1 **Digital Library System**

Sri Venkateswara College of Engineering and Technology, Etcherla

2 **DIGITAL LIBRARY SYSTEM**

3 **Contents**

- Introduction
- Abstract
- Existing and Proposed Systems
- Software and Hardware Interfaces
- Modules
- Database Table Designs
- Presentation of E-R Diagram, UML Diagrams
- Screen Shots
- Conclusion

4 **Introduction**

- It's a well organized Software Solution for a Library.
- It has a Database which is constantly managed and updated.
- It helps to provide information on any book present in library to the User who uses it.
- It keeps a track of books issued, returned and added to the library.
- Allows users to virtually Browse and see the books without doing so manually.

5 **Abstract**

- The project titled "Digital Library System" is Library management software for monitoring and controlling the transactions in a library.
- This mainly focuses on basic operations in a library like adding new member, new books, and updating new information, searching books and members and facility to borrow and return books.
- "Digital Library System" is a web application designed & developed to help users maintain and organize library.
- Our software is easy to use for both beginners and advanced users.
- It features a familiar and well thought-out, an attractive user interface, combined with strong searching Insertion and reporting capabilities.
- The report generation facility of library system helps to get a good idea of which are the books borrowed by the members, makes users possible to generate reports hard copy.

6 **Existing System**

- More workload to the librarian.
- Book search is very difficult.

6

- More workload to the librarian.
- Book search is very difficult.
- More paper work needed.
- Every time needs to check records
- Users cannot have access to select books.

7 **Disadvantages of Existing System**

- Expertized Librarians are needed because issuing/returning books, searching of books is more difficult to others
- Report maintenance take too long time to the library workers
- There exist an chance of mistake in daily records, it Leeds penalty to users or library
- 

8 **Proposed DLS**

- It provides "better and efficient" service to members.
- Reduce the workload of librarian.
- Faster retrieval of information about the desired book.
- Provide facility for proper monitoring reduce paper work and provide data security.
- All details will be available on a click for both user and librarian.

9 **Advantages of DLS**

- DLS will provide email notification about each transaction in the library
- Users will be automatically logged out after 10 minutes of inactivity in DLS
- Users also get email Notifications about dues & late book issues
- OneSearch is efficient way of searching books, we can search books by any of its details like title, author, publication, ISBN.
- Librarian can easily make Repots of library using DLS
- Each individuals can login into their own accounts by using their id and passwords
- 

10 **System Interfaces**

– Software Interfaces
  – Operating System : Windows XP/7
  – Back End : MySQL Server
  – PHP Web Server
  – Adobe Dreamweaver
  – Eclipse for PHP
– Hardware Interfaces
  – Processor: Pentium 3.0 GHz or higher
  – RAM: 512 Mb or more

- – Processor: Pentium 3.0 GHz or higher
- – RAM: 512 Mb or more
- – Hard Drive: 10 GB or more
- –
- –

## 11 □ **Modules**

- • In the "Digital Library System" there many modules are there:
  - – Database
    - – Record Maintenance
  - – OneSearch for Books in Library
    - – Intelligent Searching of books.
    - – Quick Search
  - – Login & Registration
    - – Login System
    - – Registration Process
    - – Account Recovery

## 12 □ **Modules**

- – Administrator
  - – Profile Editing
  - – Issuing/Returning
  - – Calculating Penalty
- – Borrower
  - – Profile Viewing
  - – Viewing Transactions
  - –
  - –

## 13 □ **Database table designs**

Digital Library Management

## 14 □ **All Tables in DLS**

## 15 □ **Students Table structure**

## 16 □ **Data in Courses Tables in DLS**

## 17 □ **Presentation of E-R Diagram, UML Diagrams**

Digital Library Management

## 18 □

## 19 □

15

16

17 **Presentation of E-R Diagram, UML Diagrams**

Digital Library Management

18 **Login Page**

19 **Find Book**

20 **Issue Book**

21 **Fine Calculation**

22 **Add New Employee**

23 **Admin Functionalities**

24 **Class Diagram**

25 **Activity Diagram**

26 **Collaboration Diagram**

27 **Component Diagram**

28 **Deployment Diagram**

29 **SCREEN SHOTS**

Digital Library Management

30 **Home Page for DLS**

31 **Registration Page**

32 **OneSearch Page**

33 **Password Recovery**

34 **Adding Books Page**

35 **Conclusion**

- From a proper analysis of positive points and constraints on the component, it can be safely concluded that the product is a highly efficient GUI based component. This application is working properly and meeting to all user requirements. This component can be easily plugged in many other systems.

36 **Thank you…**

Digital Library System

37

36

Digital Library System

37 **Questions..?**

Digital Library System