Hotel Management System

Problem Statement :-

Manual Hotel operations lead to efficiency and errors. HMS automates tasks for accuracy and service.

Introduction

The purpose defines requirements for HMS to guide development and ensure stakeholder alignment.

The main objective of the HMS SRS is to provide is to prove a base for the project It gives comprehensive view of how the system is supposed to work and what is to be expected by end users

Scope :- The world is changing so the HMS making it very promising courses option.

Overview :- This project is intended for Booking of rooms through an online platform. Manage will be able to view financial reports and room information. Customers can check availability.

Functional requirements:

Reservation management

- Allows users to make room reservation online through front desk.
- Generate reservation confirmations and send notification to guests.
- Guest management

→ Maintain guest profiles with personal information and booking history.

Interface requirements.

User interface.

- Intuitive and user friendly interface for hotel staff and guests.

Integration interface.

- Integration with payment gateways

Credit card processing Managment.

Problem statement :-

Credit card processing through offline to the merchant collecting cards info, storing database, and entering it. using them is not very service.

Introduction

The software requirement specification is designed to document and describe the agreement b/w customer and developers regarding specification of software product requested. This provides a clear idea.

Purpose :-

The purpose of this document is to outline requirments and specifications for developing a credit card processing. It defins the goals and intended audience of the project and ensure all stakeholders have understanding.

Scope :- Defines objective and working of Credit card transacted processing system concluding authorization clearing

or General desciption.

This system involves. Signing up for a free business be configured. and then you can accept payment from visa, master card.

It consists of admins, customers Admins responsible for managing credid process including credit authorization

Functional requirments

Process credit card authorization request in real-time. This function should be smooth and meet user needs.

Encrypt and transmit data to appropriate payment gateway.

- Settlement Management
- Fraud detection

Interface requirements

User interface :- An initiative web based dashboard for merchants, view transaction

Performance requirement

Response time :- The system must process and authorise request within 1-5 sec.

Scabbility :- The system must ensure that statust of book.

Data integrity

Design constrains

Hardware limitation :- The system should be compatible with standard lib hardwar.

Software dependency:

Utilize a relational database like My Sql or Postgre Sql for data storage.

Non- functional Attributes.

- Security :- login for librarian to prevent unauthorization.
- Reliability :- The system should be highly
- Usability :- The interface should be easy to understand
- Compatible :- Shoud be compatible for all users.

Preliminary Schedule Budget.

The development of the LMS is estimated to take 11 months' requirement budget 50,000.

Stock Maintaince System.

Introduction

1.1 Purpose

This document specifig the functiond and non-functiondl requirement for Stock Maintaince.

1.2 Scope.

The system will all users to add update and delete, alerts for low stock & produce reports.

1.3 Intended Users.

- Inventory manager
- Stock keepers
- Admin staff

2 Functional Requirements

1. User Authentication
2. Stock Maintaince.
3. Stock Movement.
4. Search and Filters.
   - Search stock by ID, name
   - Filter by low stock
5. Reports.
   - Generate daily inventory reports
   - Export reports as PDF
6. Notifications:-
   - Alert for low stock levels.

Non functional Requirement

- Usability :- Easy to use Interface.
- Performance :- Fast response for operation and reports
- Scalability :- Support for growing inventory
- Backup :- Daily data backup

System Requirement

- Frontend :- HTML / CSS / Javascript
- Backend : PHP appropriate backend langugt
- Database : MySQL / PostgreSQL

- Hosting: Local servers or cloud based hosting

5 Assumptions and Constraints.

- The system will be used only by authorized users.
- Users must be trained to use the system

6) Schedule & Budget

Schedule : 3-4 months
Budget : 3-4 lakhs approx

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Passport Automation System

Problem Statement

Manual Passport application and verification Processes are time consuming and error prone. An automated system is needed to simplify application tracking & approval

Introduction.

1.1 Purpose.

To develop a passport automation system that enables online application verification and issuance of passport

1.2 Scope.

- Online application & document Submission
- Automated verification & police clearance
- Status tracking and notification
- Appointment Scheduling

1.3 Overview

The system reduces paper work, speed up processing & provide transparency for applicants.

2) General Description

The System is a web based application connecting applicants passport office and police department for efficient passport processing.

3) User classes and characteristic

- Applicant : Apply, uploads document and track status.
- Police department :- Conducts background verification.
- Admin:- Manages System operations.

4) Interface Requirement.

- Web portal & mobile app
- Secure login for different users roles
- User - friendly dashboard for applicant

5) Performance Requirements.

- Handle threshold of application daily
- Response time <3 sec per request
- 24/7 availability

6) Design Constraints

- Must employ with government IT & Security standards.
- Encrypted data transfer.
- Integration with national ID & police database.

7) Non-functional Requirements:

- Security :- Strong encryption, OTP verification
- Reliability : Regular data backup & recovery system.
- Usability : Simple interface for all age groups
- Scalability : Handle increasing applicants each year.

8) Schedule & Budget

- ~~6-8 months~~
- 6-8 months for complete development
- 15-20 lakhs depending on scale & security measures.

Library Management System

Problem statement :- Manual library operations such as issuing returning & tracking books are inefficient. An automated system is required.

Introduction

1) Purpose :- To build the LMS that streamline book issuance returns & inventory tracking.

2) Scope :-
- Book search & catalog management.
- Issuing & retrieving books.
- Fine calculation.

3) overview

The system ensure quick book access reduces errors & maintain accurate library record.

4) General description

The system is a web-based app that automate library process, manage books and provides real time availability of resource.

5) User classes & characteristics.
- Admin : Manage books, users, system settings.
- librarian : Handle book transaction & overview.
- Members (student / Faculty) :- Search, borrow & return books.

6) Functional Requirements
- Add, update, delete book record.
- Issue & return books.
- Search book by title
- Calculate fines for late return.

7) Interface Requirement
- web & desktop interface
- login system with different role
- Search & filter option for books.

6 Performance Requirement

- Support 200 + simultaneous user
- Book search result within 2 sec
- Database can store thousands of book entries

7) Design constraints

- Runs on standard browsers / computer
- Database : mySQL / oval
- Language : Java / Python

8) Non-functional Requirement

- Security : Role-based access & data protection
- Usability : Easy to use interface for all user.
- Reliability : System back-up & recovery support
- Scalability : Ability to manage mutiple branches.

9) Schedule & Budget

→ 2-3 months development time
→ 1-2 lakhs depending on feature