

Project Report

On

FAST FORWARD LIBRARY MANAGEMENT

SYSTEM

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CERTIFICATE

Certified that this is a bonafide record to the project work titled

FAST FORWARD LIBRARY MANAGEMENT SYSTEM

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Signature of Project Guide

Signature of H.O.D

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ABSTRACT

Library management system is project which aims in developing a computerized system to maintain all the daily work of library .This project has many features which are generally not available in normal library management system like facility of user login . It also has a facility of admin login through which the admin can monitor the whole system. It has also a facility where user after logging in their accounts can see list of books issued and its issue date and return date and also the user can give feedback. The administrator logging into his account can generate various reports such as user report, issue report , and book report.

Overall this project of ours is being developed to help the user as well as staff of library to maintain the library in the best way possible and also reduce the human efforts.

CHAPTER 1

INTRODUCTION

This chapter gives an overview about the aim, objectives, background and operation environment of the system.

1.1 PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter . The aims and objectives are follows:

- *Online book issue and book return.*
- *Admin can view all book reports such as who issued which book and when will he/ she returned the book.*
- *Admin can also view existing members and also if someone registered as a new member.*

- *User login page where they can view available books issue and can return the book.*
- *Feedback form for the betterment management for our library.*

1.2 BACKGROUND OF PROJECT

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 record various transactions like issue of books, return of books, addition of new books, addition of new user etc. Books and user maintenance modules are also included in this system which would keep track of the users 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. In addition, report module is also included in Library Management System. If user's position is admin, the user is able to generate different kinds of reports like lists of users registered, list of books, issue and return reports. 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 OPERATION ENVIRONMENT

PROCESSOR	INTEL CORE PROCESSOR FOR BETTER PERFORMANCE
OPERATING SYSTEM	WINDOWS VISTA, WINDOWS 7, UBUNTU
MEMORY	1 GB RAM OR MORE
HARD DISK SPACE	MINIMUM 3 GB FOR DATABASE USAGE FOR FUTURE
DATABASE	MY SQL

CHAPTER 2

SYSTEM ANALYSIS

In this chapter, we will discuss and analyse 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.

2.1 SOFTWARE REQUIREMENT SPECIFICATION

2.1.1 GENERAL DESCRIPTION

PRODUCT DESCRIPTION:

Library Management System is a computerized system which helps user (librarian) to manage the library daily activity in electronic format. It reduces the risk of paper work such as file lost, file damaged and time consuming. It can help user to manage the transaction or record more effectively and timesaving.

PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

• File lost-

When computerized system is not implemented file is always lost because of human environment. Sometimes due to some human error there may be a loss of records.

• File damaged-

When a computerized system is not there file is always lost due to some accident like spilling of water by some member on file accidentally. Besides some natural disaster like floods or fires may also damage the files.

- **Difficult to search record-**

When there is no computerized system there is always a difficulty in searching of records if the records are large in number.

- **Space consuming-**

After the number of records become large the space for physical storage of file and records also increase if no computerized system is implemented.

- **Cost consuming -**

As there is no computerized system the to add each record paper will be needed which will increase the cost for the management of library.

2.1.2 SYSTEM OBJECTIVES

- **Improvement in control and performance -**

The system is developed to cope up with the current issues and problems of library. The system can add user, validate user and is also bug free.

- **Save cost –**

After computerized system is implemented less human force will be required to maintain the library thus reducing the overall cost.

- **Save time –**

Librarian is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time.

- **Option of online notice board –**

Librarian will be able to provide a detailed description of workshop going in the college as well as in nearby colleges.

2.1.3 SYSTEM REQUIREMENTS

2.1.3.1 NON FUNCTIONAL REQUIREMENTS

- *Product Requirements*

EFFICIENCY REQUIREMENT

When a library management system will be implemented librarian and user will easily access library as searching and book transaction will be very faster.

REALIABILITY REQUIREMENT

The system should accurately performs member registration, member validation, report generation, book transaction and search.

USABILITY REQUIREMENT

The system is designed for a user friendly environment so that user and staff of library can perform the various tasks easily and in an effective way.

ORGANIZATIONAL REQUIREMENT

IMPLEMENTATION REQUIREMENTS

In implementing whole system it uses html in front end with php as server side scripting language which will be used for database connectivity and the backend i.e. the database part is developed using mysql server.

DELIVERY REQUIREMENTS

The whole system is expected to be delivered in six months of time a weekly evaluation by the project guide.

2.1.3.2 FUNCTIONAL REQUIREMENTS

1. NORMAL USER

1.1 USER LOGIN

Description of feature

This feature used by the user to login into system. They are required to enter user id and password before they are allowed to enter the system. The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

Functional requirements

- user id and password is made by the user when they register.
- The system must only allow user with valid id and password to enter the system.
- The system performs authorization process which decides what user level can access to.
- The user must be able to logout after they finished using system.

1.2 REGISTER NEW USER

Description of feature

This feature can be performed by all users to register new user to create account.

Functional requirements

- System must be able to verify information.
- System must be able to delete information if information is wrong.

1.3 REGISTER NEW BOOK

Description of feature

This feature allows to add new books to the library.

Functional requirements

- System must be able to verify information.
- System must be able to enter number of copies into table.
- System must be able to not allow two books having same book id.

1.4 ISSUE BOOKS AND RETURN BOOKS

DESCRIPTION OF FEATURE

This feature allows to issue and return books and also view reports of book issued.

Functional requirements

- System must be able to enter issue information in database.
- System must be able to update number of books.
- System must be able to search if book is available or not before issuing books
- System should be able to enter issue and return date information

SOFTWARE REQUIREMENT SPECIFICATION

SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system.

SOFTWARE REQUIREMENTS

- *Operating system- Windows 7 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, javascript for styling work and php for server side scripting.*
- *Front End Language: HTML , CSS and JAVASCRIPT*
- *Back End Language: PHP and MYSQL*
- *Web Server: XAMPP*

HARDWARE REQUIREMENTS

- *Intel core i5 2nd generation is used as a processor because it is fast than other processors and 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.*
- *MEMORY: 4GB or more.*

2.2 EXISTING VS PROPOSED SYSTEM

- i. *Existing system does not have any facility of admin login or user login whereas proposed system will have a facility of user login as well as admin's login.*
- ii. *Existing system does not have a facility of online reservation of books whereas proposed system has a facility of online reservation of books*
- iii. *Existing system does not have any facility of user registration online whereas proposed system has a facility for new users registration.*
- v. *Existing system does not have any facility to generate user reports as well book issue reports whereas proposed system provides librarian with a tool to generate reports.*
- vi. *Existing system does not have any facility for book request whereas in proposed system after logging in to their accounts user can request books as well as provide suggestions to improve library.*

2.3 SOFTWARE TOOLS USED

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

2.3.1 Front end

The front end is designed using of html , Php , css, Java script.

❖ **HTML**- *HTML or Hyper Text Markup Language is 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 . The first tag in a pair is the start tag, and the second tag is the end tag (they are also called opening tags and closing tags). In between these tags web designers can add text, further tags, comments and other types of text-based content. The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page. HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.*

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, colours , and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification Library Management System Division Of Computer Science And Engineering of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content (such as by allowing for table less web design).CSS can also allow the same markup page to be presented in different styles for different rendering methods, such as on-screen, in print, by voice (when read out by a speech-based browser or screen reader) and on Braille-based, tactile devices. It can also be used to allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links that document to a CSS file, readers can use a different style sheet, perhaps one on their own computer, to override the one the author has specified. However if the author or the reader did not link the document to a specific style sheet the default style of the browser will be applied.CSS specifies a priority scheme to determine which style rules apply if more than one rule matches against a particular element. In this so-called cascade, priorities or weights are calculated and assigned to rules, so that the results are predictable.

- ❖ **JAVA SCRIPT-** *JavaScript (JS) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side 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 the Self and Scheme programming languages. It is a multi-paradigm language, supporting object-oriented, imperative, and functional programming styles. The application of JavaScript to use outside of web pages—for example, in PDF documents, site-specific browsers, and desktop widgets—is also significant. Newer and faster JavaScript VMs and platforms built upon them (notably Node.js) have also increased the popularity of JavaScript for server-side web applications. On the client side, JavaScript was traditionally implemented as an interpreted language but just-in-time compilation is now performed by recent (post-2012) browsers.*
- ❖ **PHP-** *PHP is 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. PHP code is interpreted by a web server with a PHP processor module, which generates the resulting web page: PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data. It has also evolved to include a command-line interface capability and can be used in standalone graphical applications. PHP is free software released under the PHP License. PHP can be deployed on most web servers and also as a standalone shell on almost every operating system and platform, free of charge. An interpreted language but just-in-time compilation is now performed by recent (post-2012) browsers.

2.3.2 BACK END

The back end is designed using mysql which is used to design the Databases.

- ❖ **MySQL**- MySQL ("My S-Q-L", officially, but also called "My Sequel") is (as of July 2013) the world's second most widely used open-source relational database management system (RDBMS). It is named after co-founder Michael Widenius daughter, My. The SQL phrase stands for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack (and other

'AMP' stacks). LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python." Free-software-open source projects that require a full-featured database management system often use MySQL. For commercial use, several paid editions are available, and offer additional functionality. Applications which use MySQL databases include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, Drupal and other software. MySQL is also used in many high-profile, large-scale websites, including Wikipedia, Google (though not for searches), Facebook, Twitter, Flickr, and YouTube.

CHAPTER 3

SYSTEM DESIGN

3.1 TABLE DESIGN

- **USER TABLE FOR USER INFORMATION**

The screenshot shows the phpMyAdmin interface for the 'userdata' table in the 'library' database. The table contains 11 rows of user information. The columns are: firstname, lastname, userid, phone, email, and password. The data is as follows:

	firstname	lastname	userid	phone	email	password
<input type="checkbox"/>	mandal	ani	7645892314	a@gmail.com		ani
<input type="checkbox"/>	Babita	Mahato	babi	7698698757	bobi@gmail.com	babi
<input type="checkbox"/>	Mani	mahato	mani	5643128907	m@gmail.com	mani
<input type="checkbox"/>	Moumita	Goswami	moumita	2398765674	moumita@gmail.com	moumita
<input type="checkbox"/>	Priya	Dutta	priya	6734231569	p@gmail.com	priya
<input type="checkbox"/>	rimpa	mahato	rimpa	7806543455	r@gmail.com	rimpa
<input type="checkbox"/>	riya	fhgjbl	riya	4579531568	r@gmail.com	riya
<input type="checkbox"/>	Ganga	sing	sardar	2345987645	g@gmail.com	sing
<input type="checkbox"/>	Shruti	Pathak	shruti	7679532692	s@gmail.com	shruti
<input type="checkbox"/>	Shruti	Pathak	spatak	7679532692	shrutipathak12321@gmail.com	spatak
<input type="checkbox"/>	Tithi	Pathak	tithi	6784563219	t@gmail.com	pathak

- **BOOK TABLE FROM DATABASE**

The screenshot shows the phpMyAdmin interface for the library database. The left sidebar lists databases like information_schema, library, mysql, performance_schema, phpmyadmin, and test. The current table is bookdata, which has columns: bookid, bookname, author, publication, branch, and quantity. The data is as follows:

bookid	bookname	author	publication	branch	quantity
0	java	habinknl	dglfh	cs	87
1	python	guido van rossum	dyfoug	cs	67
2	HTML	john ducket	powrutuy	cs	10
3	CSS	john ducket	dgfyoj	cs	32
4	C	dennis Ritchie	uiswrdihoyfug	cs	34
5	C++	bjarne sourstrup	fylfifg	cs	50
6	PHP	rasmus lerdorf	hkfhgkj	cs	5
7	JAVA	james goslin	aflgh	cs	67
8	Math	babita	santra	eng	50

- **ADMIN TABLE FROM DATABASE**

The screenshot shows the phpMyAdmin interface for the library database. The left sidebar lists databases like information_schema, library, mysql, performance_schema, phpmyadmin, and test. The current table is admindata, which has columns: admindata and password. The data is as follows:

admindata	password
babita	babita
ganga	ganga
mounita	mounita
shruti	shruti

- Issue table to keep track of books issued

The screenshot shows the phpMyAdmin interface for the 'library' database. The 'issuedata' table is selected. The table structure includes columns: bookid, userid, bookname, issue_date, and return_date. The data is as follows:

bookid	userid	bookname	issue_date	return_date
1	anil	python	05.07.2021	15.07.2021
3	manil	CSS	2021-07-21	2021-08-20
4	moumita	C	2021-07-15	2021-08-14
6	riya	PHP	2021-07-08	2021-08-07
2	shruti	HTML	2021-07-04	2021-07-03
7	tithi	JAVA	2021-07-07	2021-08-06

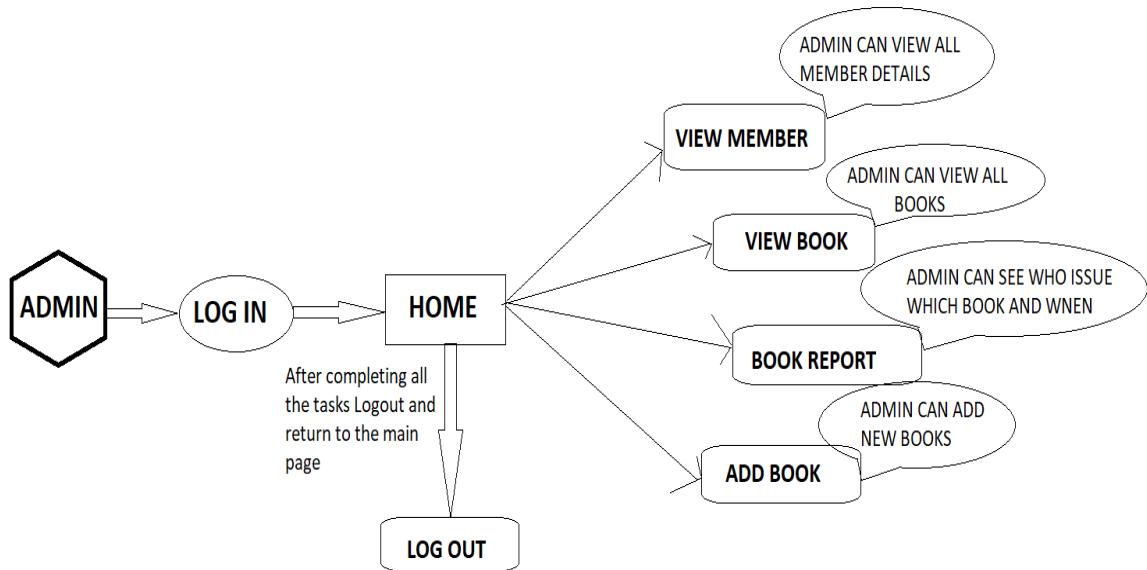
- Feedback data table from database

The screenshot shows the phpMyAdmin interface for the 'library' database. The 'feedback' table is selected. The table structure includes a single column: comment. The data is as follows:

comment
please add a book on javascript
hi how are you
there is no books on data structure, please add!
abcd
fghj
hello
hi

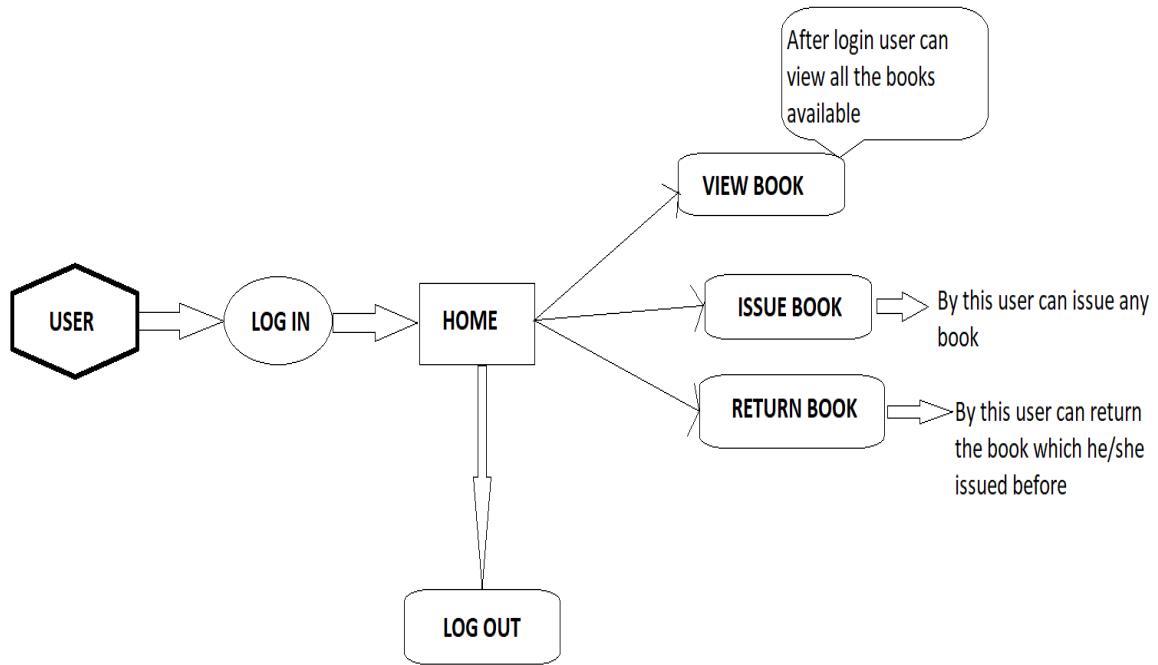
3.2 DATA FLOW DIAGRAMS

DATA FLOW DIAGRAM FOR ADMIN



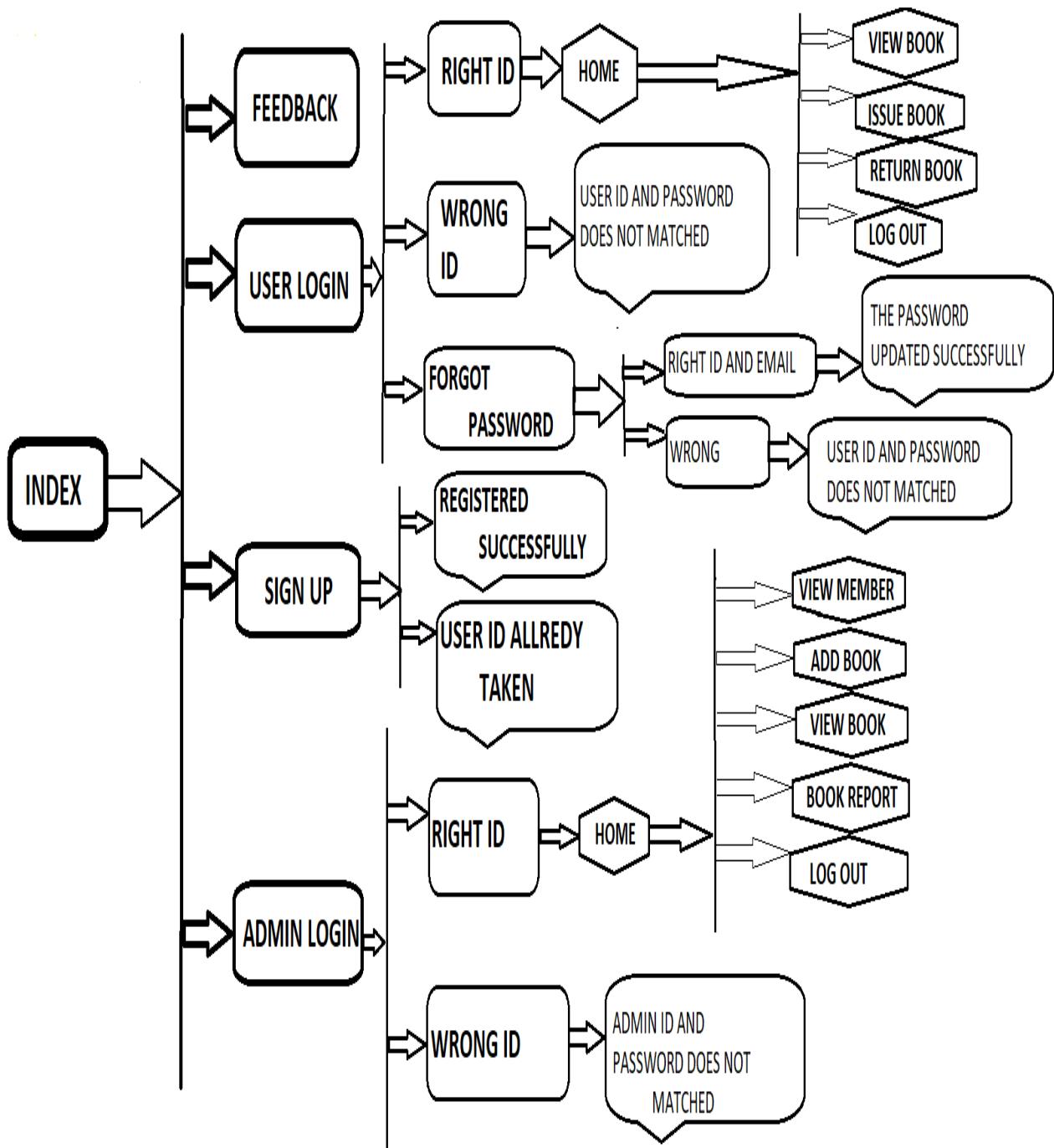
After entering to the home page of the website , admin can choose the ADMIN LOGIN option where they are asked to enter admin id & password , and if he/she is a valid user then a admin home page will be displayed.

DATA FLOW DIAGRAM FOR USER LOGIN



After entering to the home page of the website, user can choose the USER LOGIN option where they are asked to enter username & password , and if he/she is a valid user then a user home page will be displayed.

A WHOLE DIAGRAM OF OUR LIBRARY MANAGEMENT SYSTEM

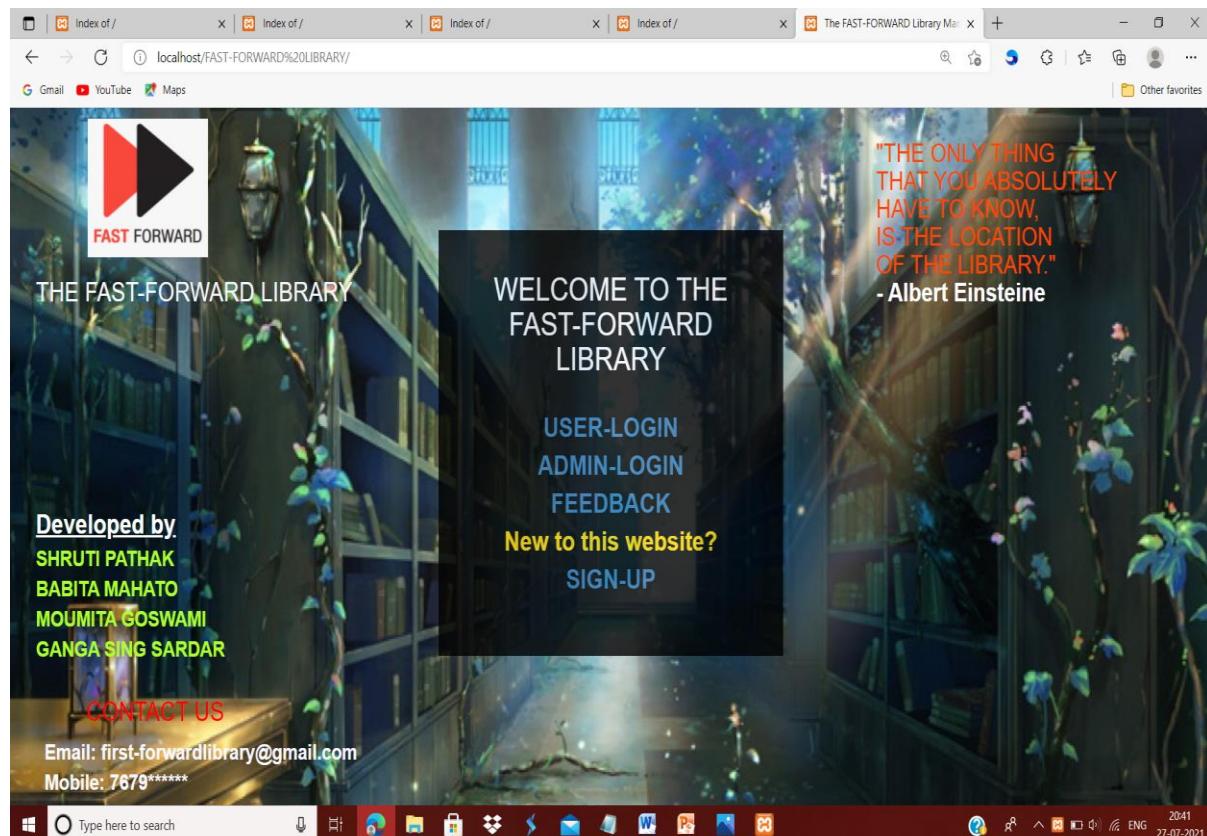


CHAPTER 4

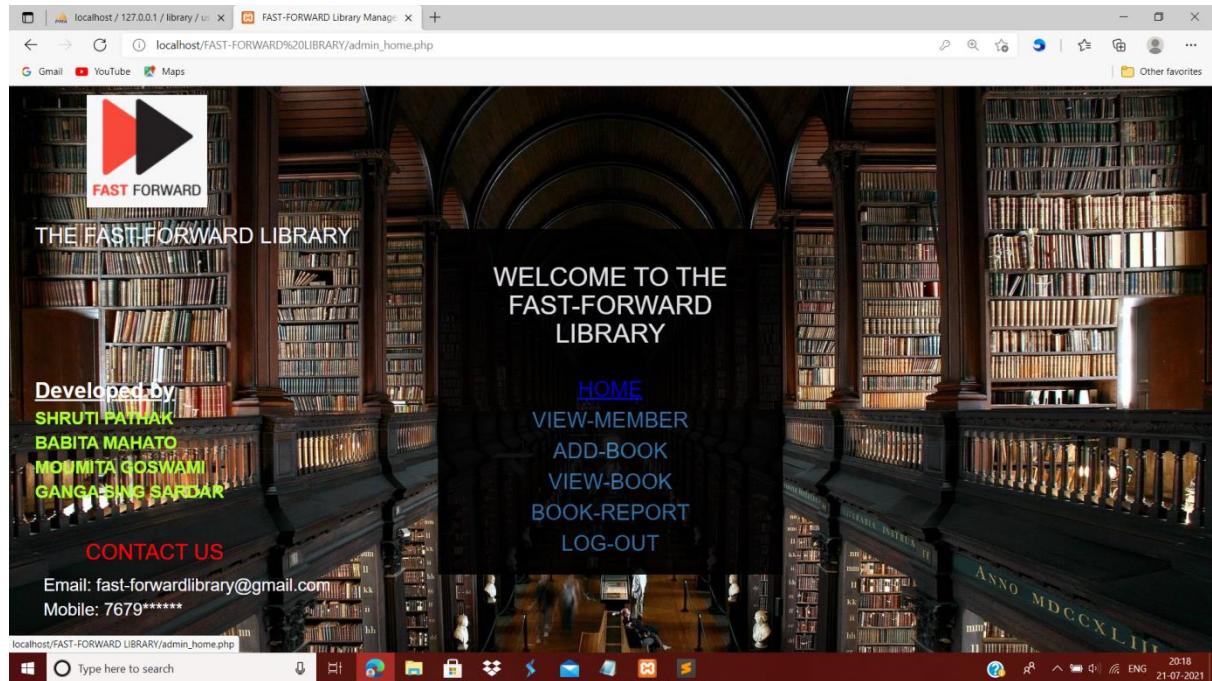
SYSTEM IMPLEMENTATION

4.1 SCRRENSHOTS OF ALL PAGES

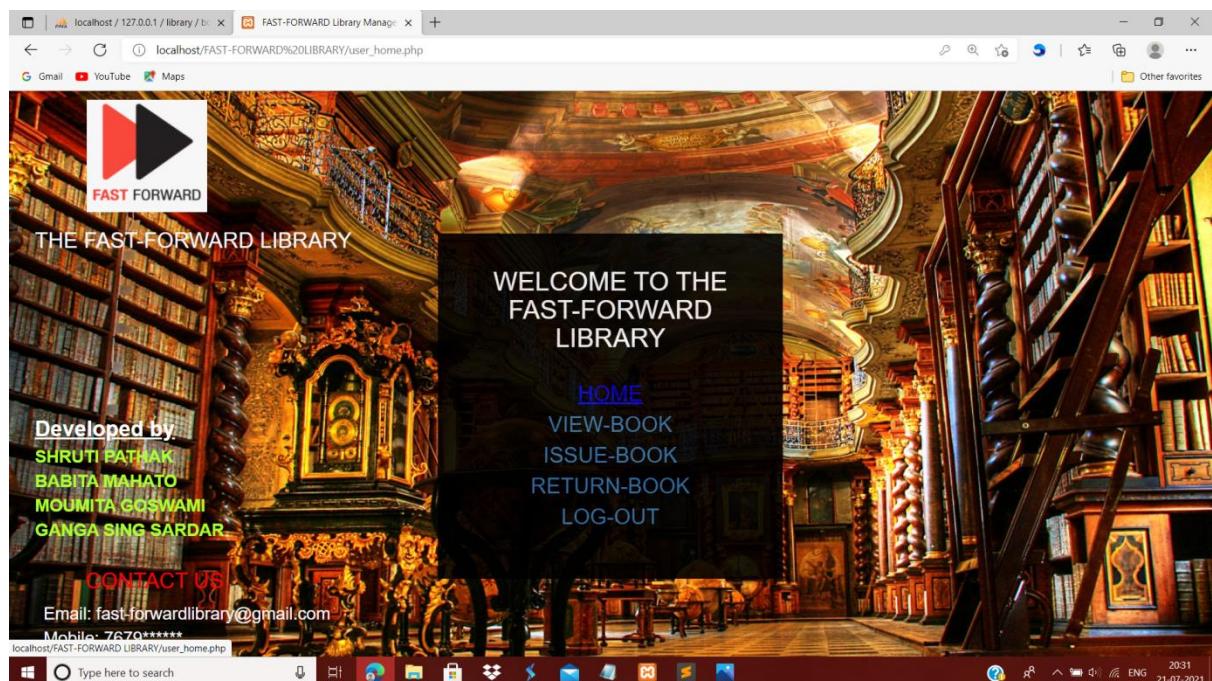
Screenshot For Homepage



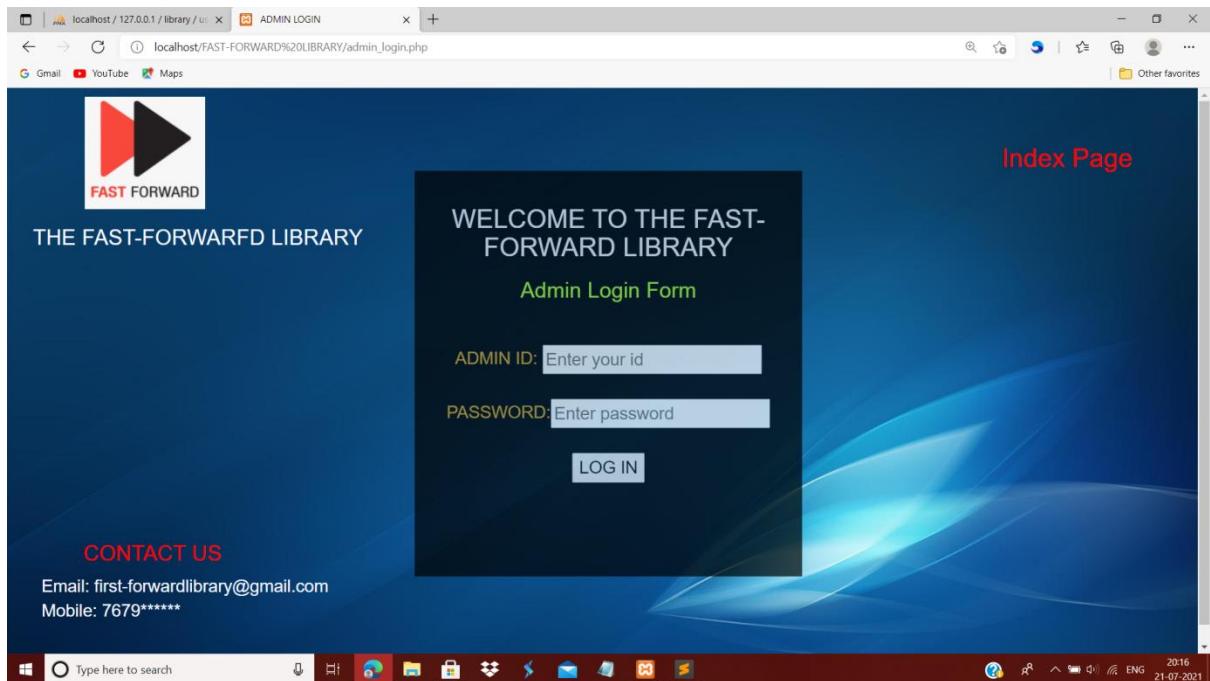
Homepage Of Admin



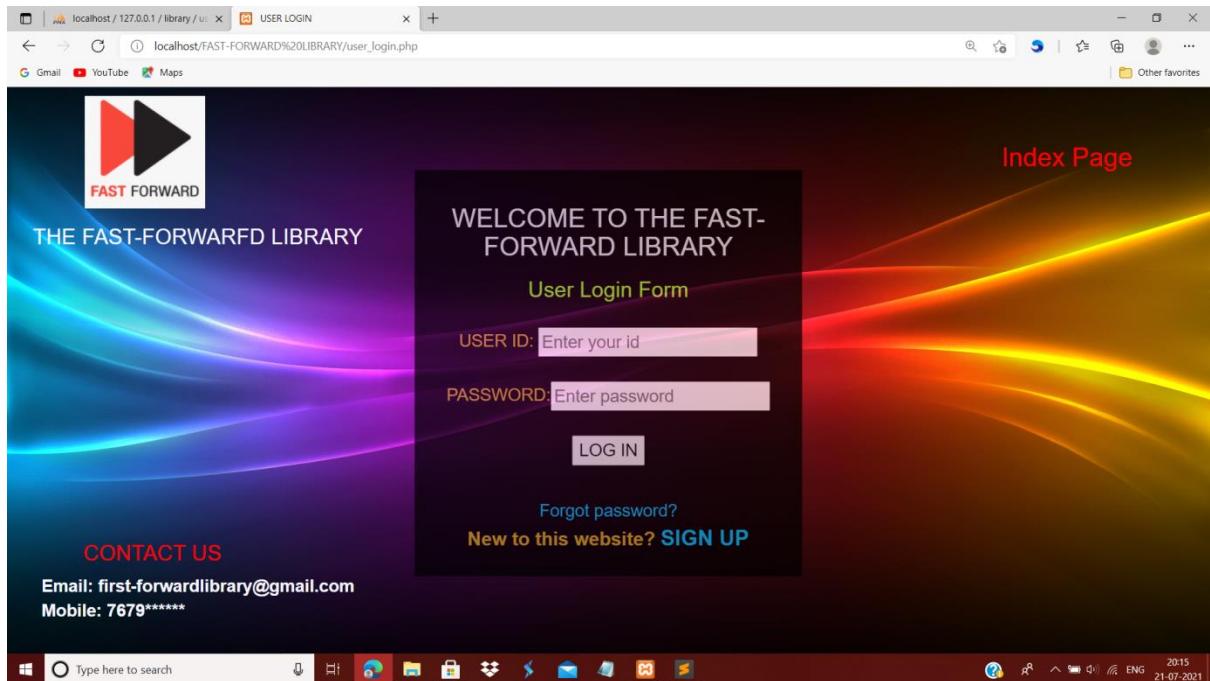
Homepage Of User



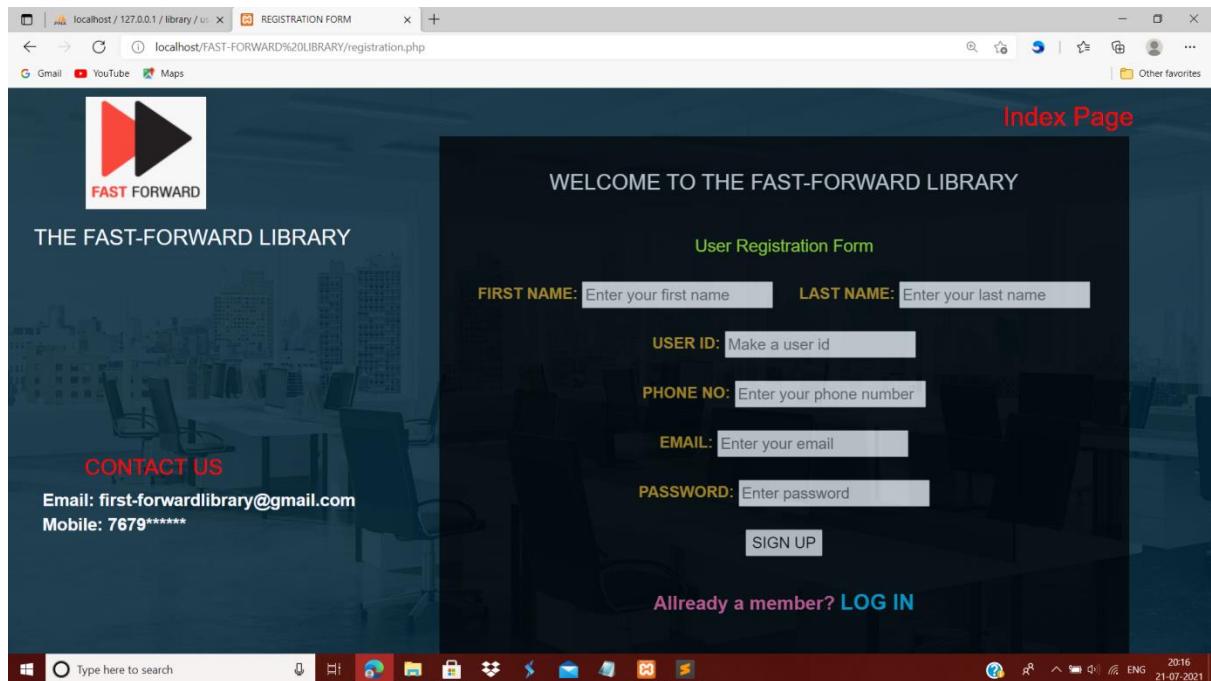
Login Page For Admin



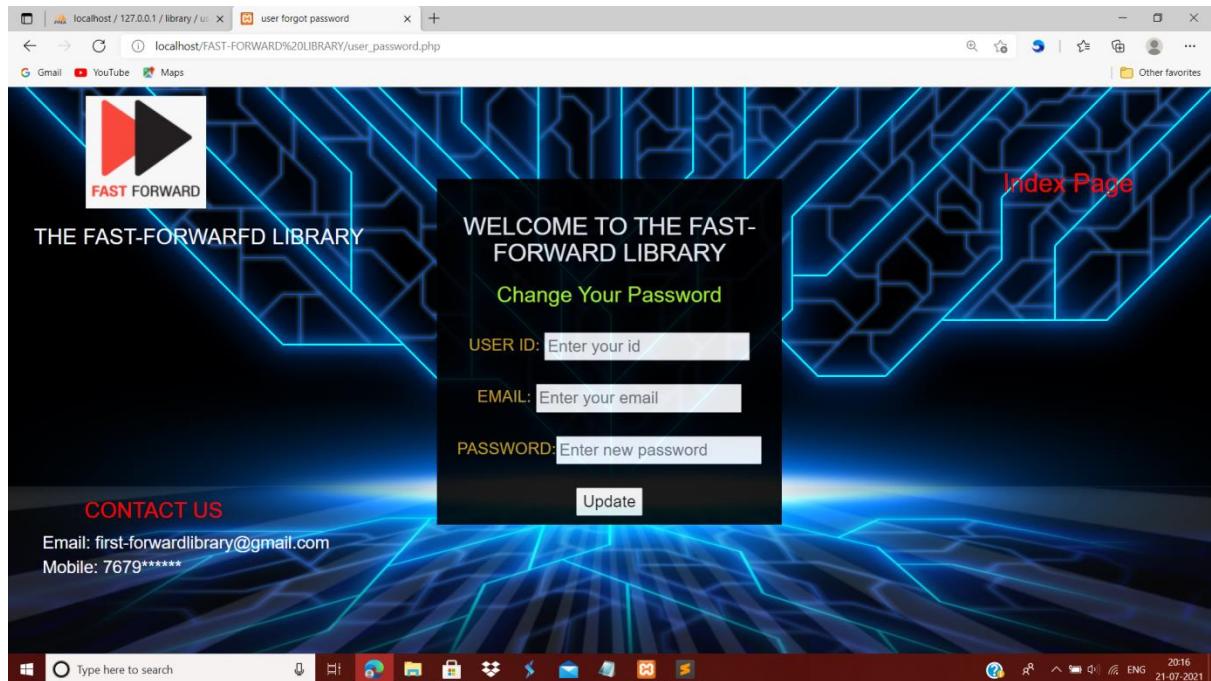
Login Page For User



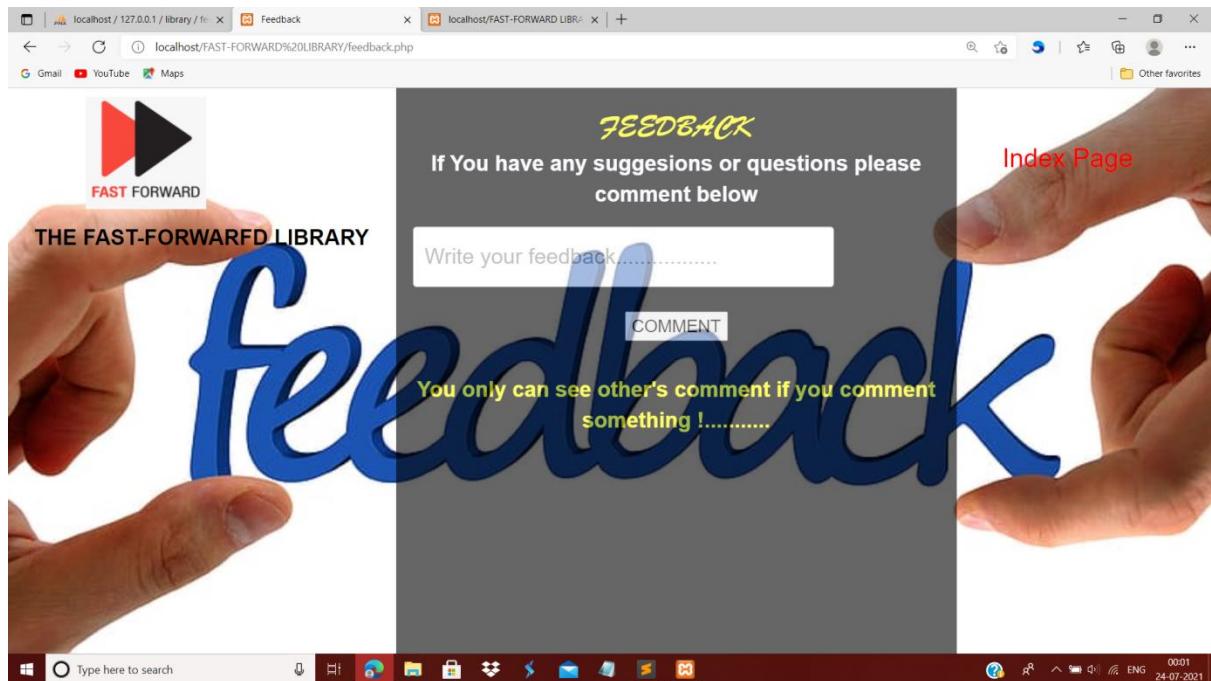
User Registration Page



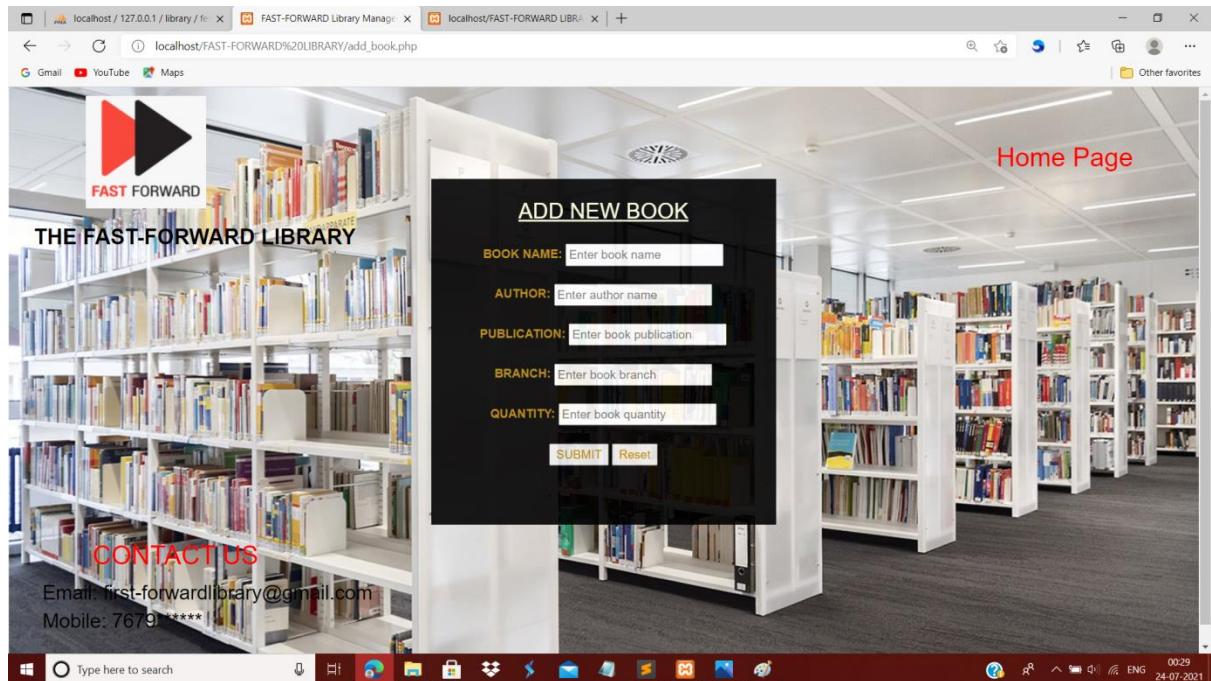
Forgot Password Page



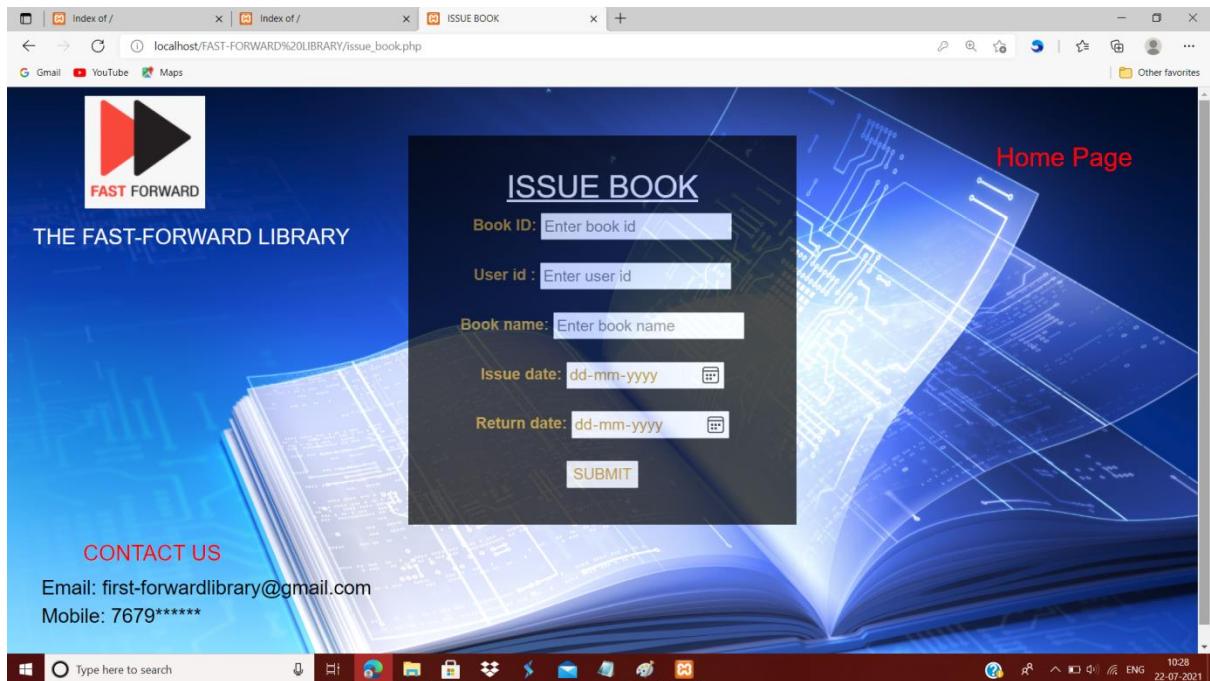
Feedback Page



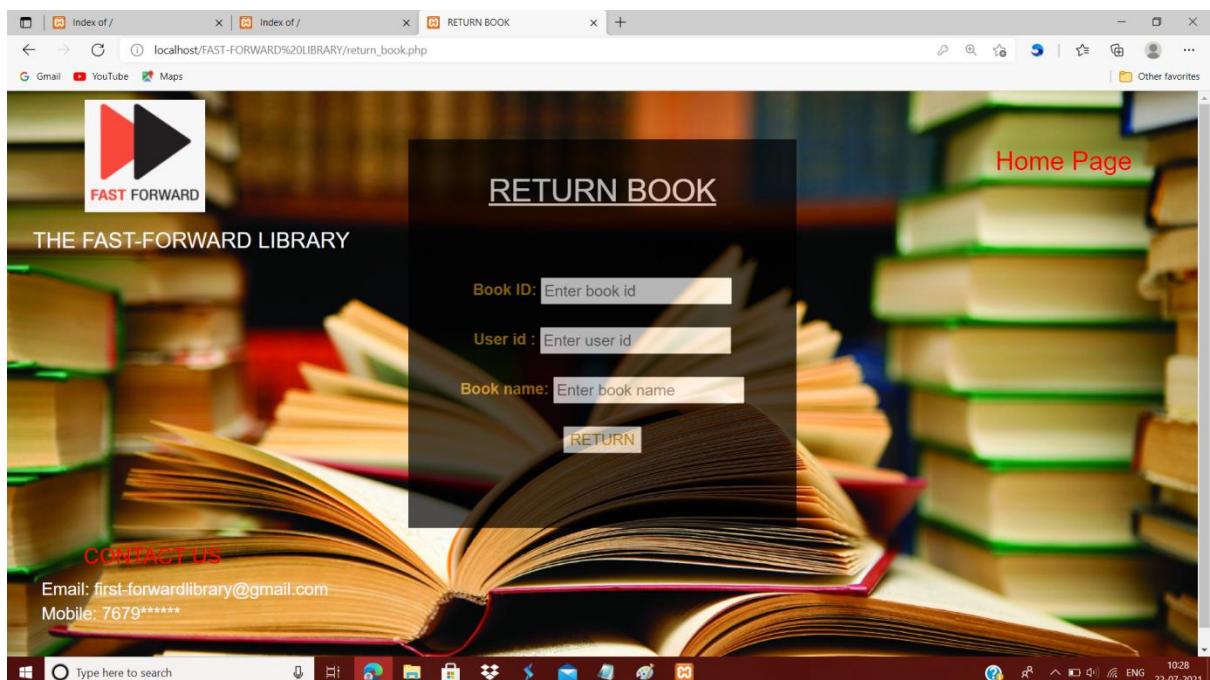
Add Book Page



Page For Issue Book



Page For Return Book



CHAPTER 5

SYSTEM TESTING

The aim of the system testing process was to determine all defects in our project .The program was subjected to a set of test inputs and various observations were made and based on these observations it will be decided whether the program behaves as expected or not.

Our Project went through two levels of testing

1. *Unit testing*
2. *integration testing*

5.1 UNIT TESTING

Unit testing is undertaken when a module has been created and successfully reviewed .In order to test a single module we need to provide a complete environment i.e, besides the module we would require

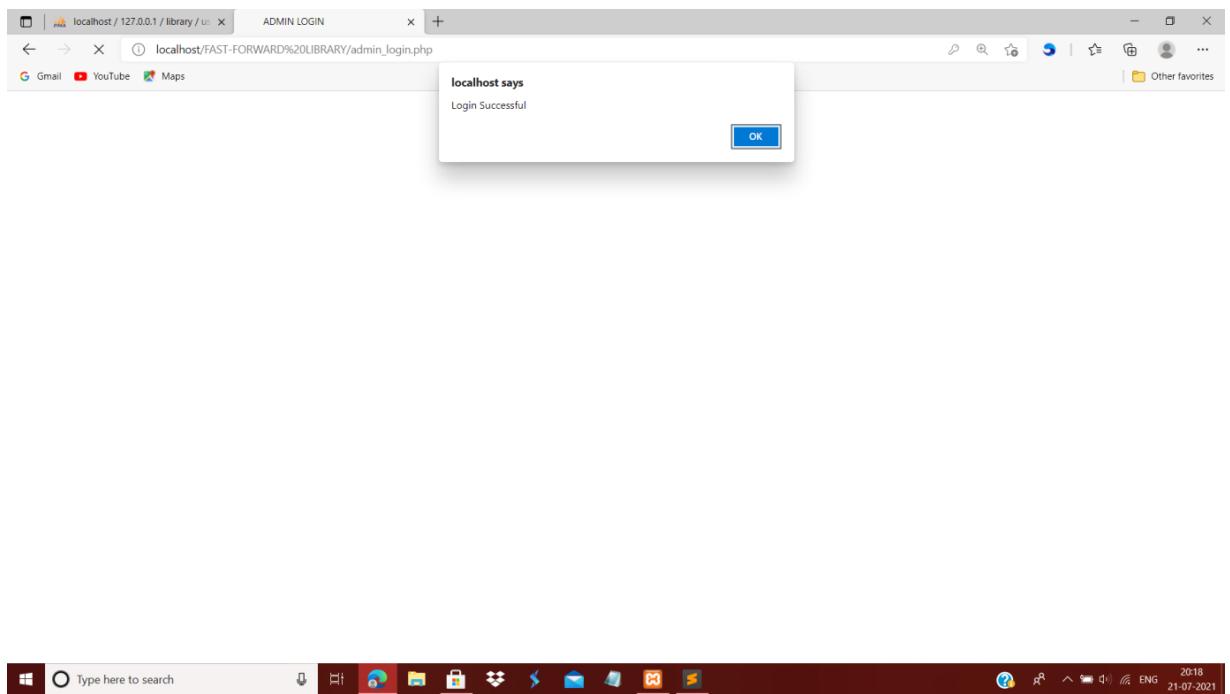
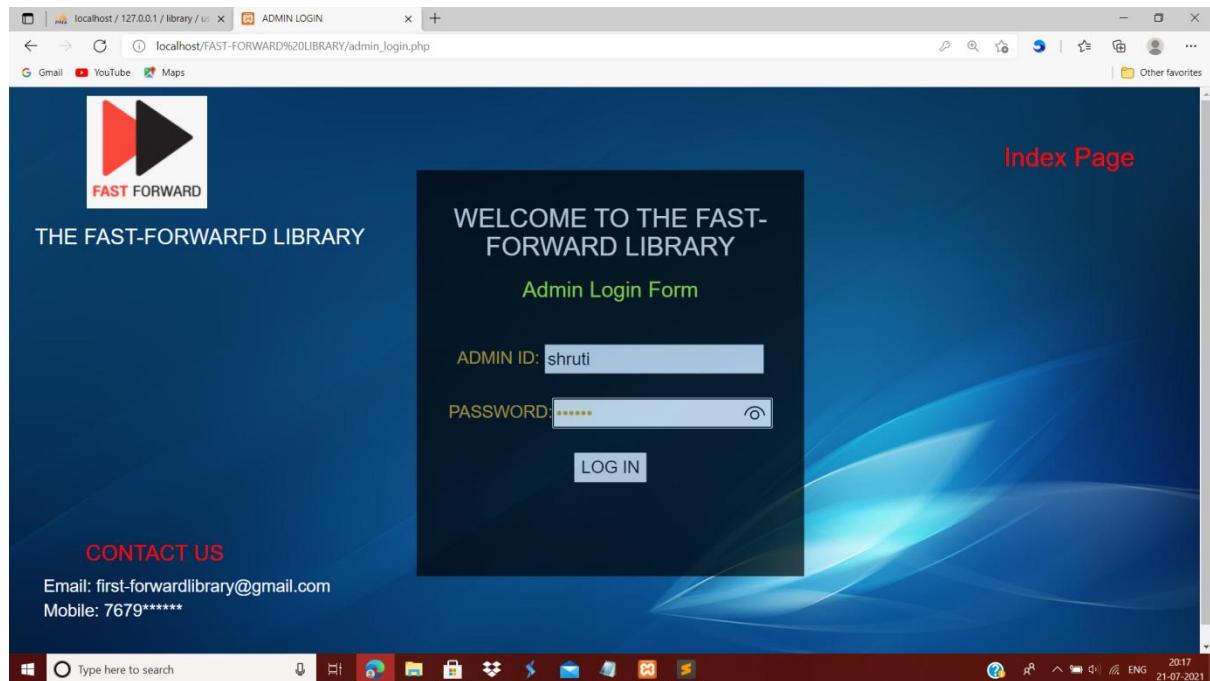
- *The procedures belonging to other modules that the module under test calls*
- *Non local data structures that module accesses*
- *A procedure to call the functions of the module under test with appropriate*

Parameters Unit testing was done on each and every module that is described under module description of chapter 4

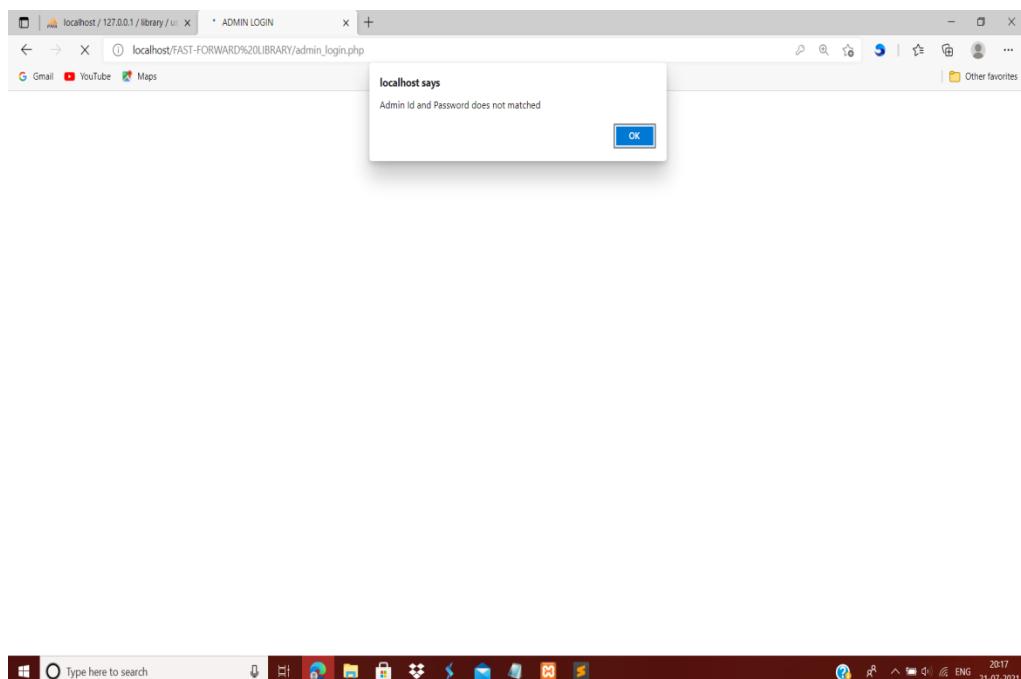
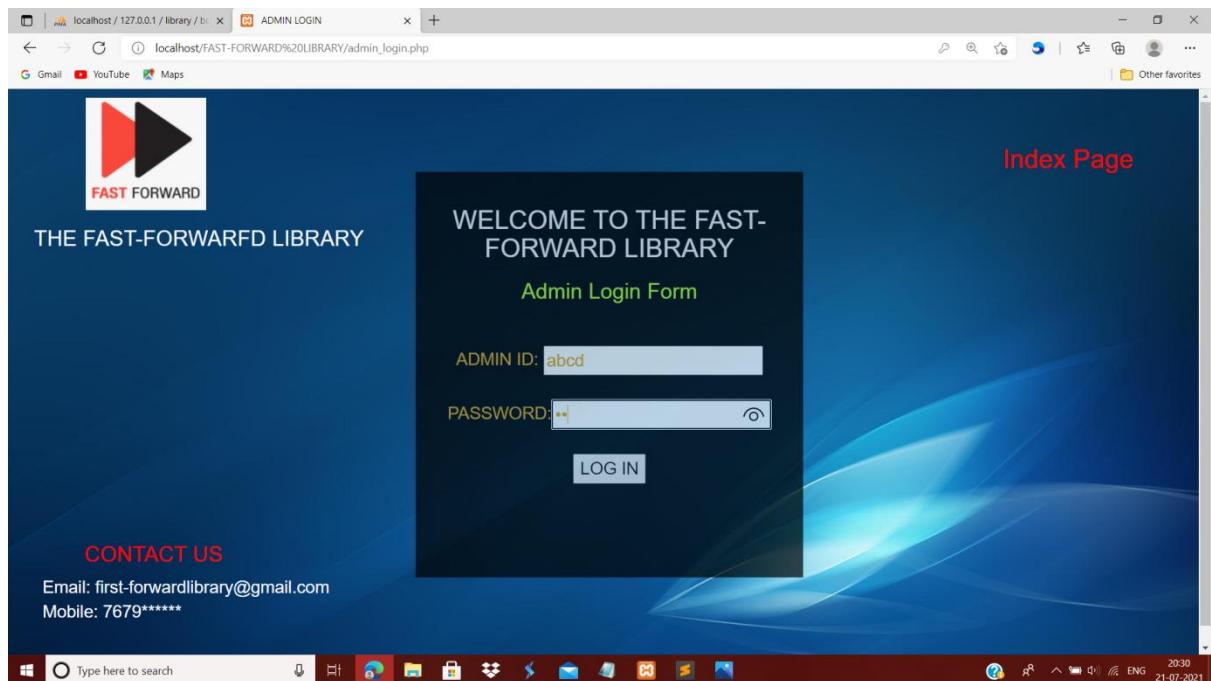
5.1.1 Test For the admin module

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.

Using Right Email id and Password



Using Wrong id and Password

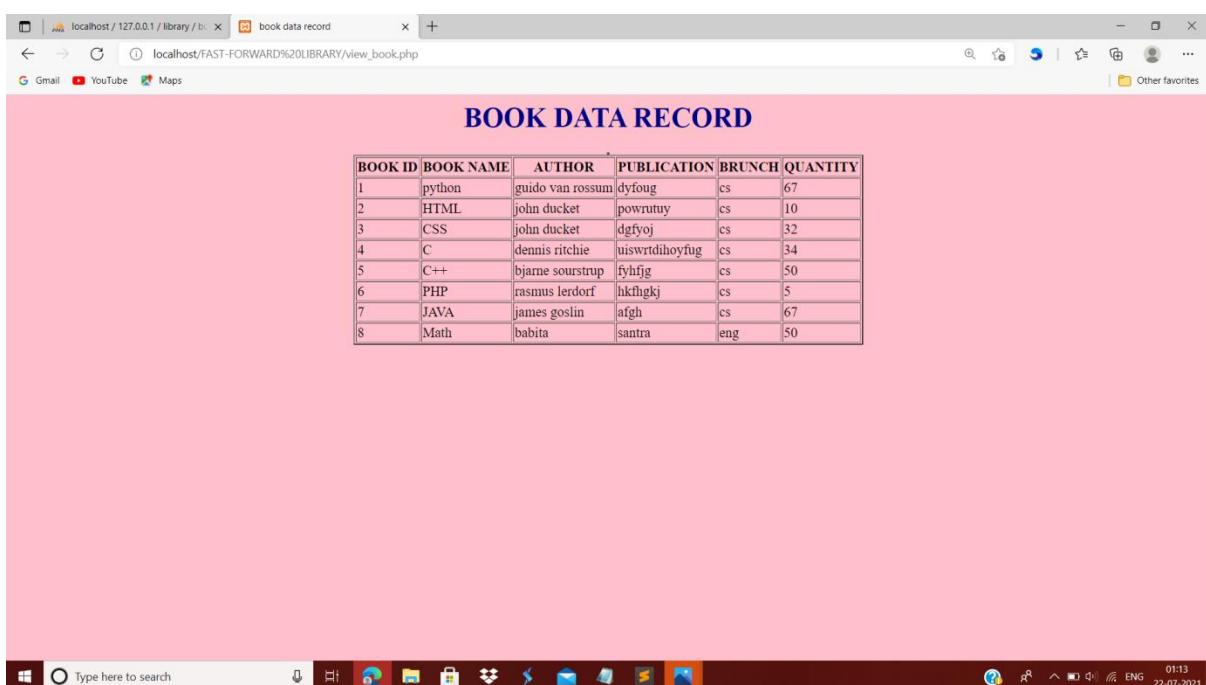


Administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for user id and password.

- ***Admin can only entered by his / her admin id and password.***
- ***Admin can add books.***
- ***Admin can view the book list (book id, book name, author name of the book, publication name, branch name and the quantity of the books).***
- ***Admin can view all book reports such as who issued which book and when will he/ she returned the book.***
- ***Admin can also view existing members and also if someone registered as a new member.***

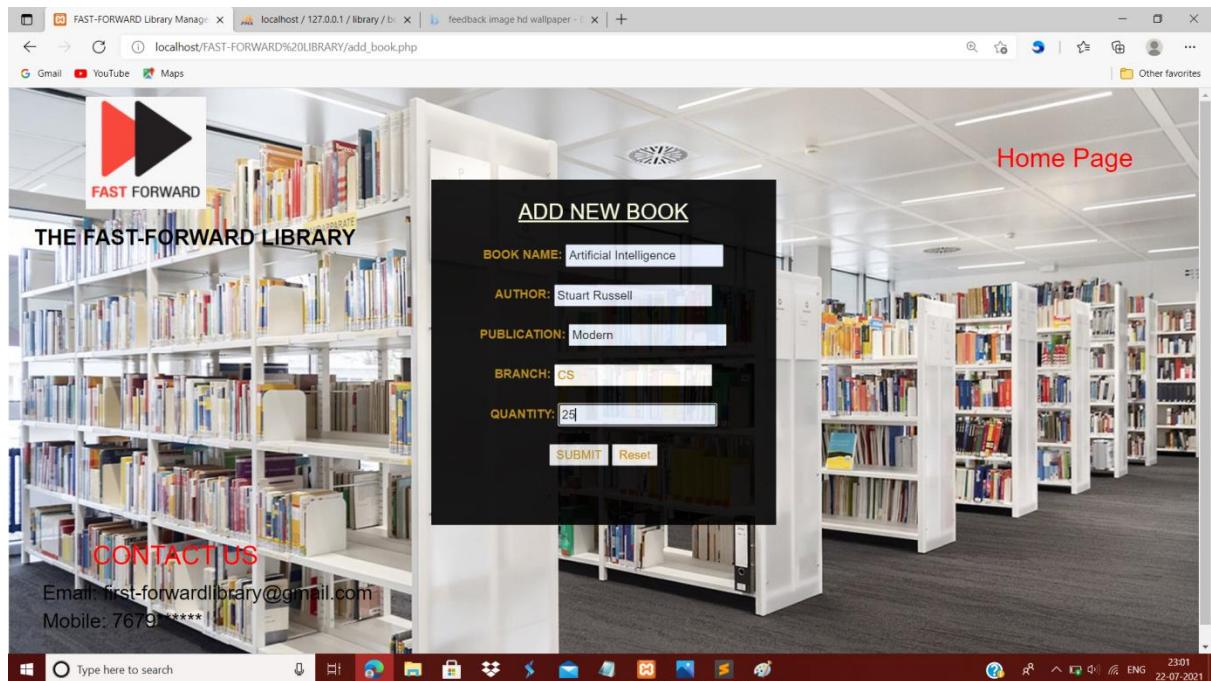
5.1.2 Test for book addition

Book Data Before Adding Book

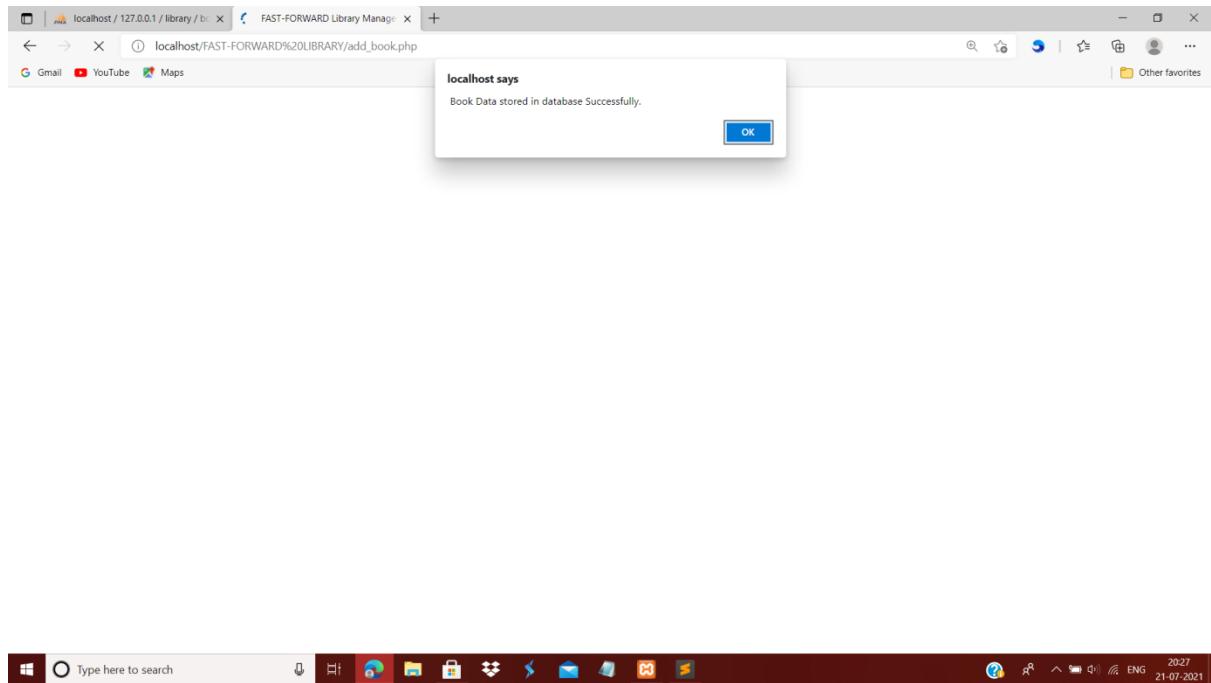


BOOK ID	BOOK NAME	AUTHOR	PUBLICATION	BRUNCH	QUANTITY
1	python	guido van rossum	dyfouq	cs	67
2	HTML	john ducket	pownutuy	cs	10
3	CSS	john ducket	dgfyoj	cs	32
4	C	dennis Ritchie	uiswrdihoyfug	cs	34
5	C++	bjame sourstrup	fyhfig	cs	50
6	PHP	rasmus lerdorf	hkfhgkj	cs	5
7	JAVA	james goslin	afgh	cs	67
8	Math	babita	santra	eng	50

Add New Book



Successfully Added



Book Data After Adding The Book

BOOK ID	BOOK NAME	AUTHOR	PUBLICATION	BRUNCH	QUANTITY
1	python	guido van rossum	dyfoug	cs	67
2	HTML	john ducket	powrutuy	cs	10
3	CSS	john ducket	dgfyoj	cs	32
4	C	dennis Ritchie	uiswrtdihoyfug	cs	34
5	C++	bjarne stroustrup	fyhfjg	cs	50
6	PHP	rasmus lerdorf	hkfhgkj	cs	5
7	JAVA	james goslin	afgh	cs	67
8	Math	babita	santra	eng	50
9	Artificial Intelligence	Stuart Russell	Modern	CS	25

5.1.3 Test for user login module

- *Test for User login Form-This form is used for log in of User .In this they enter their user id and password if all these are correct user login page will open other wise if any of data is wrong it will get redirected back to the login page and again ask for user id and password.*
- *Test for account creation- This form is used for new account creation. When User does not fill the form completely it asks again to fill the whole form. when he fill the form fully it gets redirected to page where he can login to the home page.*

User Database

The screenshot shows the phpMyAdmin interface for a MySQL database named 'library'. The left sidebar lists databases like 'information_schema', 'library', 'mysql', etc. The 'userdata' table is selected in the 'Tables' section. The main area displays 11 rows of data:

	firstname	lastname	userid	phone	email	password
<input type="checkbox"/>	ani	mandal	ani	7645892314	a@gmail.com	ani
<input type="checkbox"/>	Babita	Mahato	babi	7698698757	bobi@gmail.com	babi
<input type="checkbox"/>	Mani	mahato	mani	5643128907	m@gmail.com	mani
<input type="checkbox"/>	Moumita	Goswami	moumita	2398765674	moumita@gmail.com	moumita
<input type="checkbox"/>	Priya	Dutta	priya	6734231569	p@gmail.com	priya
<input type="checkbox"/>	Rimpa	mahato	rimpa	7806543455	r@gmail.com	rimpa
<input type="checkbox"/>	Riya	fhgjbl	riya	4579531568	ri@gmail.com	riya
<input type="checkbox"/>	Ganga	sardar	sing	2345987645	s@gmail.com	sing
<input type="checkbox"/>	Shruti	Pathak	shruti	7679532692	s@gmail.com	shruti
<input type="checkbox"/>	Shruti	Pathak	spatnak	7679532692	shrutipathak12321@gmail.com	spatnak
<input type="checkbox"/>	Tithi	Pathak	tithi	6784563219	t@gmail.com	pathak

For Wrong User Login

The screenshot shows a user login form titled 'WELCOME TO THE FAST-FORWARD LIBRARY'. The form includes fields for 'USER ID' (containing 'abcd') and 'PASSWORD' (containing '****'). Below the form are links for 'Forgot password?' and 'New to this website? SIGN UP'. The background features a colorful abstract design with a play button icon and text 'THE FAST-FORWARFD LIBRARY' and 'CONTACT US' with email/mobile details.

WELCOME TO THE FAST-FORWARD LIBRARY

User Login Form

USER ID: abcd

PASSWORD: ****

LOG IN

Forgot password?

New to this website? [SIGN UP](#)

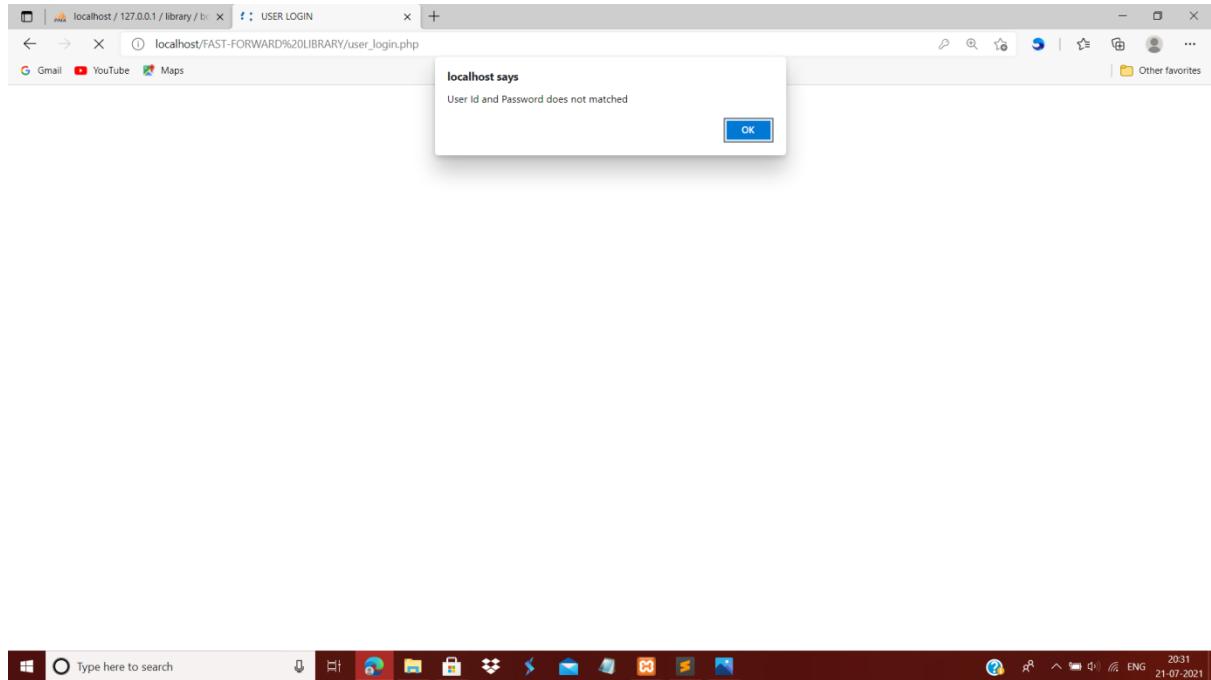
THE FAST-FORWARFD LIBRARY

CONTACT US

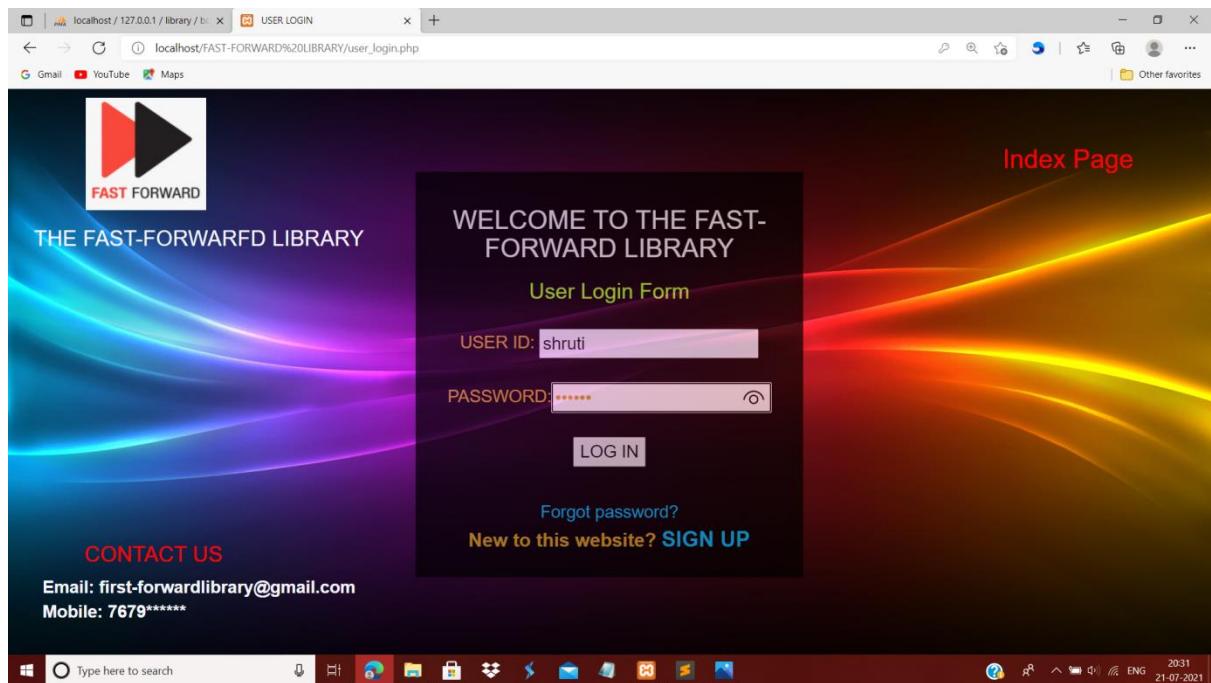
Email: first-forwardlibrary@gmail.com

Mobile: 7679*****

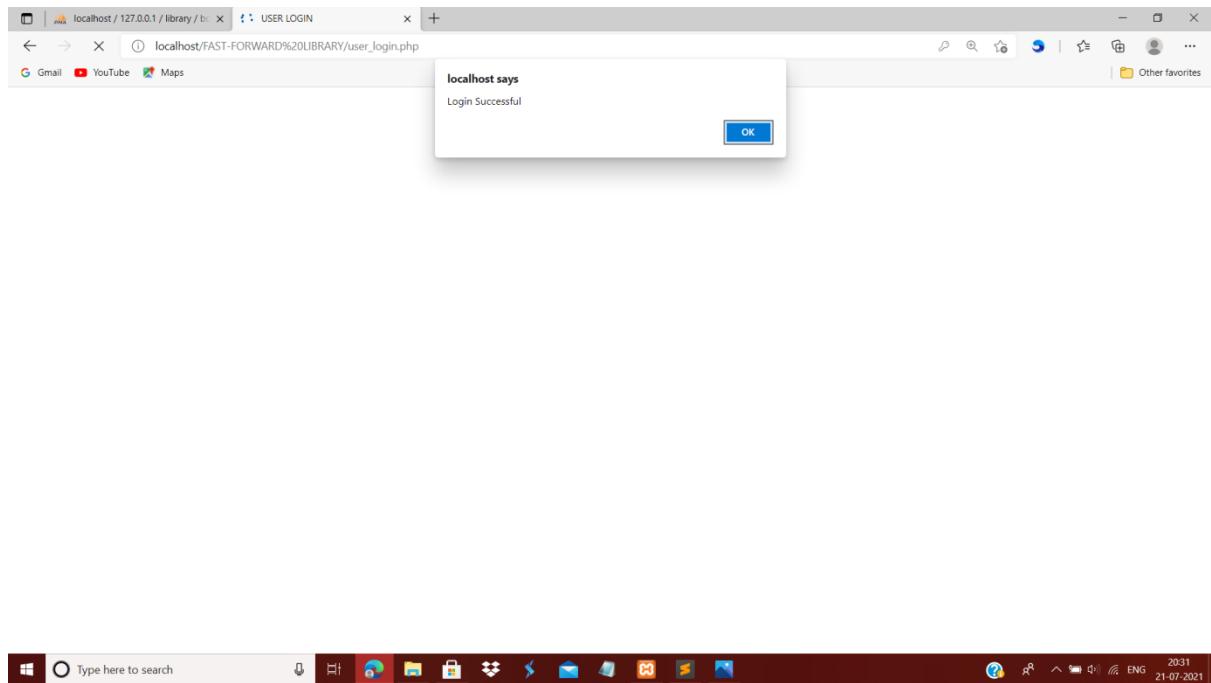
Can't Login



For Right User Login



User Login Successful



5.1.4 TESTING FOR ISSUE BOOK

Issue Book Report Before

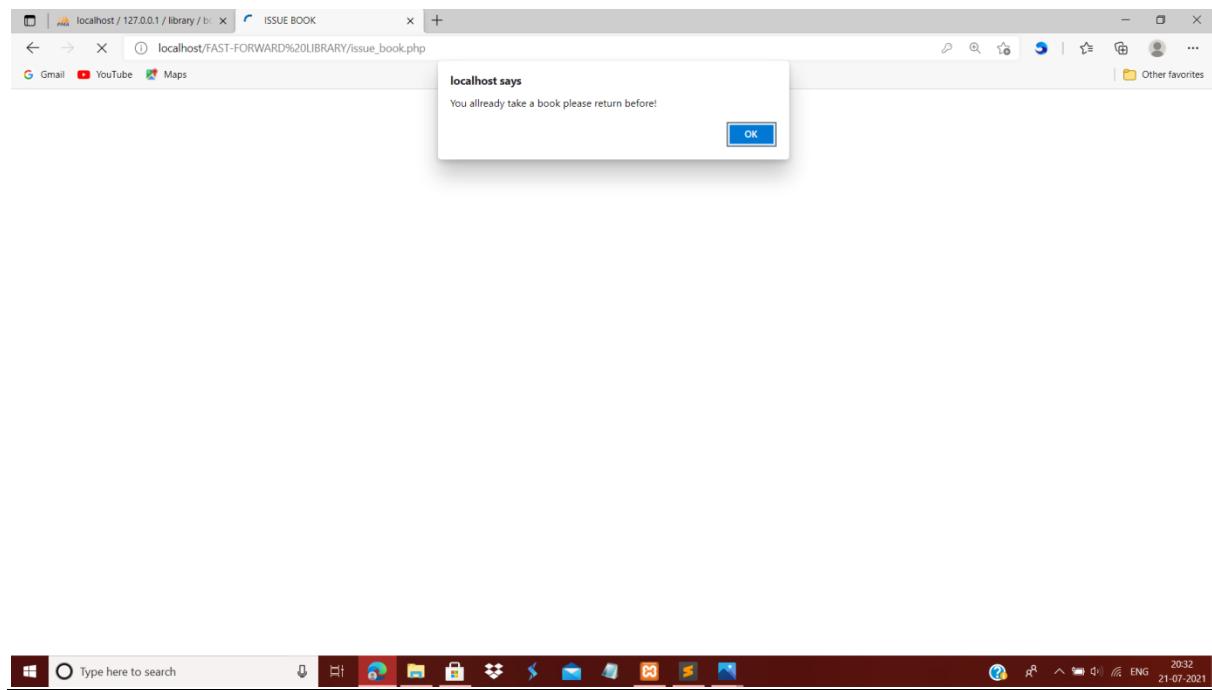
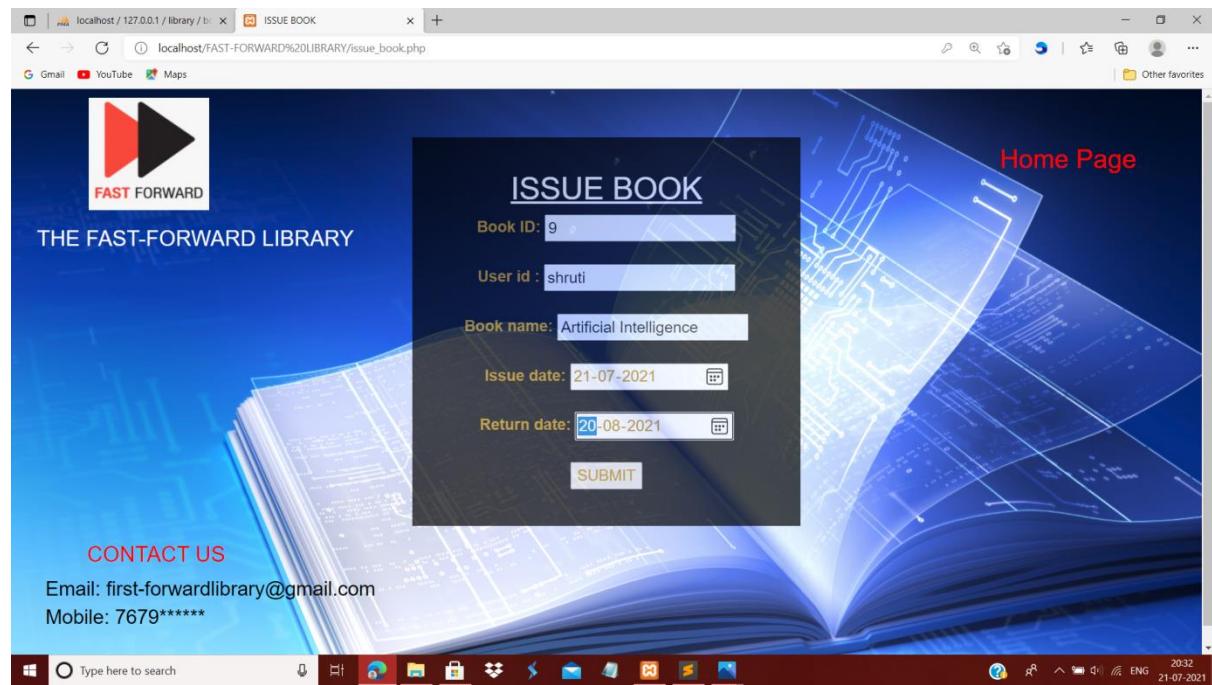
The screenshot shows a Microsoft Edge browser window with the URL 'localhost / 127.0.0.1 / library / book_report.php'. The page title is 'ISSUE BOOK REPORT'. Below it is a table with the following data:

BOOK ID	USER ID	BOOK NAME	ISSUE DATE	RETURN DATE
3	mani	CSS	2021-07-21	2021-08-20
4	mounita	C	2021-07-15	2021-08-14
6	riya	PHP	2021-07-08	2021-08-07
2	shruti	HTML	2021-07-04	2021-08-03
7	tithi	JAVA	2021-07-07	2021-08-06

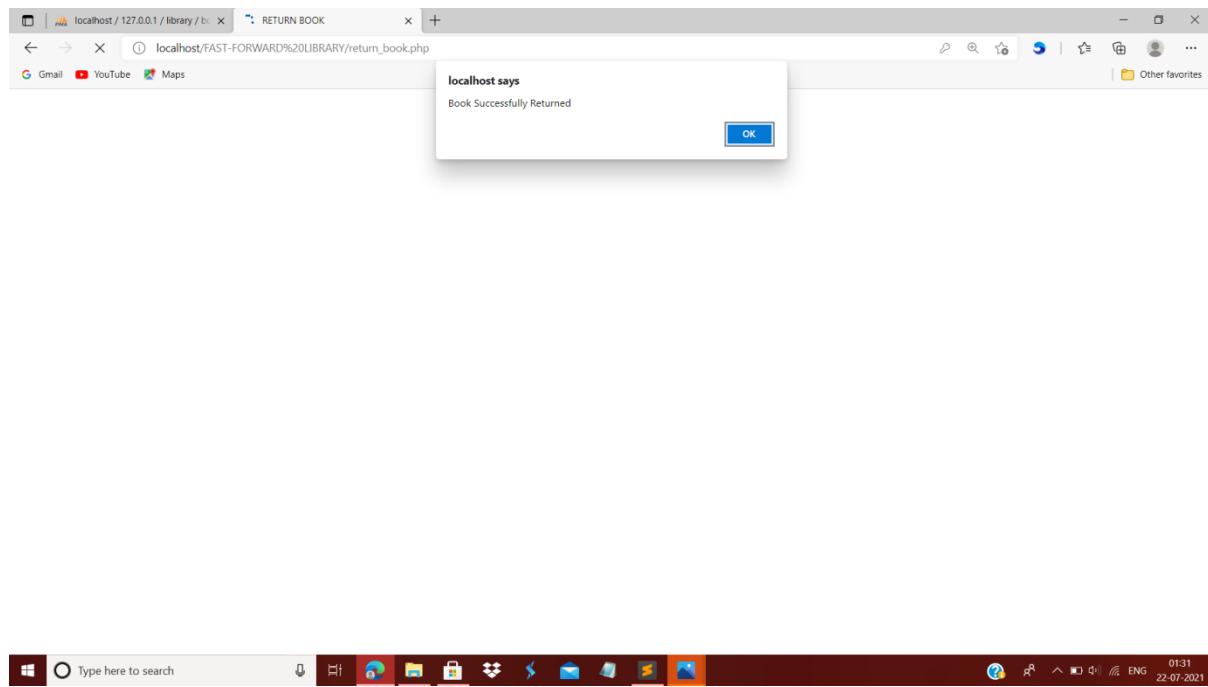
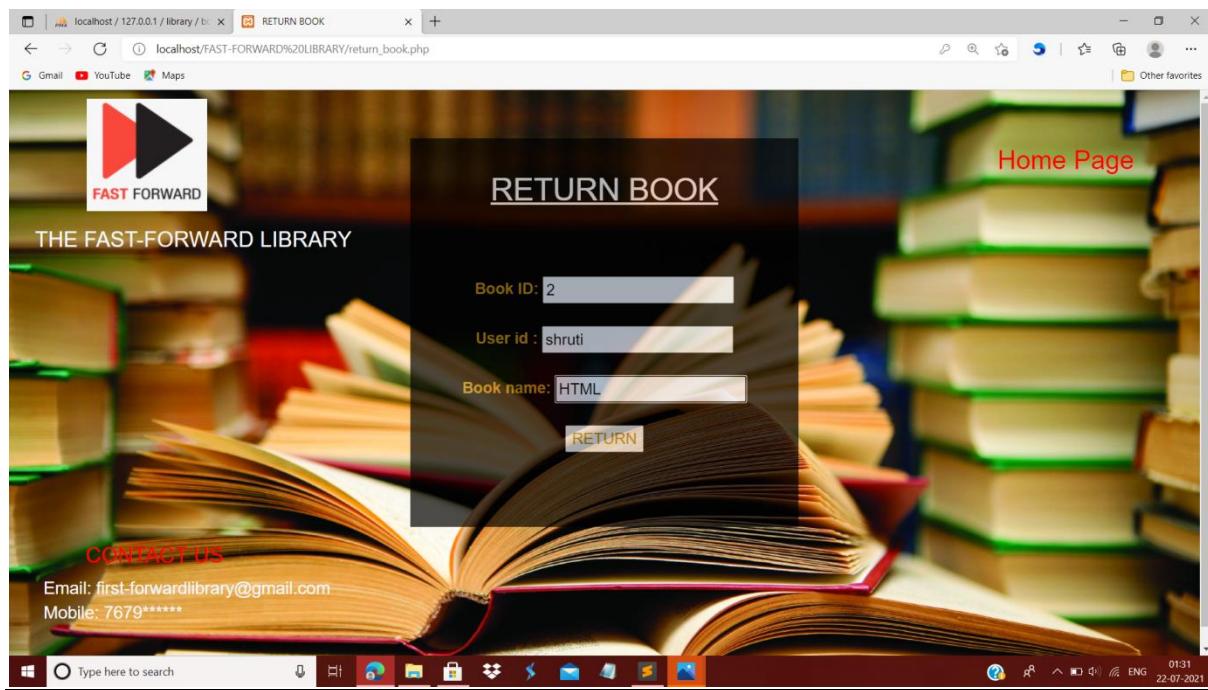
A red arrow points to the last row of the table, specifically to the 'RETURN DATE' column for the book 'JAVA'.

[Home Page](#)

Issue A Book With Same User ID Who Already Took A Book



Must Return Before



Book Return Complete

The screenshot shows a web browser window with the URL `localhost/FAST-FORWARD%20LIBRARY/book_report.php`. The page title is "ISSUE BOOK REPORT". A table lists seven books with their details:

BOOK ID	USER ID	BOOK NAME	ISSUE DATE	RETURN DATE
3	mani	CSS	2021-07-21	2021-08-20
4	moumita	C	2021-07-15	2021-08-14
6	riya	PHP	2021-07-08	2021-08-07
7	tithi	JAVA	2021-07-07	2021-08-06

On the right side of the page, there is a link labeled "Home Page". Below the table, a pink banner displays the message: "THE HTML BOOK IS RETURNED SUCCESSFULLY".

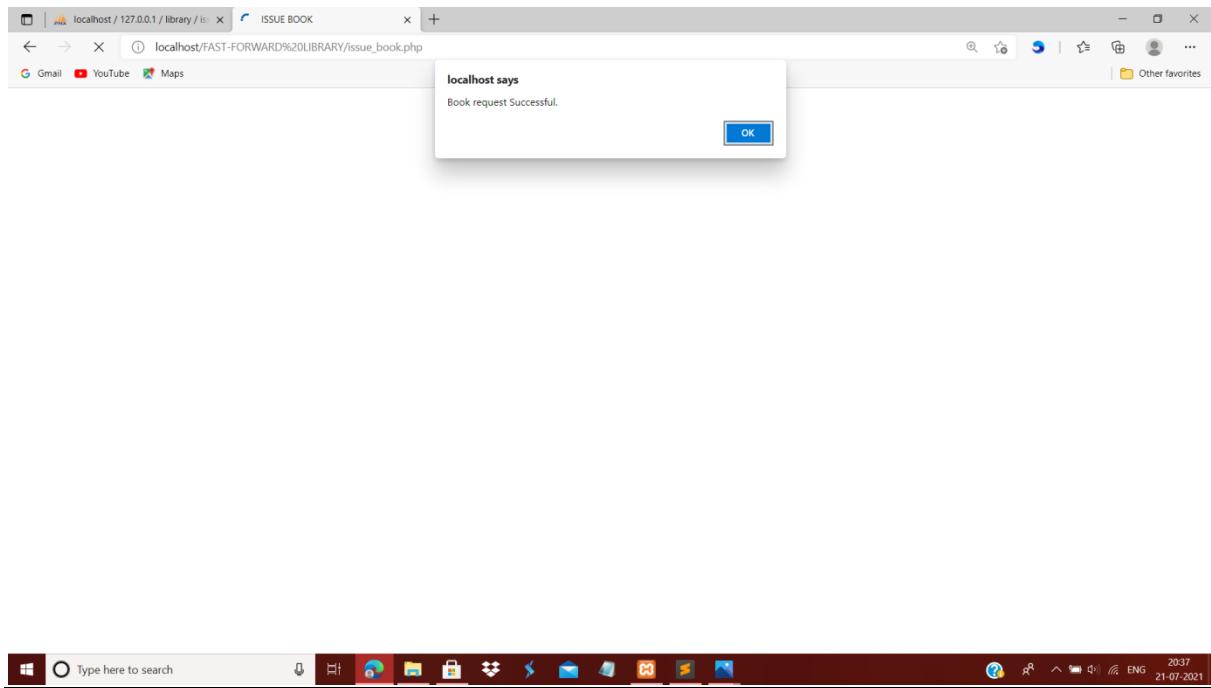
Now Issue A Book With That ID

The screenshot shows a web browser window with the URL `localhost/FAST-FORWARD%20LIBRARY/issue_book.php`. The page title is "ISSUE BOOK". The form fields are filled with the following data:

Book ID:	9
User id :	shruti
Book name:	Artificial Intelligence
Issue date:	23-07-2021
Return date:	22-08-2021

At the bottom of the form is a "SUBMIT" button. On the left side of the page, there is a logo for "THE FAST-FORWARD LIBRARY" featuring a red play button icon. On the right side, there is a link labeled "Home Page". At the bottom left, there is a "CONTACT US" section with email and mobile number information. The bottom of the screen shows a Windows taskbar.

Book Request Successful



Issue Book Report after Issue

A screenshot of a Microsoft Edge browser window. The address bar shows 'localhost / 127.0.0.1 / library / issue_book.php' and 'display issue record'. The title bar says 'localhost/FAST-FORWARD LIBRA'. On the right side of the page, there is a link 'Home Page' with a red arrow pointing towards it. The main content area has a yellow background and displays a table titled 'ISSUE BOOK REPORT'. The table has columns: BOOK_ID, USER_ID, BOOK_NAME, ISSUE_DATE, and RETURN_DATE. The data in the table is:

BOOK_ID	USER_ID	BOOK_NAME	ISSUE_DATE	RETURN_DATE
3	mani	CSS	2021-07-21	2021-08-20
4	mounmita	C	2021-07-15	2021-08-14
6	riya	PHP	2021-07-08	2021-08-07
9	shruti	Artificial Intelligence	2021-07-23	2021-08-22
7	tithi	JAVA	2021-07-07	2021-08-06

Below the table, a pink text message reads 'The A.I. book is successfully issued now'.

The taskbar at the bottom shows various pinned icons and the date '24-07-2021'.

5.1.5 TESTING FOR FORGOT PASSWORD

User Data Record Before Updating Password

FIRST NAME	LAST NAME	USER ID	PHONE NO	EMAIL	PASSWORD
Babita	Mahato	babi	7698698757	bobi@gmail.com	babi
Mani	mahato	mani	5643128907	m@gmail.com	mani
Mounmita	Goswami	mounmita	2398765674	mounmita@gmail.com	mounmita
Priya	Dutta	priya	6734231569	p@gmail.com	priya
rimpa	mahato	rimpa	7806543455	r@gmail.com	rimpa
riya	fhgjbl	riya	4579531568	ri@gmail.com	riya
Ganga	sing	sardar	2345987645	g@gmail.com	sing
Shruti	Pathak	shruti	7679532692	s@gmail.com	shruti
Shruti	Pathak	spatnak	7679532692	shrutipathak12321@gmail.com	spatnak
Tithi	Pathak	tithi	6784563219	t@gmail.com	pathak

[Home Page](#)

BEFORE UPDATING
PASSWORD

Change Your Password With Wrong Info

WELCOME TO THE FAST-FORWARD LIBRARY

Change Your Password

USER ID:

EMAIL:

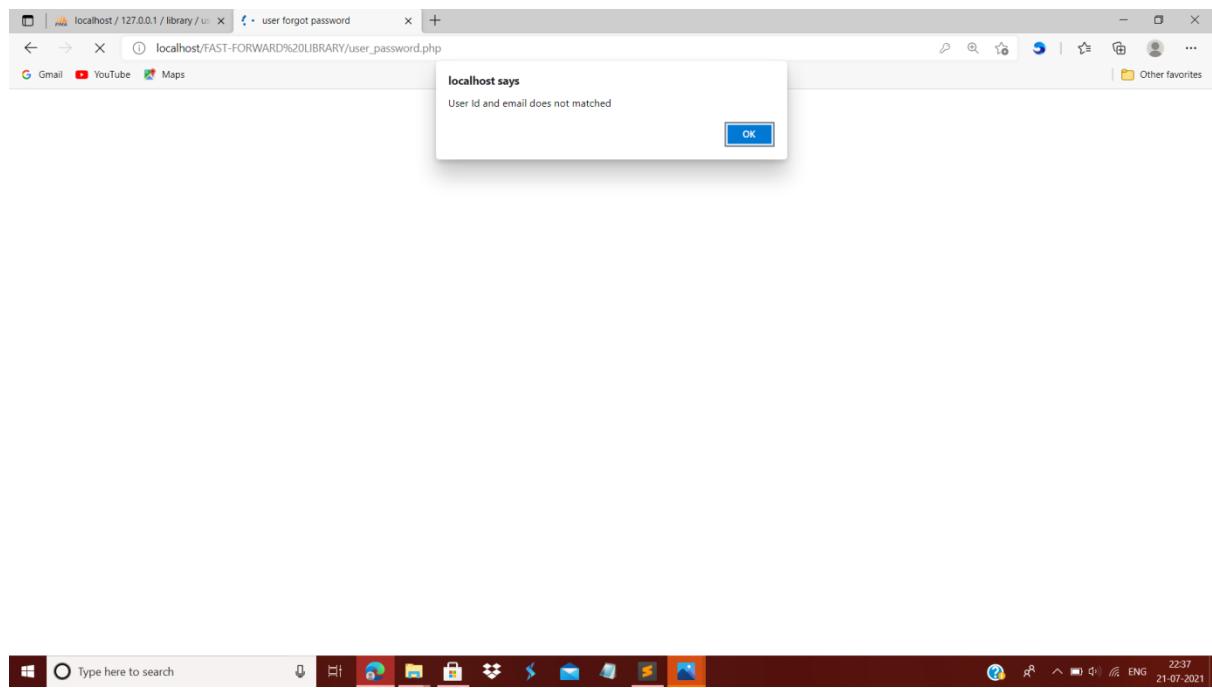
PASSWORD:

CONTACT US

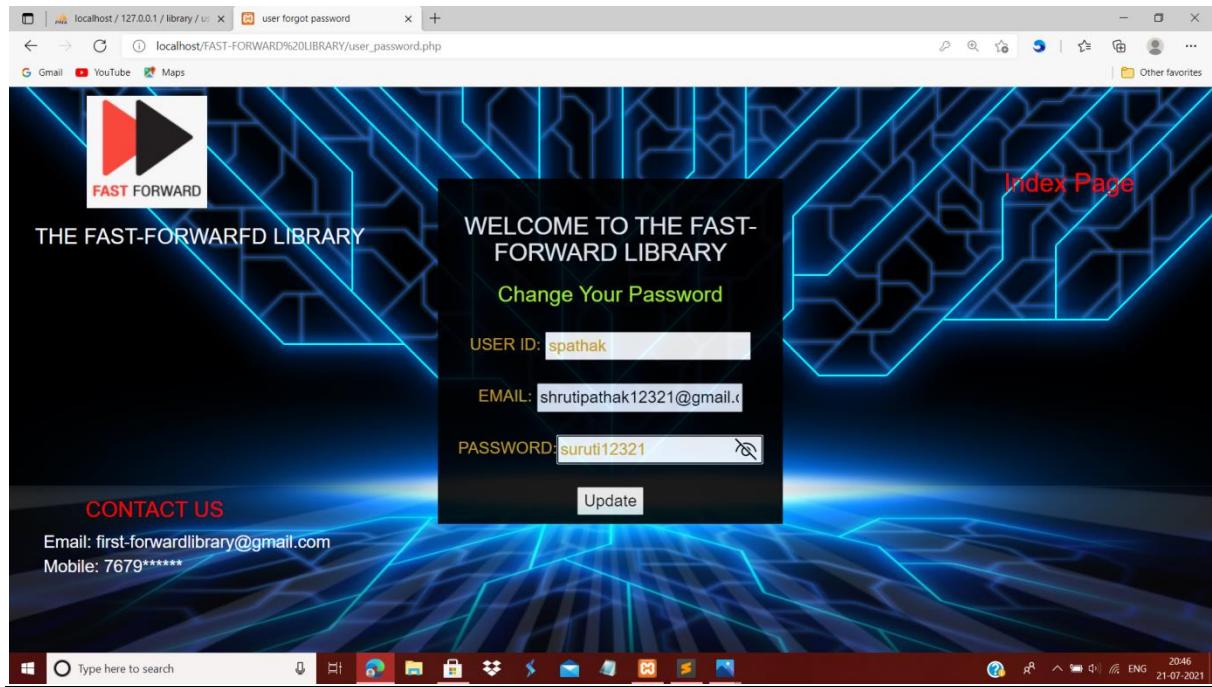
Email: first-forwardlibrary@gmail.com
Mobile: 7679*****

Index Page

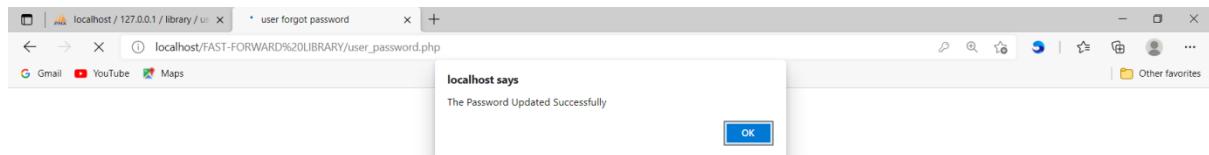
User ID and Password Does Not Matched



Change Your Password With Right Info



Password Updated



Updated User data Record

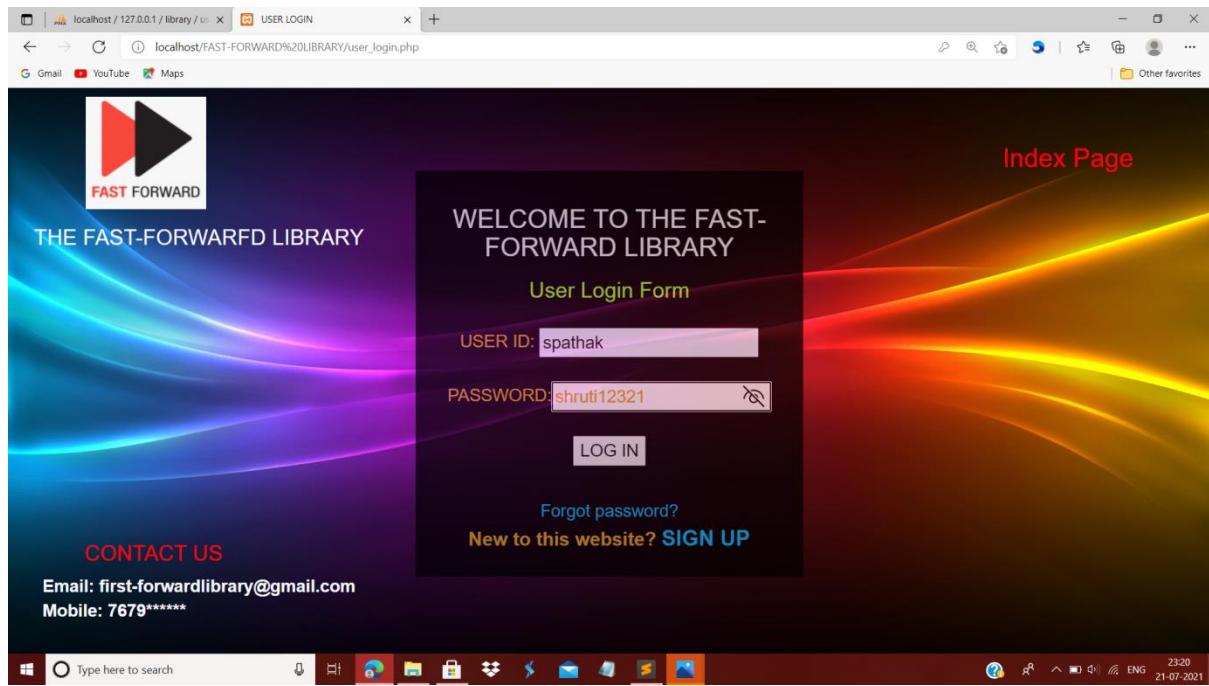
A screenshot of a Microsoft Edge browser window. The address bar shows 'localhost / 127.0.0.1 / library / user_data_record'. The main content is titled 'USER DATA RECORD' and displays a table of user data:

FIRST NAME	LAST NAME	USER ID	PHONE NO	EMAIL	PASSWORD
Babita	Mahato	babi	7698698757	bobi@gmail.com	babi
Mani	mahato	mani	5643128907	m@gmail.com	mani
Moumita	Goswami	moumita	2398765674	moumita@gmail.com	moumita
Priya	Dutta	priya	6734231569	p@gmail.com	priya
rimpa	mahato	rimpa	7806543455	r@gmai.com	rimpa
riya	fhgjbl	riya	4579531568	ri@gmail.com	riya
Ganga	sing	sardar	2345987645	g@gmail.com	sing
Shruti	Pathak	shruti	7679532692	s@gmail.com	shruti
Shruti	Pathak	spatnak	7679532692	shrutipathak12321@gmail.com	shruti12321
Tithi	Pathak	tithi	6784563219	t@gmail.com	pathak

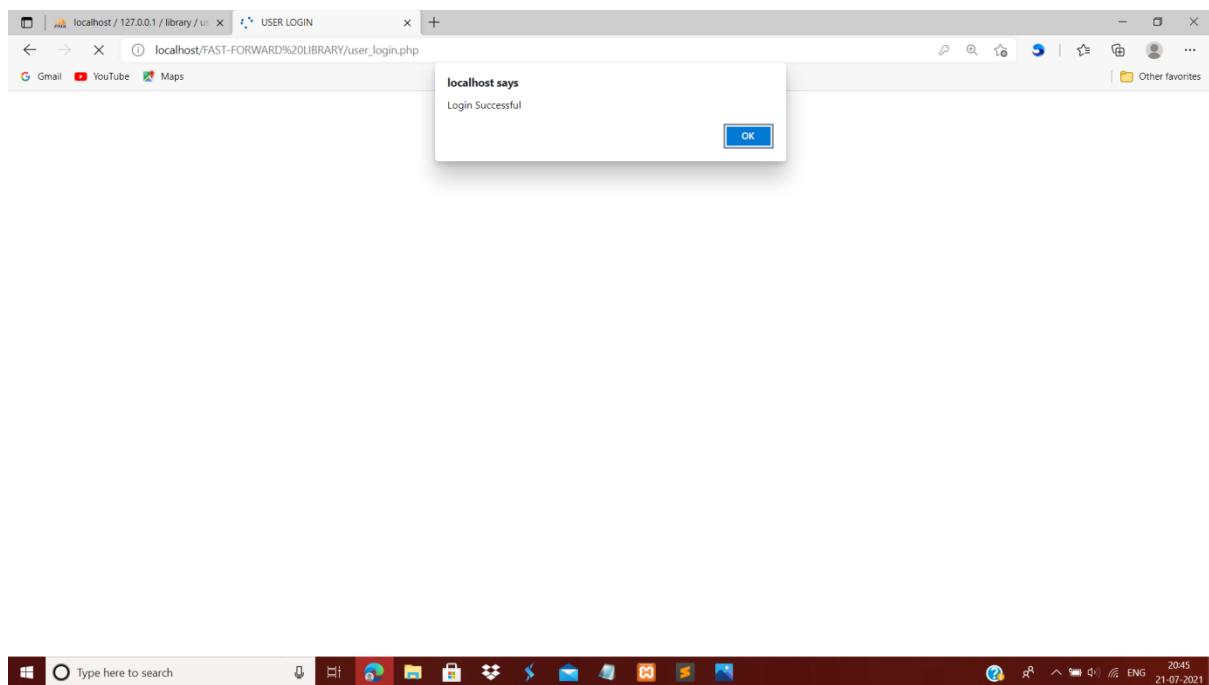
An annotation with a red arrow points to the last row for 'Shruti Pathak' with the text 'AFTER UPDATING PASSWORD'.

A screenshot of the Windows taskbar at the bottom, identical to the one above.

Now Login With Changed Password



Login Successful



2.INTEGRATION TESTING

In this type of testing we test various integration of the project module by providing the input.

The primary objective is to test the module interfaces in order to ensure that no errors are occurring when one module invokes the other module.

- **REGISTRATION MODULE**

Screenshot of User data Before Registration

A screenshot of a Microsoft Edge browser window displaying a table titled "USER DATA RECORD". The table lists ten user entries with columns for FIRST NAME, LAST NAME, USER ID, PHONE NO, EMAIL, and PASSWORD. A red annotation "User data record before Registration" is overlaid on the table. In the top right corner of the browser window, there is a link labeled "Home Page". The browser's address bar shows "localhost / 127.0.0.1 / library / user data record" and the URL "localhost/FAST-FORWARD%20LIBRARY/view_member.php". The taskbar at the bottom of the screen includes icons for File Explorer, Edge, File Manager, Task View, Start, Taskbar settings, Mail, Photos, OneDrive, and File History. The system tray shows battery level, signal strength, and network status, along with the date and time "22-07-2021 00:41".

FIRST NAME	LAST NAME	USER ID	PHONE NO	EMAIL	PASSWORD
Babita	Mahato	babi	7698698757	bobi@gmail.com	babi
Mani	mahato	mani	5643128907	m@gmail.com	mani
Mouniita	Goswami	mouniita	2398765674	mouniita@gmail.com	mouniita
Priya	Dutta	priya	6734231569	p@gmail.com	priya
rimpa	mahato	rimpa	7806543455	r@gmail.com	rimpa
riya	fhgjbl	riya	4579531568	ri@gmail.com	riya
Ganga	sing	sardar	2345987645	g@gmail.com	sing
Shruti	Pathak	shruti	7679532692	s@gmail.com	shruti
Tithi	Pathak	tithi	6784563219	t@gmail.com	pathak

Registered With Same User ID

localhost / 127.0.0.1 / library / [REGISTRATION FORM](#)

localhost/FAST-FORWARD%20LIBRARY/registration.php

Index Page

WELCOME TO THE FAST-FORWARD LIBRARY

User Registration Form

FIRST NAME: Shruti LAST NAME: Pathak

USER ID: shruti

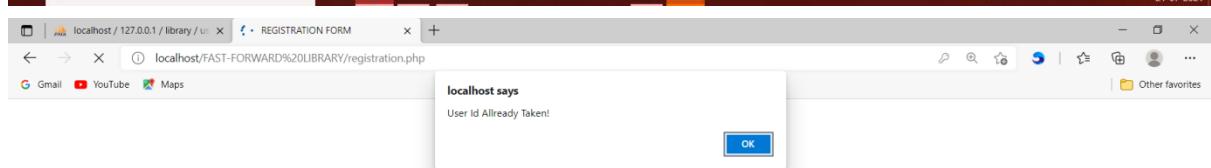
PHONE NO: 7679532692

EMAIL: shrutipathak12321@gmail.com

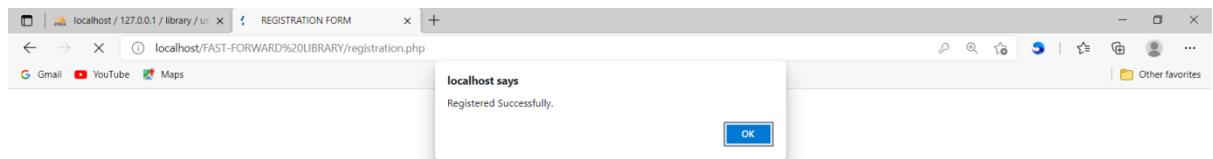
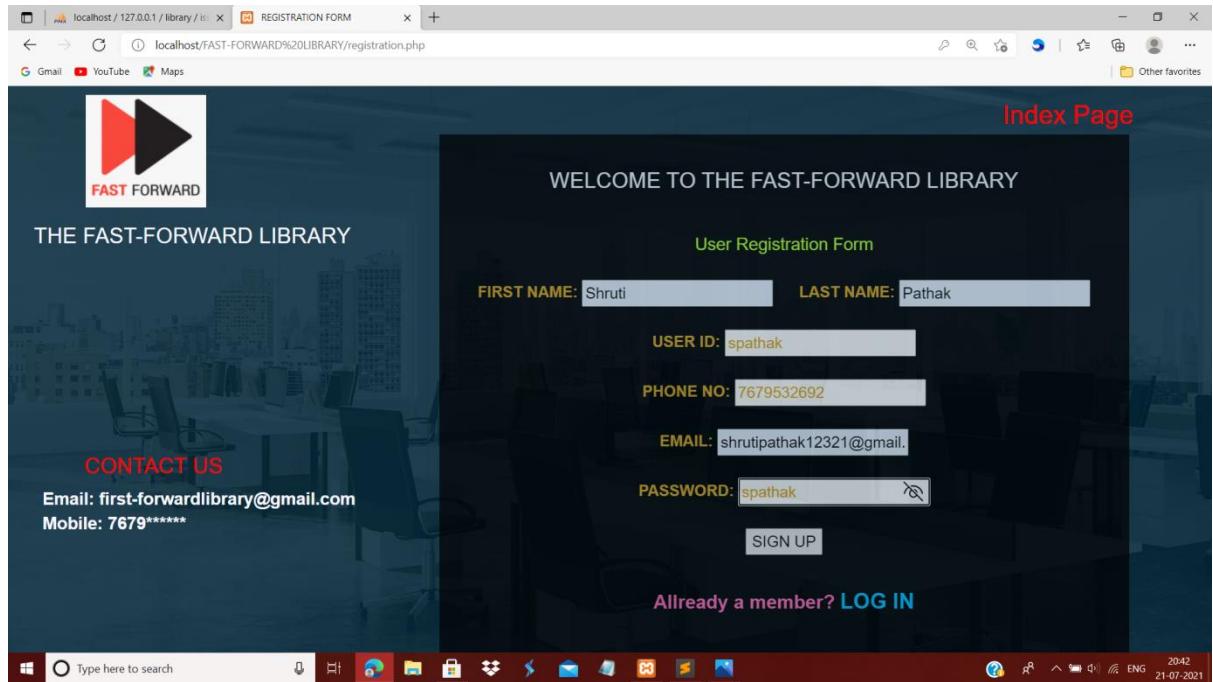
PASSWORD: *****

SIGN UP

Already a member? [LOG IN](#)



Registered Again With New User ID



User data Record After Registration

USER DATA RECORD

FIRST NAME	LAST NAME	USER ID	PHONE NO	EMAIL	PASSWORD
Babita	Mahato	babi	7698698757	bobi@gmail.com	babi
Mani	mahato	mani	5643128907	m@gmail.com	mani
Mounmita	Goswami	mounmita	2398765674	mounmita@gmail.com	mounmita
Priya	Dutta	priya	6734231569	p@gmail.com	priya
rimpa	mahato	rimpa	7806543455	r@gmai.com	rimpa
riya	fligibl	riya	4579531568	r@gmail.com	riya
Ganga	sing	sardar	2345987645	g@gmail.com	sing
Shruti	Pathak	shruti	7679532692	s@gmail.com	shruti
Shruti	Pathak	spatnak	7679532692	shrutipathak12321@gmail.com	spatnak
Tithi	Pathak	tithi	6784563219	t@gmail.com	pathak

User data record after
Registration

Login by The New User

WELCOME TO THE FAST-FORWARD LIBRARY

User Login Form

USER ID: spathak

PASSWORD: *****

LOG IN

Forgot password?
New to this website? SIGN UP

Index Page



TESTING FOR FEEDBACK

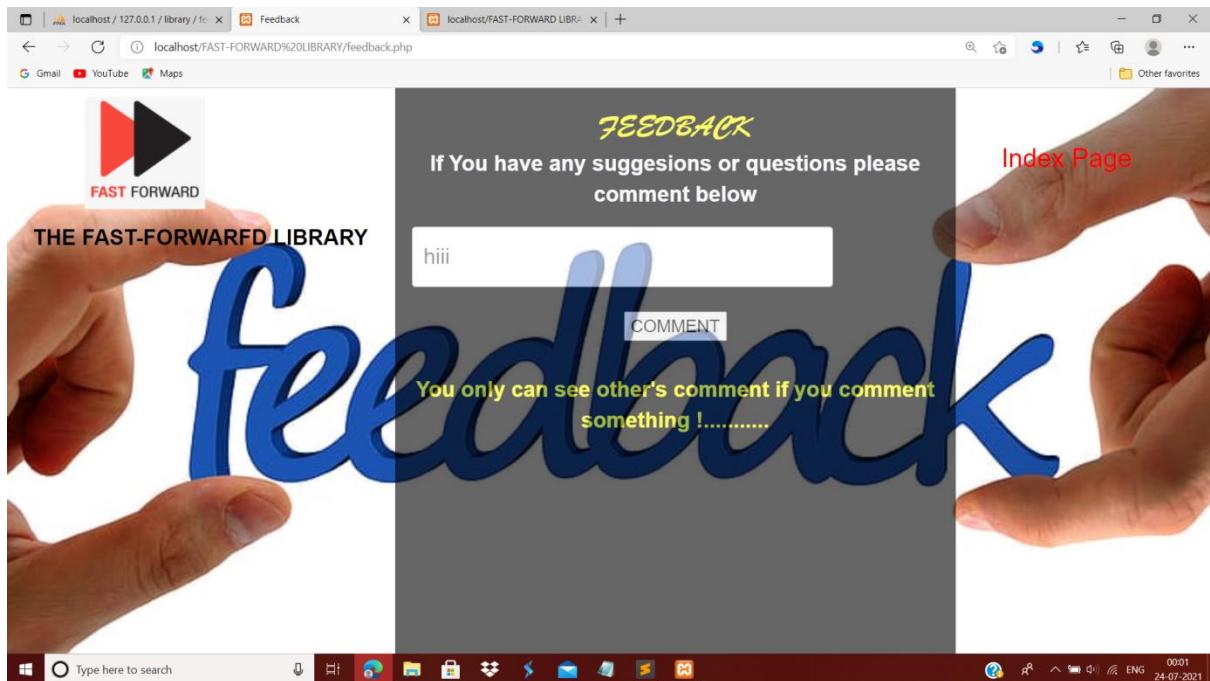
Database Before Entering Feedback

A screenshot of the phpMyAdmin interface. The left sidebar shows the database structure with "feedback" selected. The main panel displays the "feedback" table with the following data:

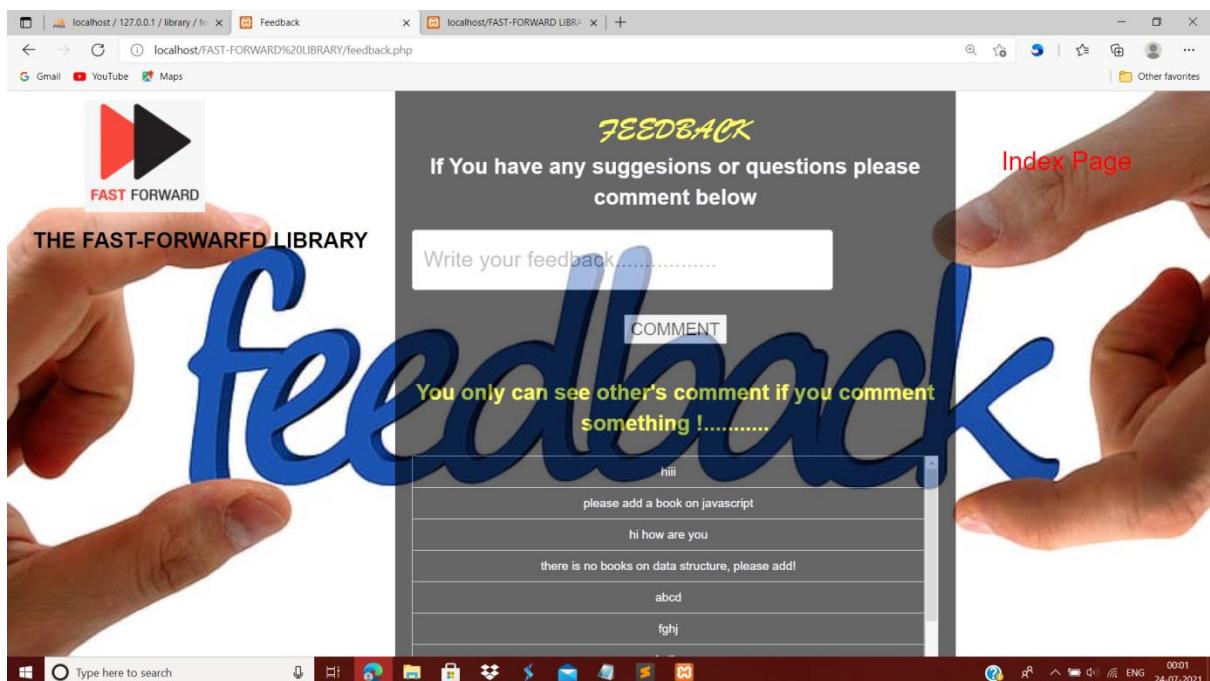
id	comment
7	please add a book on javascript
6	hi how are you
5	there is no books on data structure, please add!
4	abcd
3	fghj
2	hello
1	hi

The top navigation bar shows the URL "localhost/127.0.0.1/library/fe" and the title "Feedback". The bottom taskbar is identical to the one in the previous screenshot.

Enter Feedback



Successfully Add Feedback



Database After Entering Feedback

The screenshot shows the phpMyAdmin interface for a MySQL database named 'library'. The 'feedback' table is selected. A SQL query is visible in the top right: `UPDATE `feedback` SET `id` = '8' WHERE `feedback`.`id` = 78;`. Below it, the table data is displayed:

	id	comment
<input type="checkbox"/>	8	hill
<input type="checkbox"/>	7	please add a book on javascript
<input type="checkbox"/>	6	hi how are you
<input type="checkbox"/>	5	there is no books on data structure, please add!
<input type="checkbox"/>	4	abcd
<input type="checkbox"/>	3	fghj
<input type="checkbox"/>	2	hello
<input type="checkbox"/>	1	hi

At the bottom of the table view, there are buttons for 'Check all', 'With selected:', 'Edit', 'Copy', 'Delete', and 'Export'. The status bar at the bottom right shows the date and time: 24-07-2021.

CHAPTER 6

CONCLUSION & FUTURE SCOPE

This website provides a computerized version of library management system which will benefit the users as well as the staff of the library. It makes entire process online where staff can generate reports and do book transactions. It also has a facility for user login where user can login and can see status of books issued as well request for book or give some suggestions. It has a facility of admin's login where admins 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 admins as well as online assignments submission facility , a feature Of group chat where users can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfils each users need in the best way possible. Any education institute & government office's can make use of it for providing information about author, content of the available books etc. This project can further be extended by adding the facility of e-book's, to overcome the problem of book stock in library.

CHAPTER 7

REFERENCES

- *http://www.w3schools.com/html/html_intro.asp*
- *http://www.w3schools.com/css/css_background.asp*
- *http://www.w3schools.com/js/js_datatypes.asp*
- *http://www.w3schools.com/sql/sql_insert.asp*
- *http://www.w3schools.com/sql/sql_update.asp*
- *http://www.w3schools.com/php/php_forms.asp*
- *Fundamentals of software engineering by Rajib mall, PHIlearning*
- *Web development and application development by Ivan Byross BPB publications*