A

PROJECT REPORT

ON

"[[Project name]]"

Submitted in partial fulfillment for the Course of

Database Management System Laboratory

Submitted by:

S/L	Name	ID
1	Asif Iqbal	191-15-2750
2	Fahim Shahriar Shakil	191-15-2748
3	Ashik Mahmud Reshat	191-15-2757

Submitted to

Rubel Sheikh
Lecturer
Department of Computer Science and Engineering
Daffodil International University

TABLE OF CONTENTS

CHAPTER 1
INTRODUCTION

1.1 PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of the system were carried out in this sub chapter. The succession of the system also will be evaluated through this sub chapters.
The project objectives are:

1. To eliminate the paper-work in library
2. A search column to search availability of books.
3. A search column to search availability of books.
4. Open link for Learning Websites
5. An Admin login page where admin can add books, videos or page sources
6. To record every transaction in computerized system so that problem such as record file missing won't happen again
7. To design a user-friendly graphical user interface which suit the users
8. Student login page where student can find books issued by him/her and date of return.

1.2 BACKGROUND OF THE PROJECT

E-Library Management System is an application which refers to library systems which are generally small or medium in size. It is used by librarian to manage the library using a computerized system where he/she can add new books, videos and Page sources.

Books and student maintenance modules are also included in this system which would keep track of the students using the library and also a detailed description about the books a library contains. With this computerized system there will be no loss of book record or member record which generally happens when a non-computerized system is used.

All these modules are able to help librarian to manage the library with more convenience and in a more efficient way as compared to library systems which are not computerized.

1.3 SCOPE OF THE PROJECT

In this sub chapter, project scope will be carried out what modules were contains inside the Library Management System.
For Library Management System, it is divided into online web site and library system. For my part, I was responsible for library system while the online web site .
At here, I will describe my own part which is library system which used by librarian

CHAPTER 2

SYSTEM ANALYSIS

In this chapter, we will discuss and analyze about the developing process of Library Management System including software requirement specification (SRS) and comparison between existing and proposed system . The functional and non functional requirements are included in SRS part to provide complete description and overview of system requirement before the developing process is carried out. Besides that, existing vs proposed provides a view of how the proposed system will be more efficient than the existing one.

SYSTEM REQUIREMENTS

SOFTWARE REQUIREMENTS

 Operating system- Windows 7,8,10, Mac, Linux is used as the operating system as it is stable and supports more features and is more user friendly

 Database MYSQL-MYSQL is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.

 Development tools and Programming language- HTML is used to write the whole code and develop webpages with CSS, java script for styling work and php for sever side scripting

HARDWARE REQUIREMENTS

Intel core i5 2nd generation is used as a processor because it is fast than other processors an provide reliable and stable and we can run our pc for longtime. By using this processor, we can keep on developing our project without any worries.
 Ram 1 gb is used as it will provide fast reading and writing capabilities and will in turn support in processing.

SOFTWARE TOOLS USED

The whole Project is divided in two parts the front end and the back end.

1.Front end

The front end is designed using of html , Php,c# ,css, Java script
HTML- HTML or Hyper Text Markup Languages the main markup language for creating web pages and other information that can be displayed in a web browser.HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets (like <html>), within the web page content. HTML tags most commonly come in pairs like <h1> and </h1>, although some tags represent empty elements and so are unpaired, for example <img>.

CSS- Cascading Style Sheets(CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind
of XML document, including plain XML, SVG and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation.CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification.

JAVA SCRIPT- JavaScript(JS) is a dynamic computer programminglanguage. It is most commonly used as part of web browsers, whose implementations allow clientside scripts to interact with the user, control the browser, communicate
asynchronously, and alter the document content that is displayed. It is also being used in server-side programming, game development and the creation of desktop and mobile applications. JavaScript is a prototype-based scripting language with dynamic typing and has first-class functions. Its syntax was influenced by C. JavaScript copies many names and naming conventions from Java, but the two languages are otherwise unrelated and have very different semantics. The key design principles within JavaScript are taken from

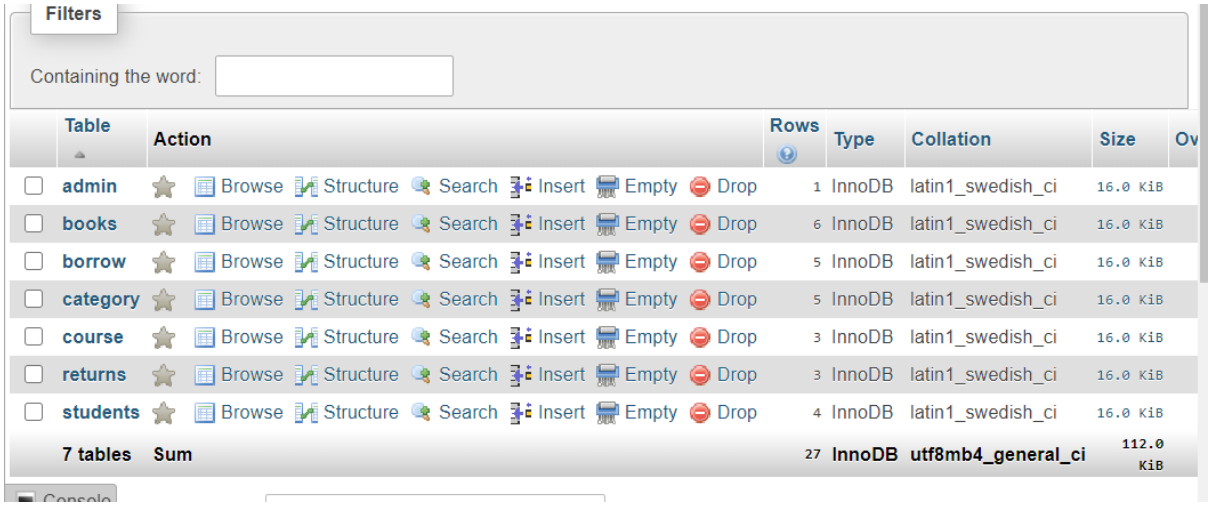
PHP- PHPis a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is now installed on more than 244 million websites and 2.1 million web servers. Originally created by

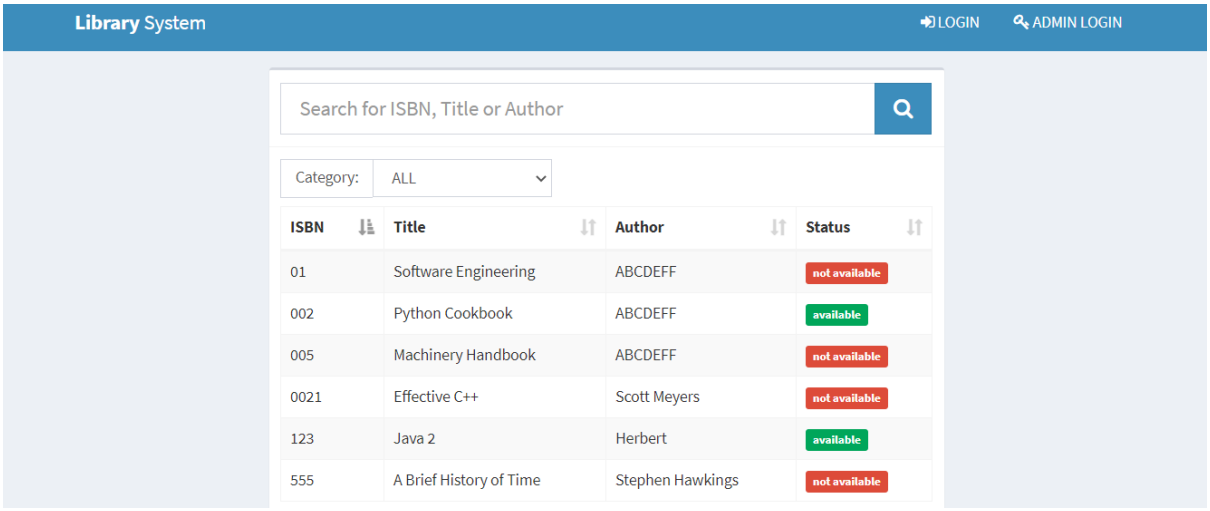
Rasmus Lerdorf in 1995, the reference implementation of PHP is now produced by The PHP Group. While PHP originally stood for Personal Home Page, it now stands for PHP: Hypertext Preprocessor, a recursive backronym.

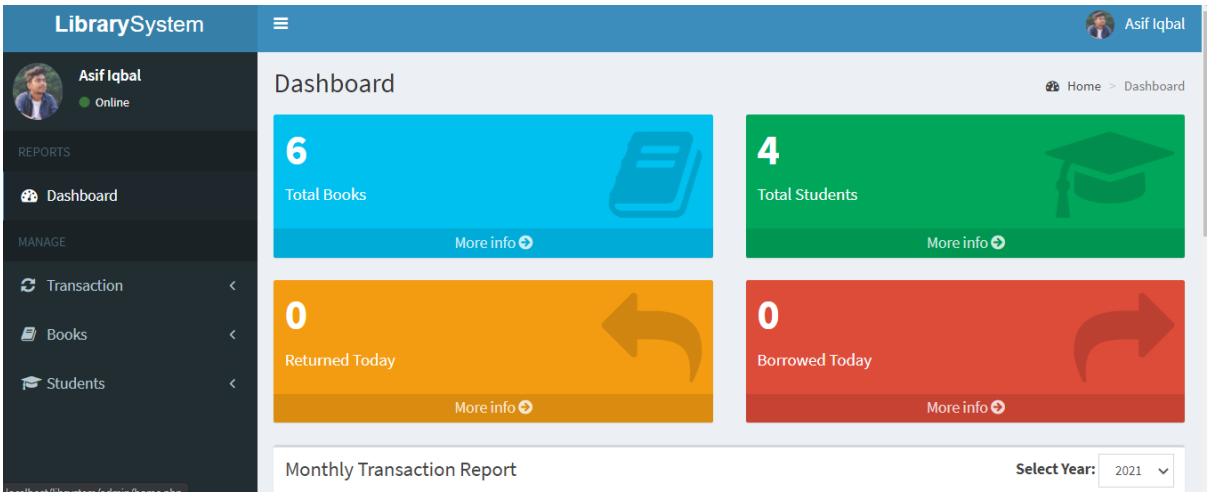
CHAPTER 3

SYSTEM DESIGN

Database design:



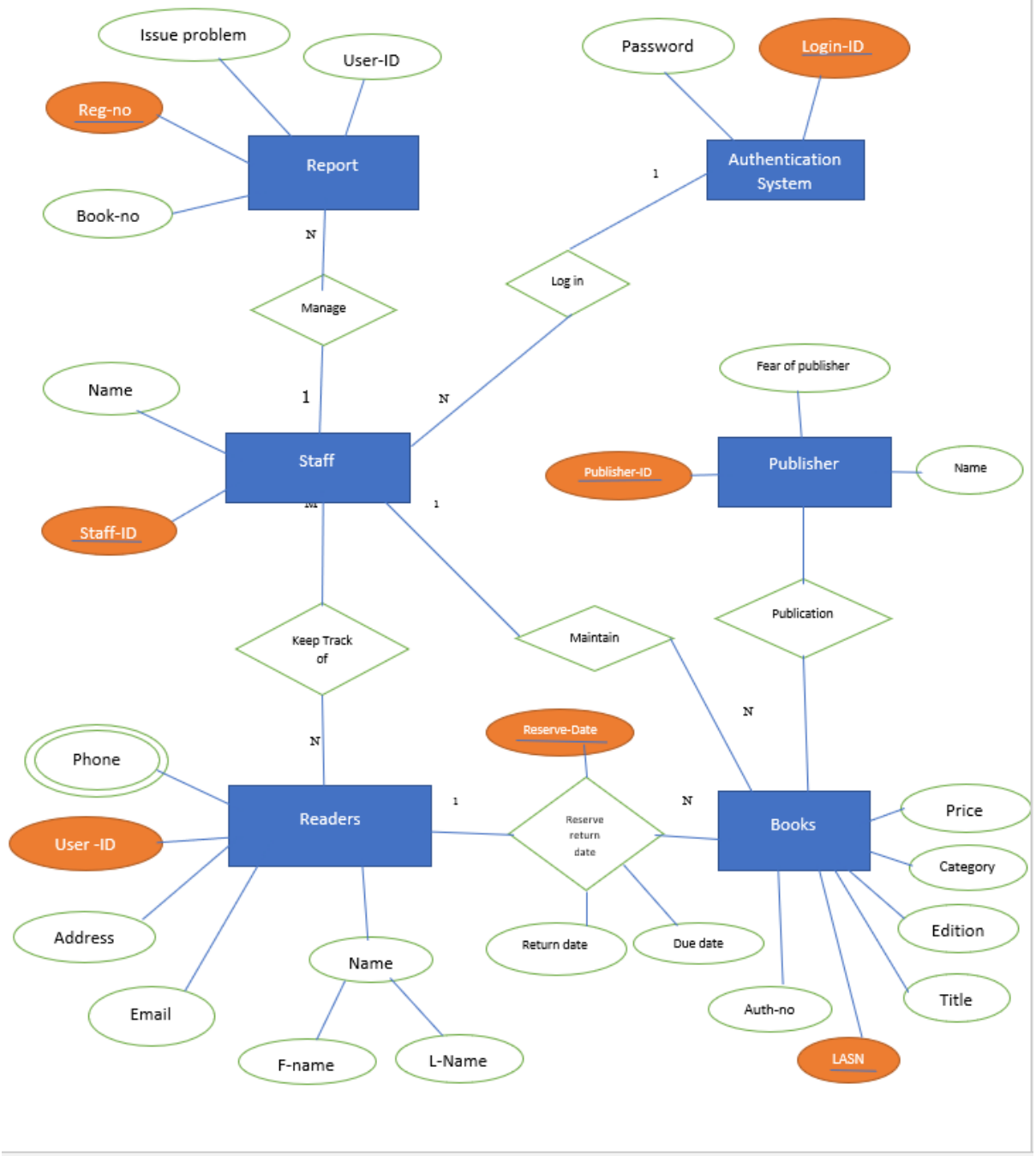




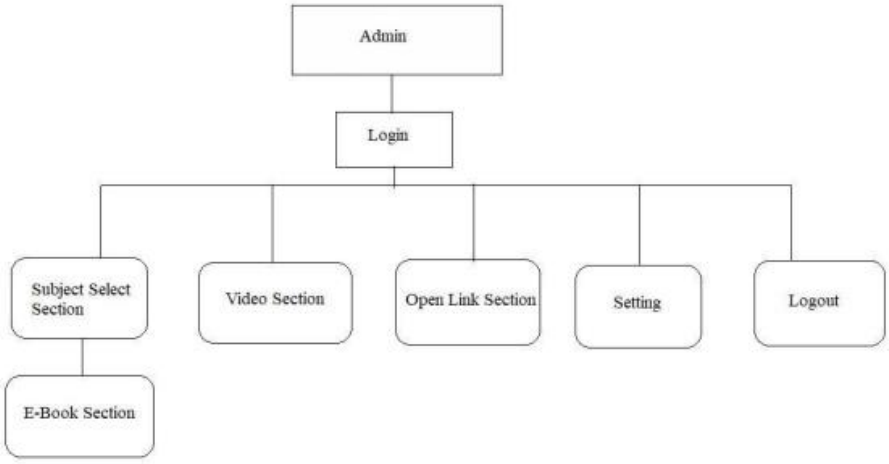
CHAPTER 4

SYSTEM IMPLEMENTATION

ER Diagram:



USER CASE DIAGRAM FOR ADMIN:



CHAPTER 5
SYSTEM TESTING

End user Training:
The successful implementation of the new system will purely upon the involvement of the officers working in that department. The officers will be imparted the necessary training on the new technology.
End User Education:
The education of the end user start after the implementation and testing is over.
When the system is found to be more difficult to under stand and complex, more effort is put to educate the end used to make them aware of the system, giving them lectures about the new system and providing them necessary documents and materials about how the system can do this.
Training of application software:
After providing the necessary basic training on the computer awareness, the users will have to be trained upon the new system such as the screen flows and screen design type of help on the screen , type of errors while entering the data , the corresponding validation check at each entry and the way to correct the data entered. It should then cover information needed by the specific user or group to use the system

Test For the admin module

Testing admin login form-This form is used for log in of administrator of the system. In this we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for username and password

Student account addition- In this section the admin can verify student details from student academic info and then only add student details to main library database it contains add and delete buttons if user click add button data will be added to student database and if he clicks delete button the student data will be deleted

CHAPTER 6
CONCLUSION AND FUTURE SCOPE

This website provides a computerized version of library management system which will benefit the students as well as the staff of the library.
It makes entire process online where student can search books, staff can generate reports and do book transactions. It also has a facility for student login where student can login and can see status of books issued as well request for book or give some suggestions. It has a facility of teacher's login where teachers can add lectures notes and also give necessary suggestion to library and also add info about workshops or events happening in our college or nearby college in the online notice board.

There is a future scope of this facility that many more features such as online lectures video tutorials can be added by teachers as well as online assignments submission facility , a feature Of group chat where students can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfills each users need in the best way possible

CHAPTER 7
REFERENCES

1. https://www.w3schools.com/html/html_intro.asp
2. https://www.w3schools.com/js/js_datatypes.asp
3. https://www.w3schools.com/php/DEFAULT.asp
4. https://www.w3schools.com/sql/
5. https://www.apachefriends.org/index.html