**A mini project report on**

**PERSONAL LIBRARY MANAGEMENT SYSTEM**

*For the award of the degree*

*of*

**BACHELOR OF TECHNOLOGY**

**In**

**COMPUTER SCIENCE AND ENGINEERING**

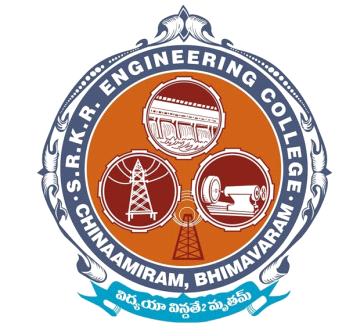
(III Year - Ist Semester)

**APPLICATION DEVELOPMENT LAB**

***Submitted by***

**Mr. ASHUTOSH MISHRA**

(**17B91A05P4**)



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**SRKR ENGINEERING COLLEGE(A)**

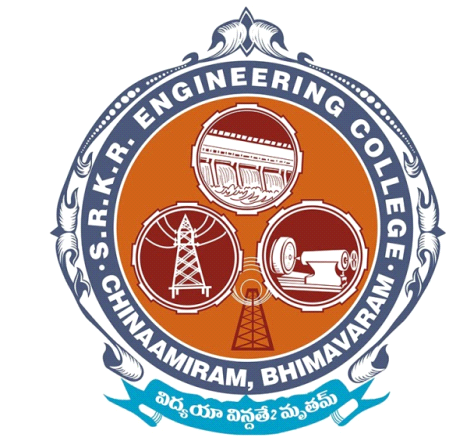
ChinnaAmiram, Bhimavaram, West Godavari Dt.,

[2019-2020]

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**S.R.K.R. ENGINEERING COLLEGE**

**BHIMAVARAM**



*CERTIFICATE*

This is to certify that this is a bonafide work on “**Personal Library Management System**” and has been submitted by Mr. Ashutosh Mishra (17B91A05P4), in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering, during the academic year 2019-2020. The candidate worked right under my Supervision and guidance.

**Lecturers In-Charge Course Coordinator**

**Smt. V.Priyadarshini Smt. V.Priyadarshini**

Assistant Professor, Assistant Professor,

Department of CSE, Department of CSE,

S.R.K.R.Engg.College, S.R.K.R.Engg.College,

Bhimavaram. Bhimavaram.

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**ABSTRACT**

This project aims to build a Personal Library Management System that will facilitate the interactive storage of whatever items the user is interested to store, may it be books, CDs, Movie Details, Music Playlist arrangement, etc.

The system will maintain item information such as Name, a primary key, called Code, Item Details, etc. All this Item information will be uploaded by the User and will be systematically stored after verification by the Admin.

The Personal Library Management System will also enable the User and Admin to easily spot trends and note statistics of items. For example the system will enable the User and Admin to find which type of Item is stored by the highest number of Users, and try to systematize the storage in a convenient and user friendly format.

**1. MODULES**

**1.1 ADMIN MODULE:**

The admin module will be used by the Admin Panel.

**1.2 USER MODULE:**

The user will be able to add items, submit reviews and apply to profiles they like

**1.3 ITEM MODULE:**

The Item stored remains in this module for respective user, and gets retrieved for every query of that particular user. This module is apparently monitored by the User Module, which is subsequently managed by the Admin Module.

**1.4 ADVANTAGES MODULE:**

SYSTEMAIC STORAGE OF ITEMS, ALSO USERS

EASY ACCESS TO THE ITEMS AND ITS DETAILS

**1.5 DIS ADVANTAGES MODULE:**

LIMITED NUMBER OF USERS AND ADMINS

**1.6 TECHNOLOGY USED MODULE:**

Front End: Java Swing

Back End: MySQL

**2. SOFTWARE REQUIRMENT SPECIFICATIONS**

**2.1 PURPOSE :**

It intends to help fast in fast access procedures in storage related activities and ensures to maintain the details of the items of particular user. Users logging should be able to upload their personal item information. The key feature of this project is that it is one time registration enabled. The Admin panel monitors the User to upload their desired items, along with their details, and retrieve those items whenever they feel it’s necessary. Also, Items can be issued for a certain period of time and it is done by the User. The User Module is further manipulated by the Admin Panel.

**2.2 SCOPE:**

Our project has more to do with personal usage. We can store information of items of respective User. Various Users can access their details. Acknowledgements are sent to Admins about the User Performance and actions.

**2.3 OBJECTIVE:**

The main objective of this project is to maintain the systematic storage of Users by admins, Items by Users.

It increases the efficiency of retrieval of items based on their primary keys, especially CodeNumber and optimize time.

There a facility to edit

User details and then let it be verified by the admin.

**2.4 EXISTING SYSTEM:**

The existing system describes the features of the previous working model and their drawback. Existing system does all processes manually. Admins register the information of Users. If any modifications or updates are required in the profile of any user, it has to be done manually. This is tedious and time consuming, lack of security of data, took more man power, consumes large volume of paper and space. This process is so difficult when number of user’s increases.

**2.4 PROPOSED SYSTEM:**

The aim of the proposed system is to develop a system with improved facilities. The proposed system can overcome all the limitation of the existing system, such as user’s information is maintained in the database, it gives more security to data, reduces paper work and save time, isolation is maintained for all users, it makes information flow efficient and paves way for easy report generation, reduce the space. proposed system is cost effective.

**Advantages:**

\*Reduces Access time complexity.

\*User can relay on security premises.

\*It reduces the unnecessary maintenance of repeated data.

**2.6 REQUIREMENT ANALYSIS:**

Analysis focuses on producing a model of the system called the analysis model, which is correct

Complete, consistent and verifiable. Analysis model is composed mainly of three individual models.

\*Functional model

\*Analysis object model

\*Analysis Dynamic model

The functional model is represents with use of case diagrams, the object model with class diagram and the dynamic model with state chart and sequence diagrams.

**2.7 FUNCTIONAL REQUIREMENTS :**

**MODULES:**

Personal Library Management System provides the modules like

User

Admin

Item

USER MODULE:

In this module, creation of user input records about few necessary details with facilities to modify the records and viewing changed records. The User views the Item details and verifies particular Item details and provides valid details for issue.

The users must register before logging into site and should remember their password

They let their stored items get verify by admin.

ITEM MODULE:

The item logins themselves and their User profile with help of login username as their User’s name and secret code generated by admin only a registered one.

Admin can view User details and choose the users from registered ones.

Also, select the items required by their choices and inform the user about their selection with the help of any communication source like e-mails.

ADMIN MODULE:

The admin is the main personnel who views the user details and item details.

He can also add a user to the user list and generate a UserId for the particular user.

To main the User details available. He can View user details, View s item details.

**2.8 NON-FUNCTIONALREQUIREMENTS**:

**Non-functional requirement** (NFR) is a requirement that specifies criteria that can be used to judge the operation of a system, rather than specific behaviors. They are contrasted with functional requirements that define specific behavior or functions. The plan for implementing *functional* requirements is detailed in the system *design*.

**2.8.1 RELIABILITY:**

 Reliability, describes the ability of a system or component to function under stated conditions for a specified period of time. Reliability is closely related to availability, which is typically described as the ability of a component or system to function at a specified moment or interval of time.

**2.8.2 COST:**

The cost of production development and maintenance is minimum, as this project Uses all open source tools to develop the cost of construction is low.

**2.8.3 PERFORMANCE:**

The system is developed using high-level languages and using advanced languages for front end and back end. It will give response to user within less time.

**2.8.4 SUPPORTABILITY:**

The system is designed to cross platform supportable. The system is supported on wide range of hardware and any software platform, which is having JVM, built into system

**2.8.5 SECURITY:**

This avoid unauthorised users to modify the content in the database.

**2.9 PSEUDO REQUIREMENTS:**

**2.9.1 SOFTWARE REQUIREMENTS:**

1. JAVA - JDK13.0

2. Operating System - Supports WINDOWS,UNIX/LINUX,MAC-OS

**2.9.2 HARDWARE REQUIREMENTS:**

1. Processor - Intel core i3 and above

2. RAM - 2GB or above

3. Hard Disk - 250GB or above

**3.DATABASE CONNECTIVITY**

**Table 3.1 ADMIN LOGIN**

|  |  |
| --- | --- |
| **FIELD** | **TYPE** |
| Username | Varchar2(25) |
| Password | Varchar2(15) |

**Table 3.2 USER LOGIN**

|  |  |
| --- | --- |
| **FIELD** | **TYPE** |
| UserName | Varchar2(25) |
| UserId | Varchar2(10) |

**Table 3.3 USER REGISTRATION:**

|  |  |
| --- | --- |
| **FIELD** | **TYPE** |
| First Name | Varchar2(40) |
| Last Name | Varchar2(40) |
| Phone no | Number(10) |
| User Name | Varchar2(20) |
| Password | Varchar2(30) |

**Table 3.4 STUDENT DETAILS:**

|  |  |
| --- | --- |
| **FIELD** | **TYPE** |
| Roll Number | Varchar2(40) |
| Branch | Varchar2(40) |
| CGPA | Number(10) |
| E-mail | Varchar2(20) |

**Table 3.5 ACTUAL DETAILS**

**Table 3.5.1ADMIN LOGIN**

|  |  |
| --- | --- |
| **Username** | **Password** |
| aswanth | A@123 |
| satya | S@123 |

**Table 3.5.2 COMPANY LOGIN**

|  |  |
| --- | --- |
| **Company** | **Code** |
| TCS | TCAW@5 |
| WIPRO | YKT2@23 |