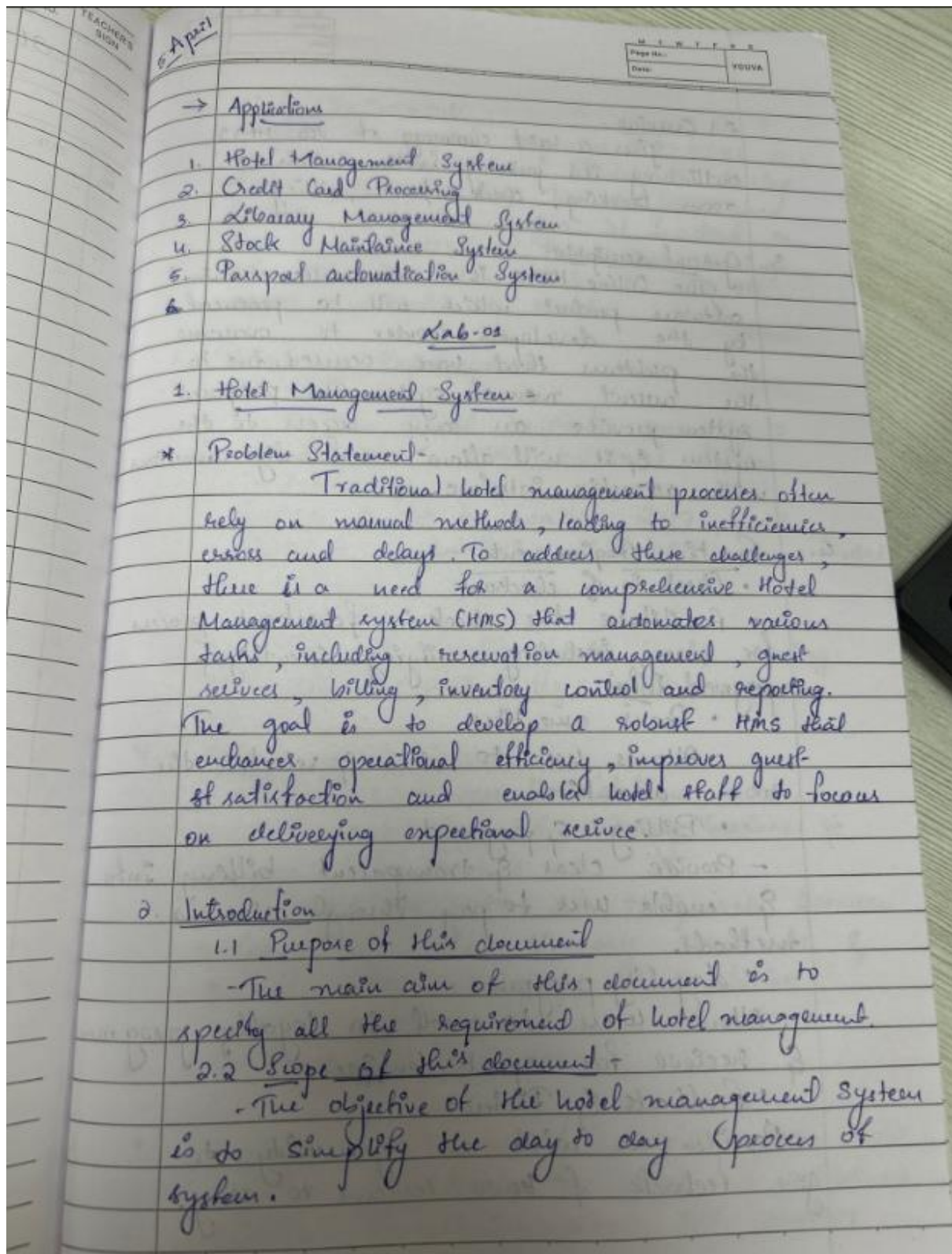
2.3 Overview -
- Gives a brief summary of the HMS, outlining its primary functions such as room booking, check-in/out, billing

3. General description -
The Online HMS is a new self contained software product which will be produced by the developers provider to overcome the problems that have occurred due to the current manual system. The prepared system provide an easy access to the system & it will allow user friendly function with attractive interface.

4. Functional Requirements -
· Check in & checkout -
· Facilitate the check-in & checkout process for users, including verifying identity & payment info.
· Room amenities
   - Allows user to view & select the room amenities.
· Billing & payment
   - Provide clear & transparent billing info & enable user to pay through various methods.
· Loyality programs
   - Allow user to enroll in loyalty program & recieve for repeat business
· Feedback & Reviews
   - Provides user with an oppurtunity to give feedback & leave reviews to stay.

5. Interface Requirements –

    Web development languages like HTML, CSS, Js, PHP will be used inorder to develop this website. Bootstrap has also been used for the responsible design of frontend so that it is customized to devices having dif dimensions. The backend runs on MsQL provided by XAMPP.

6. Performance Requirements –

    – Response Time
    System should respond promptly to user requests, with minimal latency.

    – Availability
    System should be avaible 24/7, with schedduled maintaince windows communicated in advance

    – Scalibility
    Ability to handle peak loads during high-demand periods (eg: holidays, events

Design constraints –

    – Hardware/software limitations
    Compatability with existing hardware & software Infrastruchue

    – Compatability with dif os & web browsers
    – Compliance with Cibarary standards & protiols for cataloging & circulation

Non-Functional attributes

Security – Encypts on of sensetive data, Role based accen control for staff & members
Peotability – Accessibity across dif devices.

9. Preliminary Schedule & Budget

The development of library management system is estimated to take 6 months with a budget with a budget of $80,000 Indules Analysis, design, devolopment, testing

Hotel Management System
+hotelName
+hotelLocation
+hotelType
+add()
+remove()
+search()
+edit()

Branch
+branchName
+branchLocation

+branch_id

«enumeration» room-type
singleAc
singleNonAc
doubleAc
doubleNonAc

Rooms
+roomNo
+roomType
+Attribute1
+search()
+reserve()

+has

Employees
+name
+age
+gender
+address
+contact
+bookRooms()
+checkRooms()
+manageDatabase()
+generateBills()

Customer
+custName
+custAge
+custPhoneNo
+checkIn()
+checkOut()
+pay()

Restaurant
+name
+type
+serve()
+collectBill()
+acceptPayment()

+consists

Helper

+consists   +consists

Chef

Receptionist

+makes

Order
+orderQty
+orderAmt
+orderTime
+calculateTax()
+calculateTotal()

Menu
+itemName
+itemType
+itemPrice
+addItems()
+removeItems()

+has

Veg

Non-veg

Payments
+totalAmt
+paymentType
+paymentDate
+makePayment()
+printBills()

CashPayments

CardPayments