Experiment Noiol

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Aim: To analyte prequirements and prepare SRS for library management System.

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1. Introduction

1.1 purpose: The main purpose of Library management system is to maintain the details of all kinds of books in one flatform. So that the user can easily sieceive book from library. The circulation system between user and sibroscies will be en semple manner. The usen can check his nequired book from their home.

1.2 Scope:

As the Isbrasy system is updated into an andvold application so the user can know the details of the books availability, maximum limit through their phones. Abrasy managment system also provides the information's like details of books, limitations on issuing books, time on keeping the book even after the secturn date, no of books available, no of books issued. Abrasy managment system will keep track of all books ainformation.

1.3 Acronyms and abbreviations

UML- Unified modeling language

OOA - Object oriented Analysis

oop - object oriented Design

oop - object oriented programming

1.4 References:

· IEEE Recommended practice for setware requirements specifications", technical Report, 1EEE computer society, 1998.

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1.5 Documentation overviews

This document describes the purpose, scope, interface, functional requirements, non functional sequirements of the library managment system in detail. In purpose the main purpose of this settinare is discussed in scope section the necessary of the software. It tells the benefits of this software In functional requirements we can know about behavior or functions that the system Supports.

- 2. functional Requirements
 - 1. Register (Sign up
 - a. a) Search a book
 - b) Reserve book
 - 3. a) Issue Book
 - b) Return Book
 - c) Alert Book Return
 - 4. a) maintain Inventory
 - b) Report Generation

- 5 a. Feedback b. Recommend book C. Help
 - 6. Account maintainance.

functional Requirement 1: Register / sign up Input: The usen will give his details like

Name, ROHNO, branch, mailid and the confirmation password.

Processing: After entering the details the Settware checks wheather the ceses entered data is valid or not. If all conditions are perfect the settware will assign the account to user with his enformation.

output: our profile with our mallid will be created The settware well generate a id for the ceser.

functional Requirement 2: a) Searchabook

Input: The user well enter name of the book that he enequired and also the name of the author.

processing: The usen entened name will be checked with the settware catalog and if there Es any match with that the uses

can get details of book.

output: If there is any match with the settware database then the usen entered book details will be displayed. If there are no matches then the Seftware well show No match is found.

functional Requirement 2: b) Reserve a book input: The usen will enten the name of the book that he required.

processing: The software will check whether the user entered is present in the cating or not. If the entered book is not present then the software will preserve a book for the usen.

output: (that particular book will be reserved for that particular person) The software will neserve book for the user.

functional Requirement 3 a) Issue a Book input; If the user entered book name is

available in the Library database then the the book we will be issued to the members processing: If book is available then book will be assued of not they can reserve the book. and also if there is no sesementions on that book then the software will make the user to access the book.

output: The book Ps Pssued to the member. Conformation for book issue. functional Requirement 3 b) Return Book.

input: The member will enter the details of the book that he want to return.

processing: software checks for the book details. system will check whether the book is returned within due date or not. If not then the even must pay the fine as the system will ask the member to pay fine. output: The number of books in the liberary will be incremented to & of the category of the book the user returned.

functional Requirement &c Alert Book return input: 30 At the time of essue book the system will fix the neturn data of the book.

processing: kiken the usen is issued with the book and the seturn date of the 9s in with in two days the system will send notifications to the tises members. output: The usen will get the notification as the seturn date of the book is near soon and he want to return the book.

functional Requirement 4: maintain Inventory, Report Creneration

input: There will be seperate software that updates the information about no of books returned, Students sugistered. It will automatically stores the dialy information.

processing: The information processed automatically whenever book areturned or updated from library output; once the information is updated

Processing: The information given by the usen 9s stored in user database of the system and everyone has the access to see it. output, All the secommended books ase displayed. The user entered book is added to the secommend book list.

functional Requirement 6 Account Maintainance Introduction: Accounts of all the users are maintained by librarian.

Account maintainance involves the addition, deletion of the book.

input: Member id entered by the cises.

processing: The no: of books the uses sieceived. fine he paid the books he succommended . will be opened.

output: The uses account details will be displayed.



3. Interface Requirements

3.1 GUI

Login | Register:

ZMS "	- UX
The second secon	
Register	Login
BOILMO:	
Mame:	
mastid:	-
password:	
Conferm Password	

Book Search:

BOOK DETAILS	
Book Name:	
AUthor:	
member 10:	1
ADD DELETE RESERVE (EXIT	

Profile						Fine Returned	o eketum	o etam		
		Panel			sey Name]	Expirey Date	31-12-2020	4-1-2021		
		Member Search Panel	Member 18/NO		circulation for [membername]	15 Sue Data	27-18-2020	30 - 12 - 20'20		
		S			Book Ciru	Book 1D	え	تم	Issae	
= SW7 [=]	MAIN NAVIGATION	Dashboard Dashboard	& settings	E GOOKS	Bioly Read Books		A MOHARAMON A		El Report	

* Performing Regularments: This specifies the EERSTERNENCE CHARACTERISTICS OF HONTEINCHOLDS as each of transcy management system. The system should be able to handle large anount of date. Responses to view information should not take more than s seconds to appear on screen. The sibrary must contain a west computer systems with good efficiency.

5. Design constraints: the data about books and the student data must be private and secure. In LMS the bardence constraints include availability of number of series, and limit to store information.

6- Non-functional requirements En security: The system should use secured database. It should provide a passicord to legin. The access to data should be given to lebrarian. Password must be kept to every information.

GR Availability: The system should be made available all the time.

6.3 maintainability: There should be any option

to add or delete or update any information related to books or users.

6.4 Reusability: The Library managment system provide pressability. It will enhances the neusability of the system.

7. operational scenarios:

The usen database will be provided. The usen database contain all the enformation like name, id, phone number, email address.

8. Preliminary Schedule: The system should be designed within 5 months.