



VIT[®]

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

School of Computer Science and Engineering
VIT Chennai
Vandalur - Kelambakkam Road, Chennai - 600 127

J - Final Review Report

Programme : BTech CSE

Course Code : CSE3002

Course Name : Internet And Web Programming

Slot : A2

Faculty : Dr.M.Premalatha

Title : Book Acquisition System (VIT BOOK BARN)

Submitted by

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Abstract

We are making an online portal for V Mart Book Store, where the sellers will upload the information about the books available at the shop and students will be able to check the availability of the books and if not there they can request for it. This will make it easy for the students to place an order of the books they want. They can check if their book arrived or not without visiting the shop. The shop will be able to see the requests of the books and maintain their stocks accordingly.

Motivation

As we were studying in VIT Chennai, we realized that students must go through a lot of hassle in order to avail books for academic purposes or just novels to pursue their passion for reading. After talking to the store owner of V Mart Book Store we realized that making an online Booking system for V Mart Book Store will not only make the system of getting academic books for students become easier but also will increase sales for V Mart Book Store and help them get more customers and then go on to replicate the model for various other libraries or any other book keeping place that want to reach more customers and with the help of our portal it will be a hassle free process of availing and requesting for new books on the go.

Objective

We are making an online portal for V Mart Book Store, where the sellers (V Mart Book Store) will upload the information about the books available at the shop and students will be able to check the availability of the books and if the books they want are not available they can put a request for it. This will make it easy for the students to place an order of the books they want. They can check if their book arrived or not without visiting the shop. Balaji will be able to see the requests of the books and maintain their stocks accordingly.

Introduction

Primary users of the website would be V Mart Book Store shopkeepers and the college students.

The website would also be useful to the faculties of the college and research scholars as they can also request for the books.

The project has been made for the V Mart Book Store at VIT University Chennai. It is the Book acquisition system that will be used by the students to get their requested books hassle-free.

Earlier, the students had to go and ask for the books at the Book Store. If the books weren't available, they had to come again and check for it.

Students can check the available books on the website. They can request for the books that are not available. They can check if their book arrived or not without visiting the shop.

Website has the utility pages such as services, About-us, help that makes the process easier for the user.

Data Set Description

➤ For admintable

Code:

```
CREATE TABLE `admintable` (  
  `USERNAME` varchar(50) NOT NULL,  
  `PASSWORD` varchar(16) NOT NULL  
) ;  
  
INSERT INTO `admintable` (`USERNAME`, `PASSWORD`) VALUES  
('admin', '123');  
  
SELECT * FROM admintable;
```

Output		Available Tables	
USERNAME		PASSWORD	
admin		123	

So here we created the admintable and inserted the username and password for admin.

➤ For bookstable

Code:

```
CREATE TABLE `bookstable` (  
  `BOOK_TITLE` varchar(50) NOT NULL,  
  `AUTHOR_NAME` varchar(50) NOT NULL,  
  `QUANTITY` int(4) NOT NULL,  
  `TOPIC` varchar(50) NOT NULL  
) ;
```

```

INSERT INTO `bookstable` (`BOOK_TITLE`, `AUTHOR_NAME`, `QUANTITY`, `TOPIC`)
VALUES
('abcd', 'xyz', 4, 'computer science '),
('Data Structures And Algorithms Made Easy', 'Narasimha Karumanchi', 6, 'Data Structures'),
('Digital Design', 'M Morris Mano', 8, 'Digital Logic and Design'),
('Operating System Concepts', 'Avi Silberscgatz', 10, 'Operating System'),
('Thomas Calculus', 'George B. Thomas', 5, 'Calculus');

SELECT * FROM bookstable

```

Output

BOOK_TITLE	AUTHOR_NAME	QUANTITY	TOPIC
abcd	xyz	4	computer science
Data Structures And Algorithms Made Easy	Narasimha Karumanchi	6	Data Structures
Digital Design	M Morris Mano	8	Digital Logic and Design
Operating System Concepts	Avi Silberscgatz	10	Operating System
Thomas Calculus	George B. Thomas	5	Calculus

So here we created the bookstable and inserted the book title, author name, quantity and topic.

➤ For feedbacktable

Code:

```

CREATE TABLE `feedback` (
  `FEEDBACK` varchar(500) NOT NULL
) ;

INSERT INTO `feedback` (`FEEDBACK`) VALUES
('hello guys , i am really impressed by your work'),
('hello hi ');

select * from feedback

```

Output

FEEDBACK
hello guys , i am really impressed by your work
hello hi

So here we created the feedback table and inserted the feedback.

➤ For registertable

Code:

```
CREATE TABLE `registertable` (  
  `FNAME` varchar(50) NOT NULL,  
  `EMAIL` varchar(50) NOT NULL,  
  `REG_NO` varchar(9) NOT NULL,  
  `PASS` varchar(16) NOT NULL  
) ;  
  
INSERT INTO `registertable` (`FNAME`, `EMAIL`, `REG_NO`, `PASS`) VALUES  
(  
'sanjil', 'san@gmail.com', '20bce1855', 'Asdf1234'),  
(  
'krishna', 'krishna@gmail.com', '20BCE0098', 'Krish123'),  
(  
'ashishajh', 'dasdshf@sdksf.com', '20BCE0652', 'Baltimugga1!'),  
(  
'ashish', 'dshf@sdksf.com', '20BCE0654', 'Baltimugga1!'),  
(  
'Rashi Kasera', 'kaserashi@gmail.com', '20BCE2421', 'abc123'),  
(  
'ram', 'ram@gmail.com', '20BCI0019', 'Hello123'),  
(  
'SUMEGHA SAWA', 'sumeghasawa@gmail.com', '20BCI0102', 'sumegha');  
  
select * from registertable
```

Output

FNAME	EMAIL	REG_NO	PASS
sanjil	san@gmail.com	20bce1855	Asdf1234
krishna	krishna@gmail.com	20BCE0098	Krish123
ashishajh	dasdshf@sdksf.com	20BCE0652	Baltimugga1!
ashish	dshf@sdksf.com	20BCE0654	Baltimugga1!
Rashi Kasera	kaserashi@gmail.com	20BCE2421	abc123
ram	ram@gmail.com	20BCI0019	Hello123
SUMEGHA SAWA	sumeghasawa@gmail.com	20BCI0102	sumegha

So here we created the register table and this is for customer registration .

➤ **For requesttable**

Code:

```
CREATE TABLE `requesttable` (  
  `BOOK_TITLE` varchar(50) NOT NULL,  
  `AUTHOR_NAME` varchar(50) NOT NULL,  
  `QUANTITY` int(2) NOT NULL  
) ;  
  
INSERT INTO `requesttable` (`BOOK_TITLE`, `AUTHOR_NAME`, `QUANTITY`) VALUES  
('', '', 0),  
( 'electronics and electricals ', 'john bird', 6),  
( 'Engineering electromagnetics', 'Kamlesh Mullick', 3);  
  
select * from requesttable
```

Output

BOOK_TITLE	AUTHOR_NAME	QUANTITY
		0
electronics and electricals	john bird	6
Engineering electromagnetics	Kamlesh Mullick	3

So here we created the request table and this is for customer request .

- **Set primary for each table we created**

Code:

```
-- Indexes for table `admintable`
--
ALTER TABLE `admintable`
  ADD PRIMARY KEY (`USERNAME`);

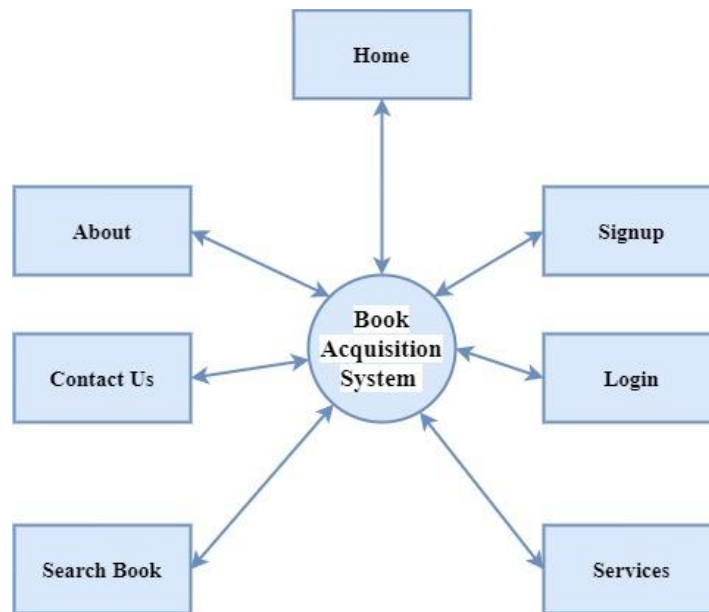
--
-- Indexes for table `bookstable`
--
ALTER TABLE `bookstable`
  ADD PRIMARY KEY (`BOOK_TITLE`);

--
-- Indexes for table `registertable`
--
ALTER TABLE `registertable`
  ADD PRIMARY KEY (`REG_NO`),
  ADD UNIQUE KEY `E` (`EMAIL`);

--
-- Indexes for table `requesttable`
--
ALTER TABLE `requesttable`
  ADD PRIMARY KEY (`BOOK_TITLE`);
COMMIT;
```

Data Flow Diagram

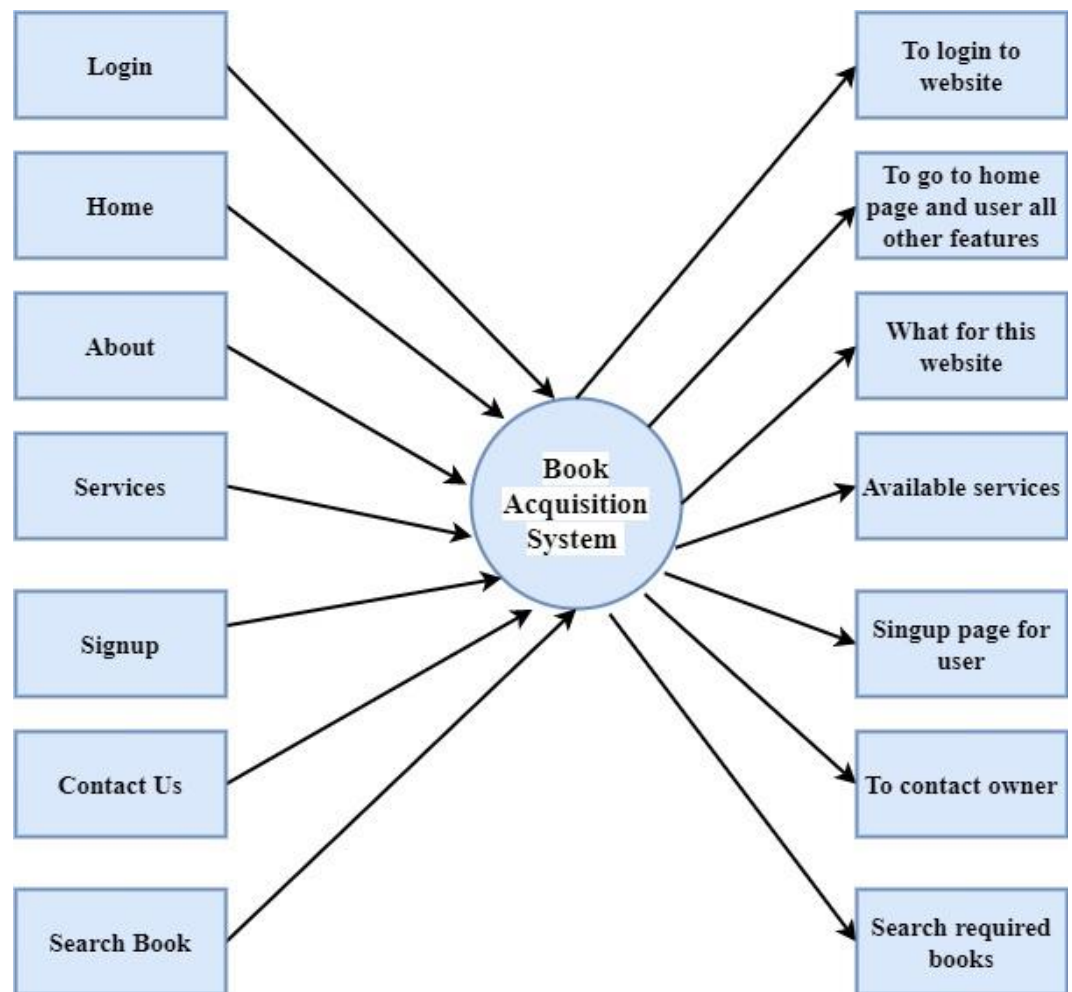
○ LEVEL ZERO DFD



LEVEL ZERO DFD OF BOOK ACQUISITION SYSTEM

It is also known as a context diagram. It's designed to be an abstraction view, showing the system as a single process with its relationship to external entities. It represents the entire system as a single bubble with input and output data indicated by incoming/outgoing arrows.

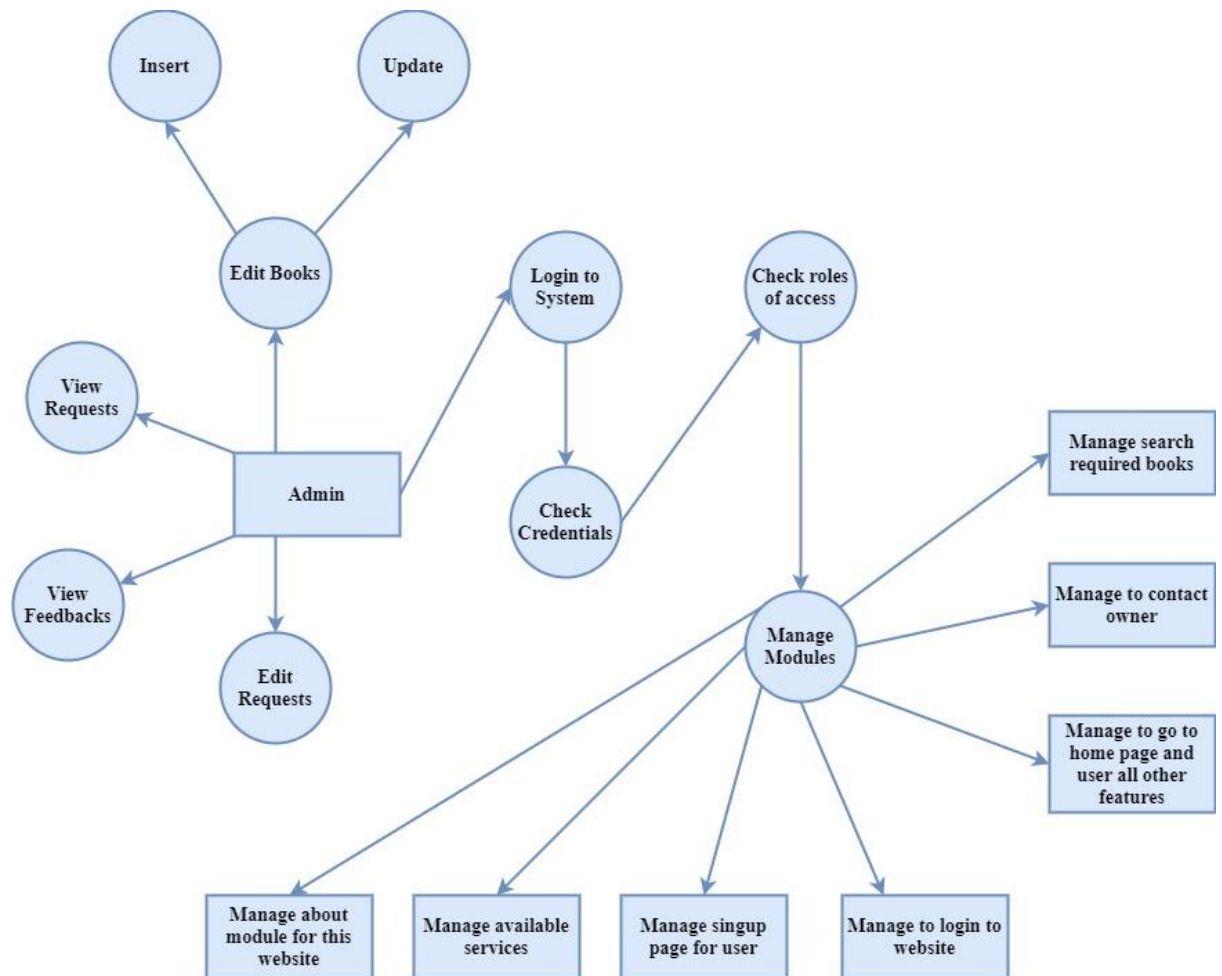
○ LEVEL ONE DFD



LEVEL ONE DFD OF BOOK ACQUISITION SYSTEM

In 1-level DFD, the context diagram is decomposed into multiple bubbles/processes. In this level, we highlight the main functions of the system and breakdown the high-level process of 0-level DFD into subprocesses

○ LEVEL TWO DFD



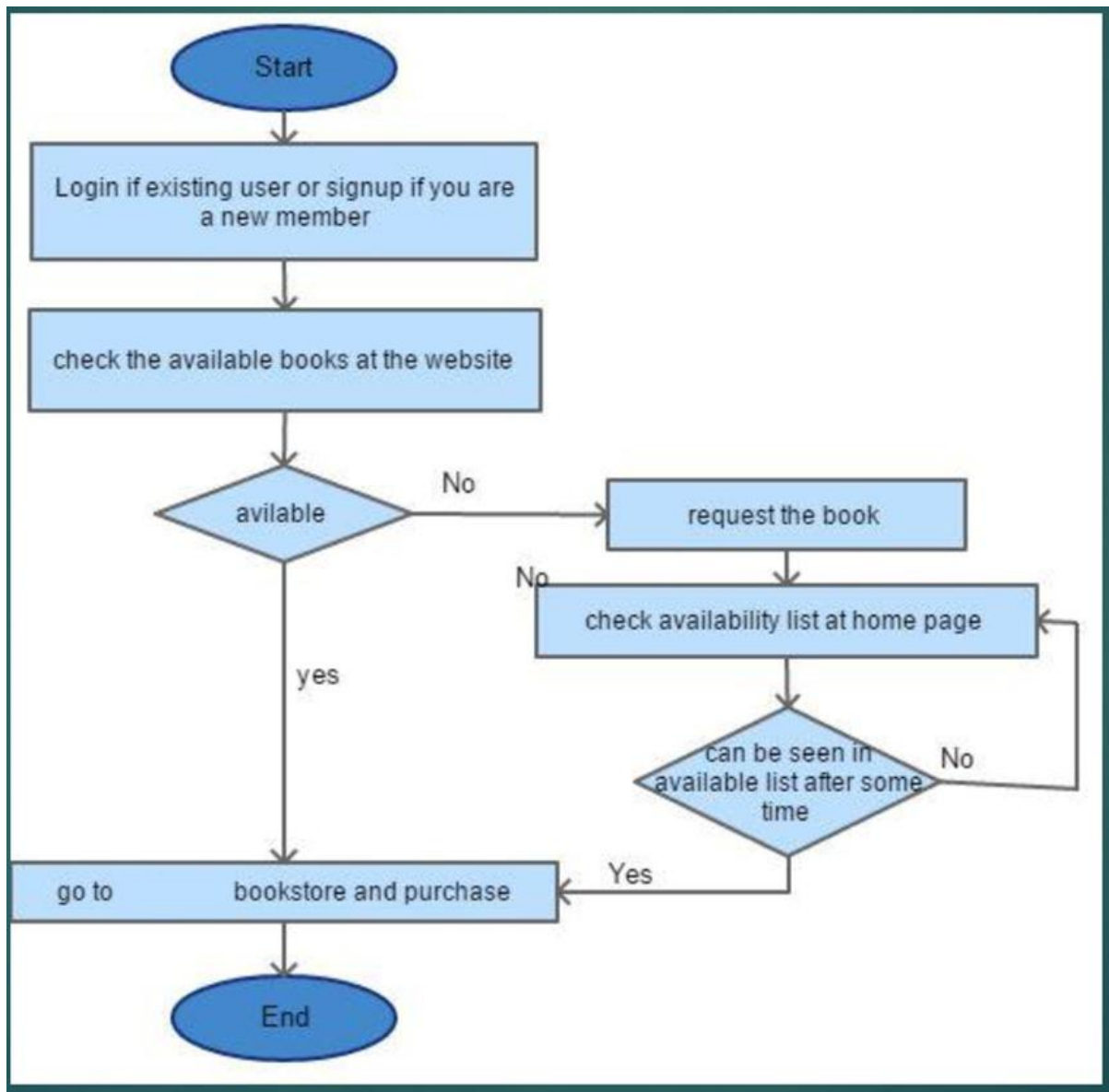
LEVEL TWO DFD OF BOOK ACQUISITION SYSTEM

2-level DFD goes one step deeper into parts of 1-level DFD. It can be used to plan or record the specific/necessary detail about the system's functioning.

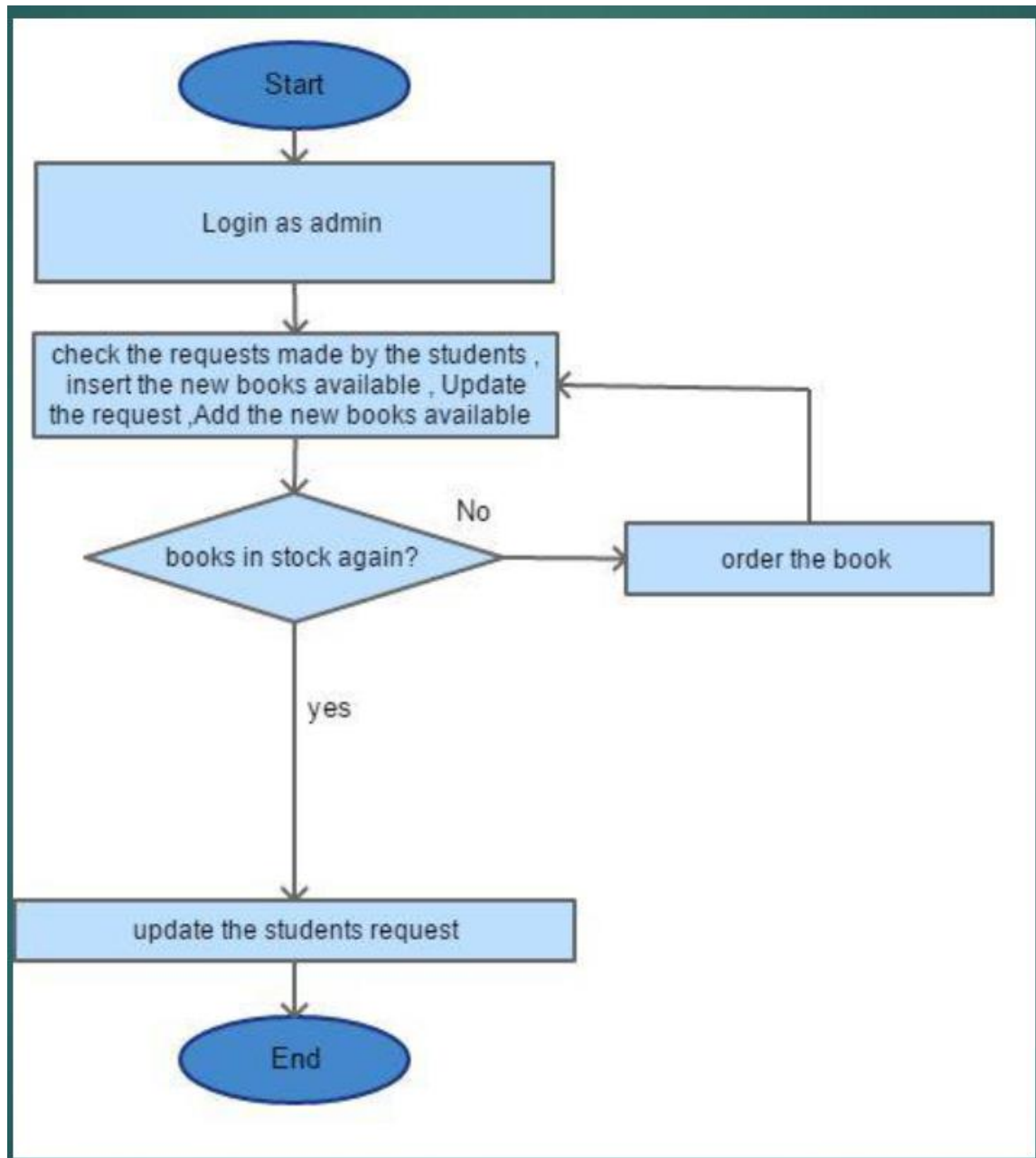
Block Diagram

A block diagram is a visual representation of a system that uses simple, labelled blocks that represent single or multiple items, entities or concepts, connected by lines to show relationships between them.

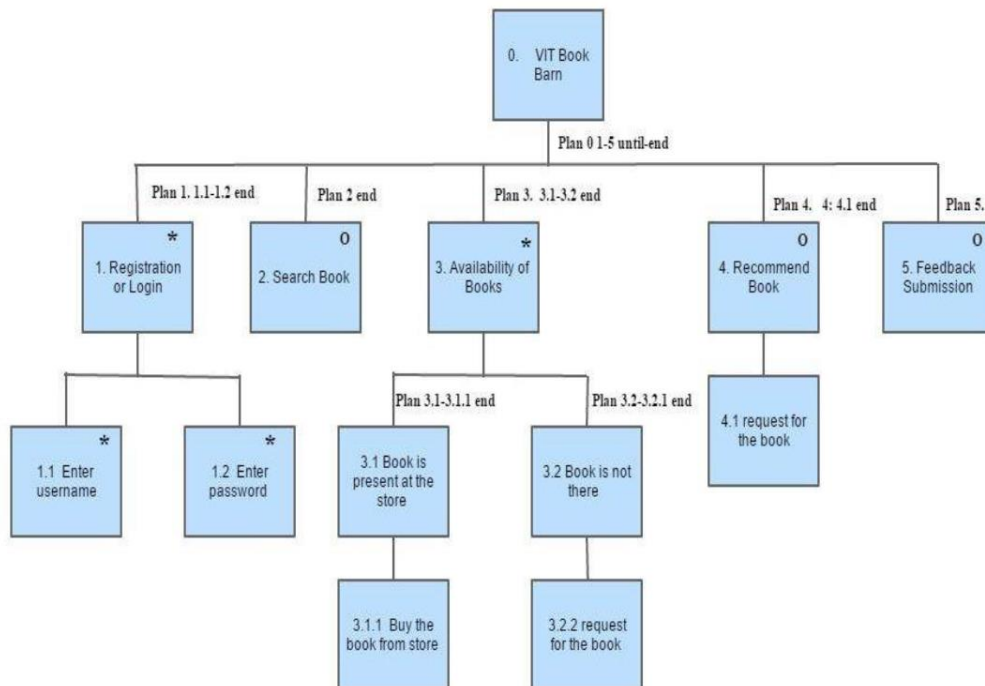
- Block Diagram of proposed system for User



- Block Diagram of proposed system for Admin



System Model



System Requirements

System requirements are expressed in a software requirement document. The Software requirement specification (SRS) is the official statement of what is required of the system developers. This requirement document includes the requirements definition and the requirement specification. The software requirement document is not a design document. It should set out what the system should do without specifying how it should be done. The requirement set out in this document is complete and consistent. The software specification document satisfies the following

- It specifies the external system behaviours.
- It specifies constraints on the implementation.
- It is easy to change.
- It serves as reference tool for system maintainers.
- It record forethought about the life cycle of the system.
- It characterizes acceptable response to undesired events.

❖ User Class and Characteristics:

- General public
- Customers
- Administrator
- General public can use the system to see the books, their prices and quantity available.
- Non registered user cannot buy the books.
- Customers are using for viewing and buying the books.
- Customer can also write feedbacks for books and services
- Administrators can add, edit & delete books and provide services to the customer.
- Administrator can see the daily sell. Can also see the feedback given by the customer.
- Administrator maintaining the deliveries.

❖ Functional Requirements:

- The System must provide following functionalities—
- Keeping records of registration of customers.
- Keeping the records of books.
- Keeping the daily sell.
- Storing the feedback given by the customer.
- Keeping details about the product it is delivered or not. etc.
- Storing the items selected by the customer in the temporary storage.

❖ Non-Functional Requirements:

Following Non-functional requirements will be there in the online shopping portal.

- ☐ Secure access of confidential data (customer's details).
- ☐ 24 X 7 availability.
- ☐ Better component design to get better performance at peak time.

Flexible service-based architecture will be highly desirable for future extension Non functional requirements define system properties and constraints It arise through user

needs, because of budget constraints or organizational policies, or due to the external factors such as safety regulations, privacy registration and so on.

Various other Non-functional requirements are:

1. Security
2. Reliability
3. Maintainability
4. Portability
5. Extensibility
6. Reusability
7. Application Affinity/Compatibility
8. Resource Utilization

❖ **External Interface Requirements:**

▪ **User Interface:**

User of the system will be provided with the Graphical user interface, there is no command line interface for any functions of the product.

▪ **Hardware Interface:**

Hardware requirements for running this project are as follows:

Processor: - Pentium I or above.

RAM: - 128 MB or above.

HD: - 20 GB or above.

❖ **Software Interface: -**

Software required to make working of product is:-

Front end- HTML/PHP

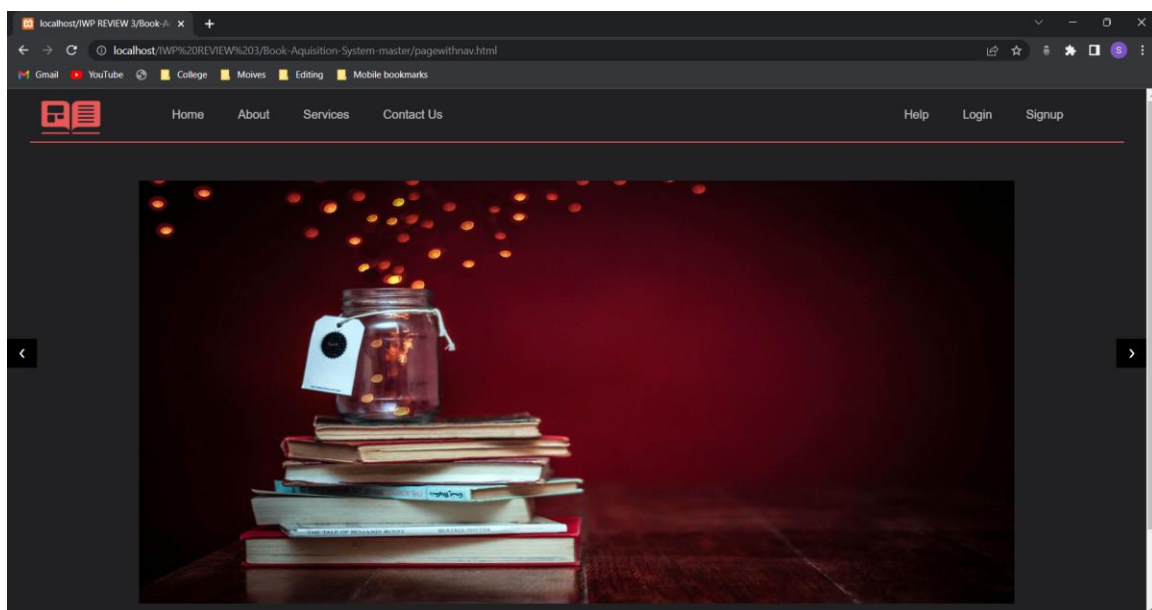
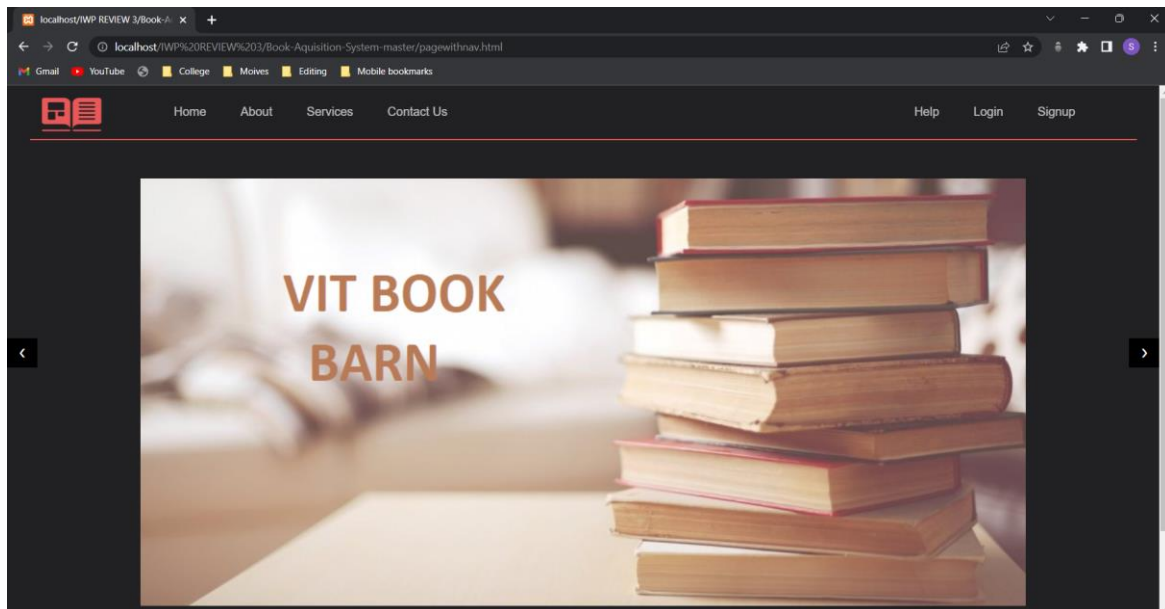
Back end- My SQL

Implementation

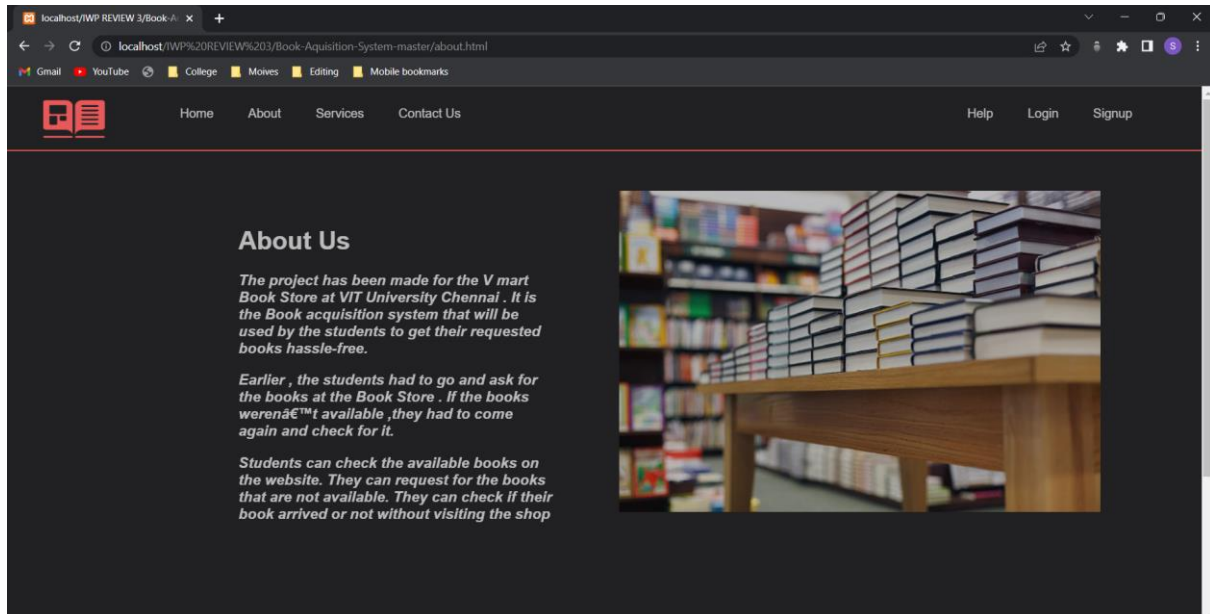
The Software Design Description Document has been used as input in the implementation process. The actual implementation has been done using PHP. PHP has been used to interact with the backend database. In this implementation, My SQL Server has been used as the backend RDBMS. PHP processes the inputs or commands given by the user and translates them in the commands understandable to the backend database. The output produced by the backend database is also handled by PHP which then displayed on the Browser screen.

Modules

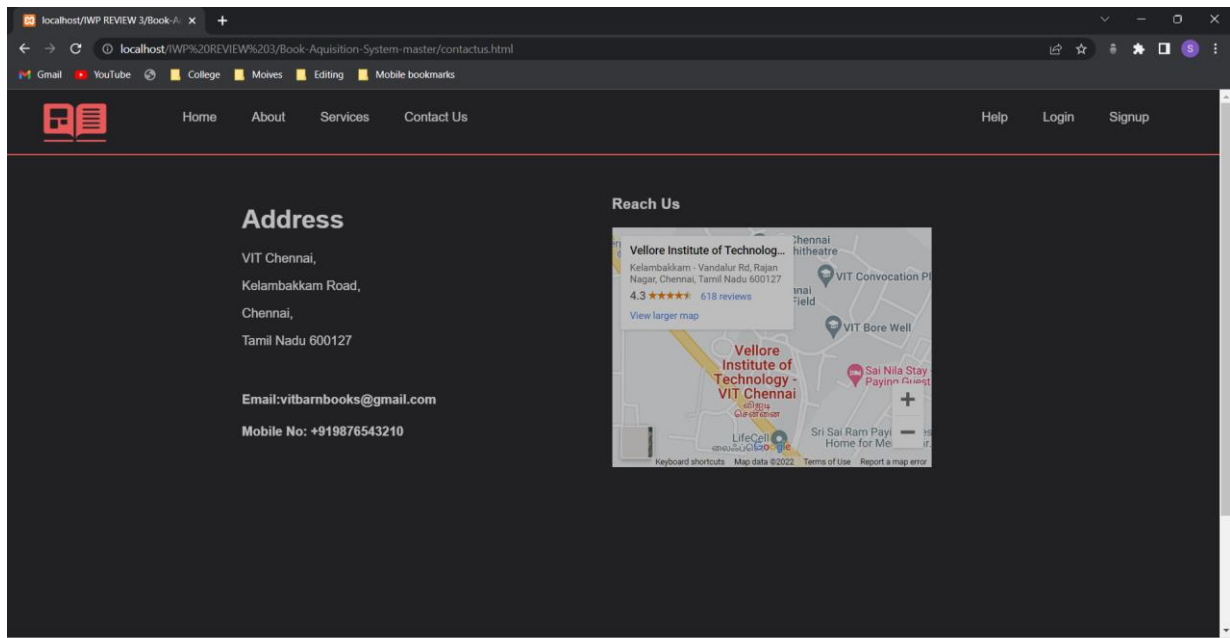
- Home



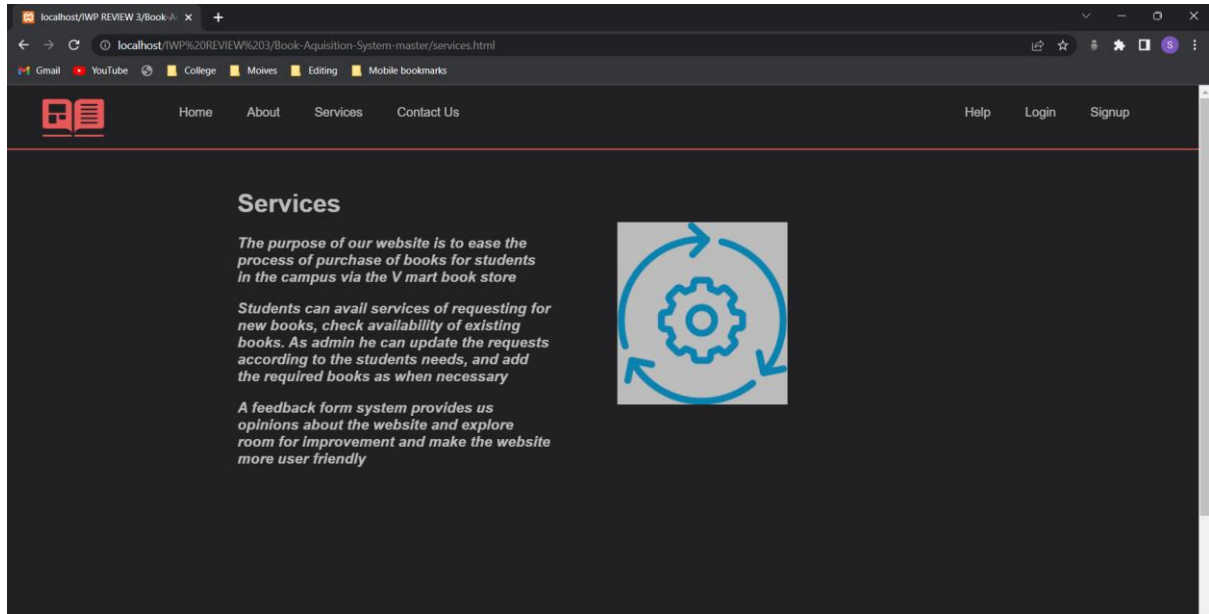
• About



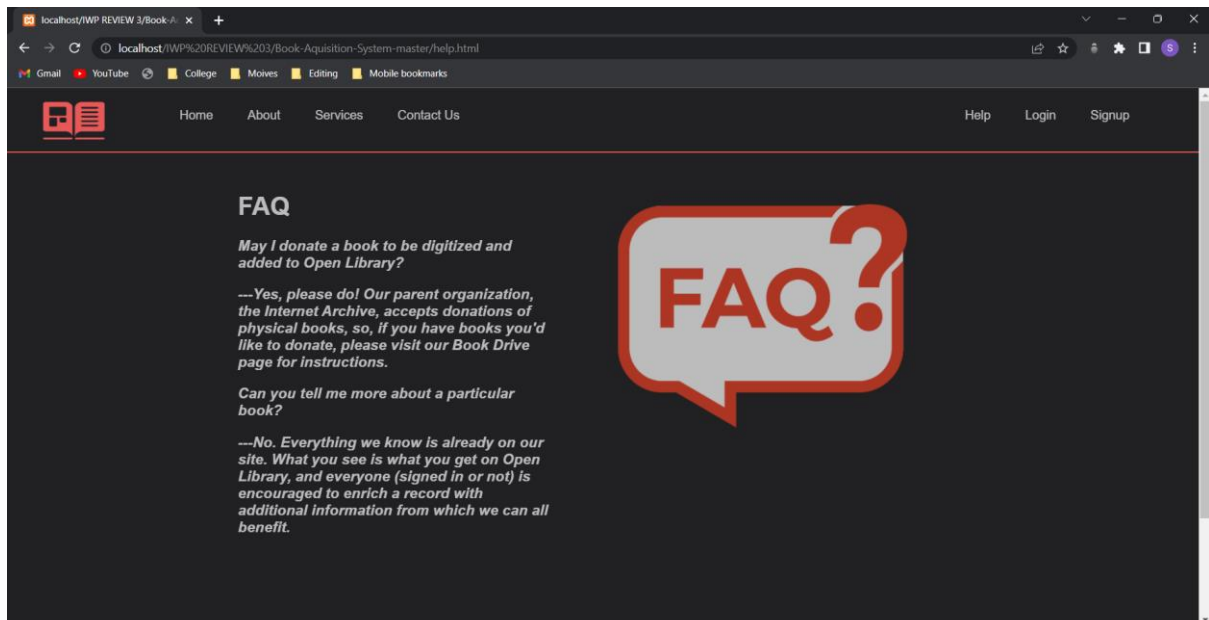
• Contact Us



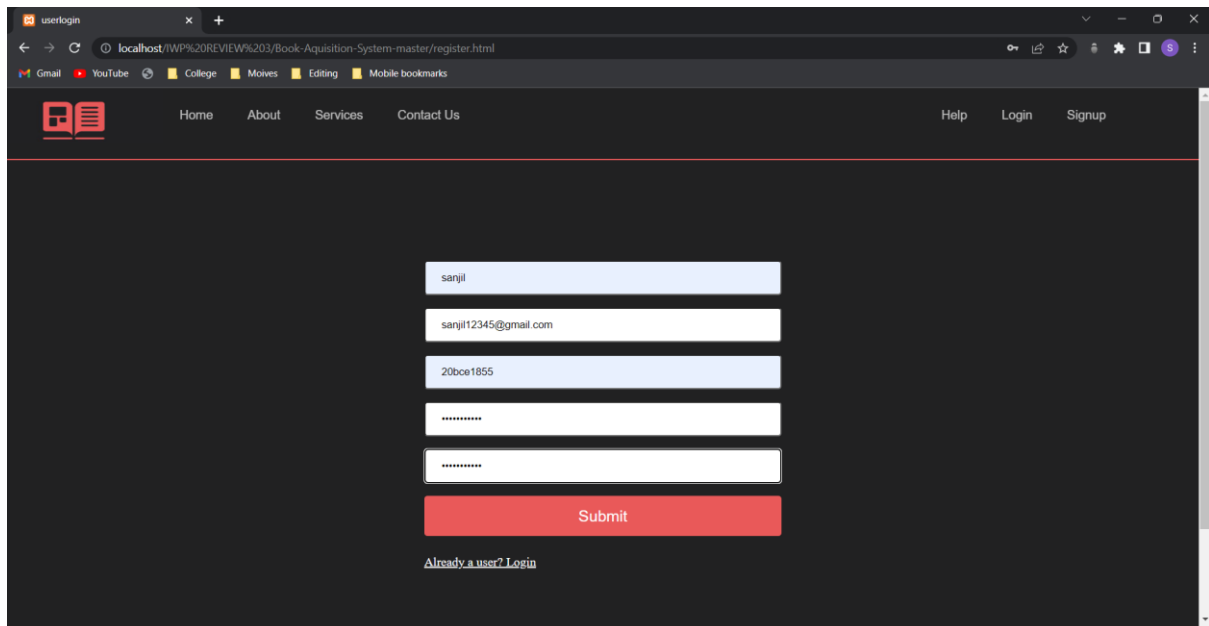
• Services



• Help



• Signup



A screenshot of a web browser showing the 'Signup' page. The browser's address bar displays 'localhost/IWP%20REVIEW%203/Book-Aquisition-System-master/register.html'. The page features a dark background with a light blue header containing a logo and navigation links: 'Home', 'About', 'Services', 'Contact Us', 'Help', 'Login', and 'Signup'. The main content area contains a registration form with five input fields: a username field with 'sanjit', an email field with 'sanjit12345@gmail.com', a phone number field with '20bce1855', and two password fields, both masked with dots. A red 'Submit' button is positioned below the password fields. At the bottom of the form, there is a link that reads 'Already a user? Login'.

sanjit

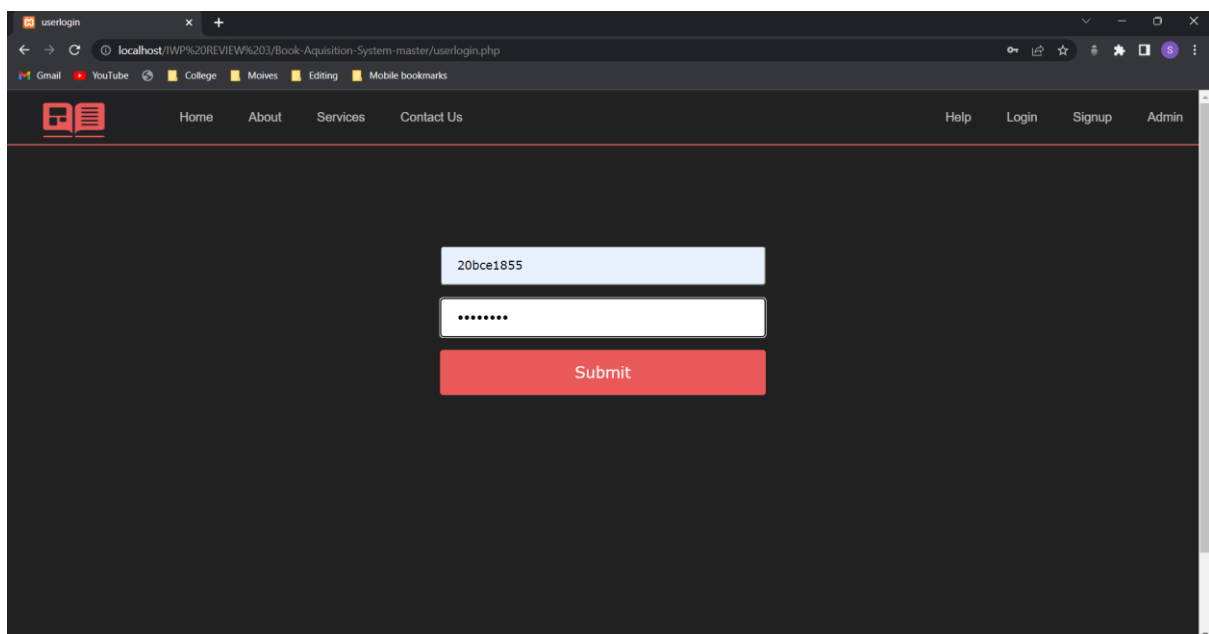
sanjit12345@gmail.com

20bce1855

Submit

[Already a user? Login](#)

• Login

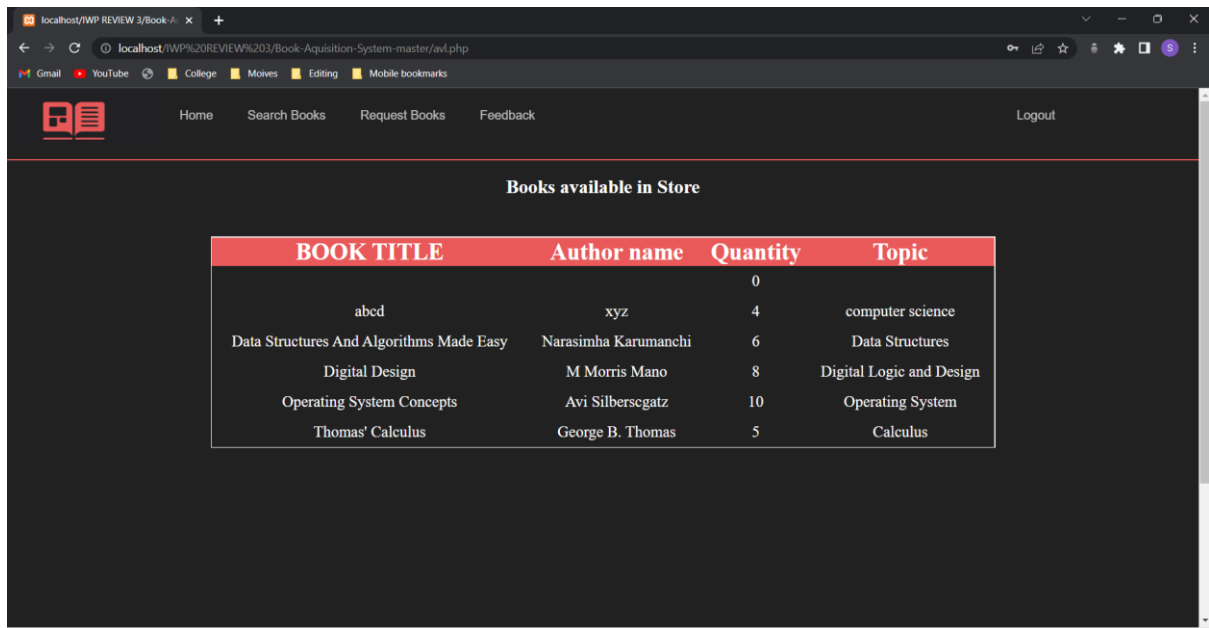


A screenshot of a web browser showing the 'Login' page. The browser's address bar displays 'localhost/IWP%20REVIEW%203/Book-Aquisition-System-master/userlogin.php'. The page features a dark background with a light blue header containing a logo and navigation links: 'Home', 'About', 'Services', 'Contact Us', 'Help', 'Login', 'Signup', and 'Admin'. The main content area contains a login form with two input fields: a username field with '20bce1855' and a password field masked with dots. A red 'Submit' button is positioned below the password field.

20bce1855

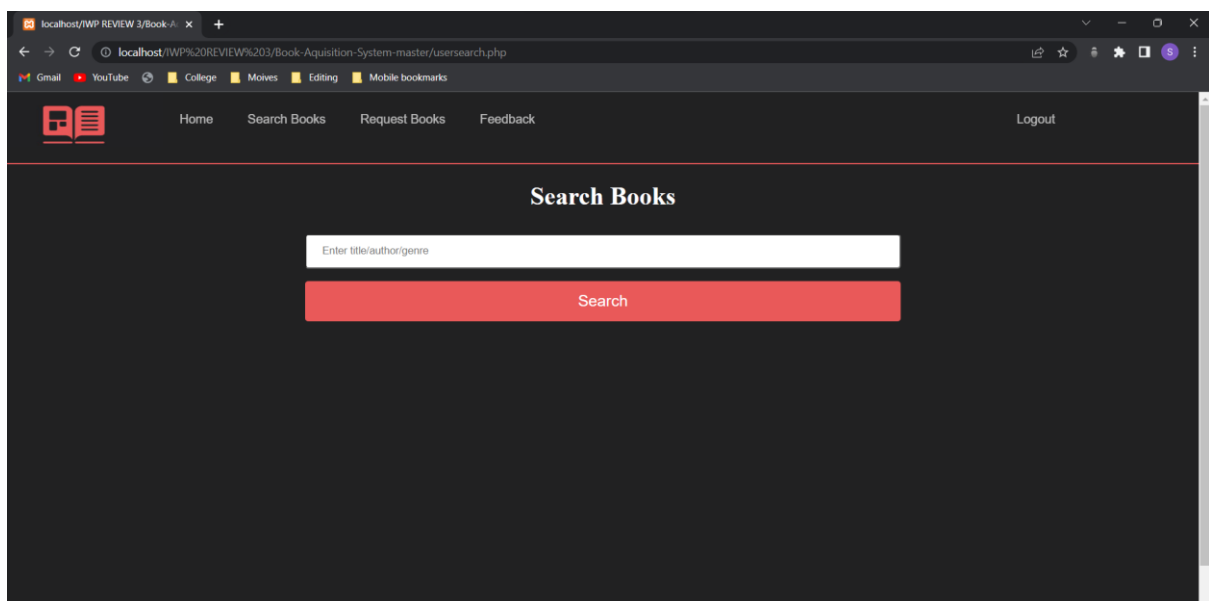
Submit

• User Home



Modules In User :

▪ Search Books



- **Request Books**

localhost/WP REVIEW 3/Book-A x +

localhost/WP%20REVIEW%203/Book-Aquisition-System-master/request.php

Gmail YouTube College Movies Editing Mobile bookmarks

Home Search Books Request Books Feedback Logout

Book name....

Author name....

quantity of the book...

Add Request

- **Feedback**

localhost/WP REVIEW 3/Book-A x +

localhost/WP%20REVIEW%203/Book-Aquisition-System-master/feedback.php

Gmail YouTube College Movies Editing Mobile bookmarks

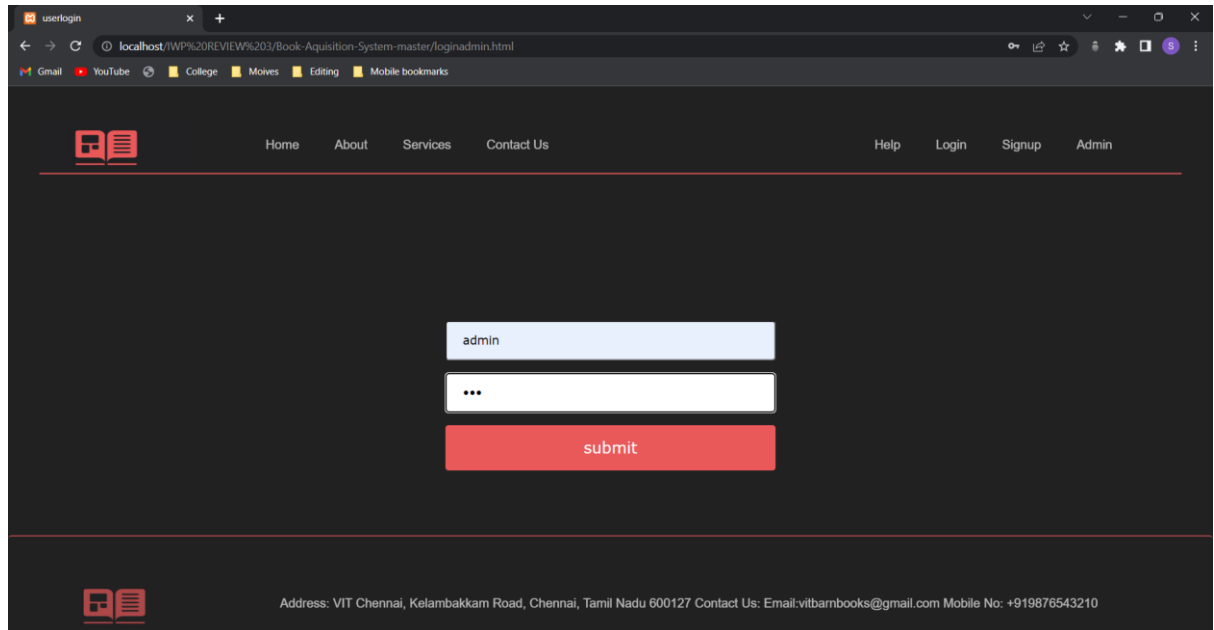
Home Search Books Request Books Feedback Logout

Feedback:

Submit

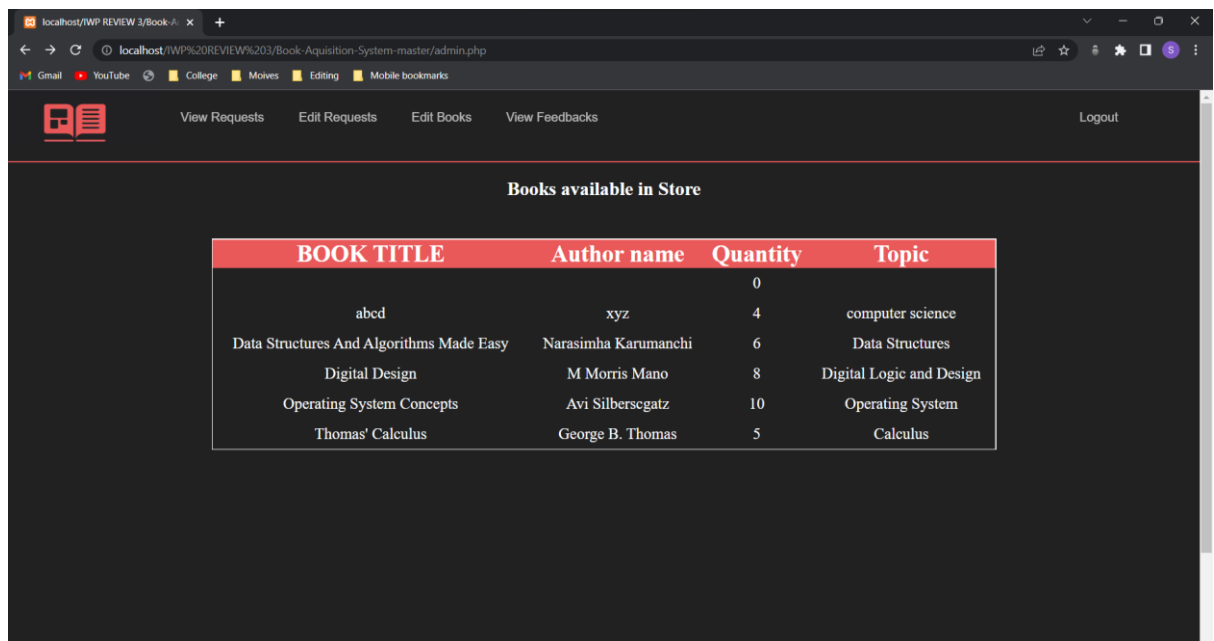
• Admin

▪ Login



The screenshot shows a web browser window with the URL `localhost/WP%20REVIEW%203/Book-Aquisition-System-master/loginadmin.html`. The page has a dark theme with a red header bar. The header contains a logo on the left and navigation links: Home, About, Services, Contact Us, Help, Login, Signup, and Admin. The main content area features a login form with two input fields: the first contains the text 'admin' and the second contains three dots '...'. Below these fields is a red 'submit' button. At the bottom of the page, there is a footer with contact information: 'Address: VIT Chennai, Kelambakkam Road, Chennai, Tamil Nadu 600127 Contact Us: Email: vitbarnbooks@gmail.com Mobile No: +919876543210'.

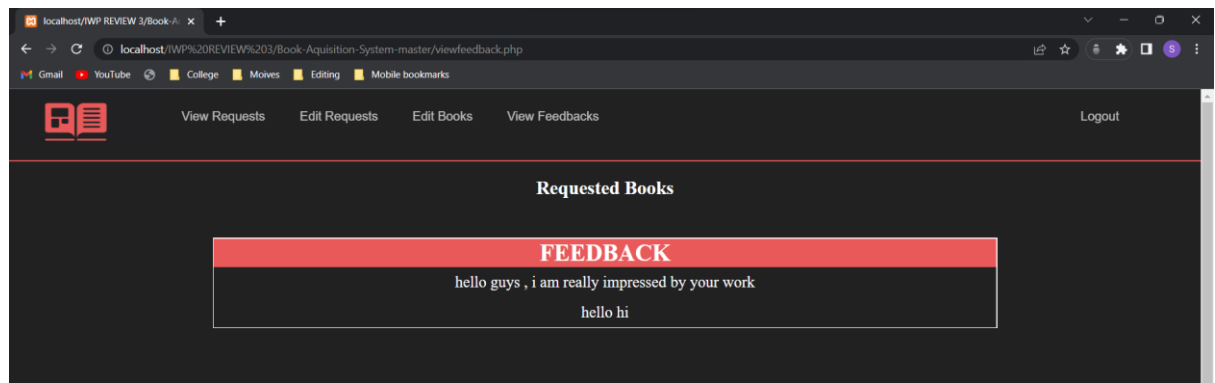
▪ Home



The screenshot shows a web browser window with the URL `localhost/WP%20REVIEW%203/Book-Aquisition-System-master/admin.php`. The page has a dark theme with a red header bar. The header contains a logo on the left and navigation links: View Requests, Edit Requests, Edit Books, View Feedbacks, and Logout. The main content area displays a table titled 'Books available in Store'.

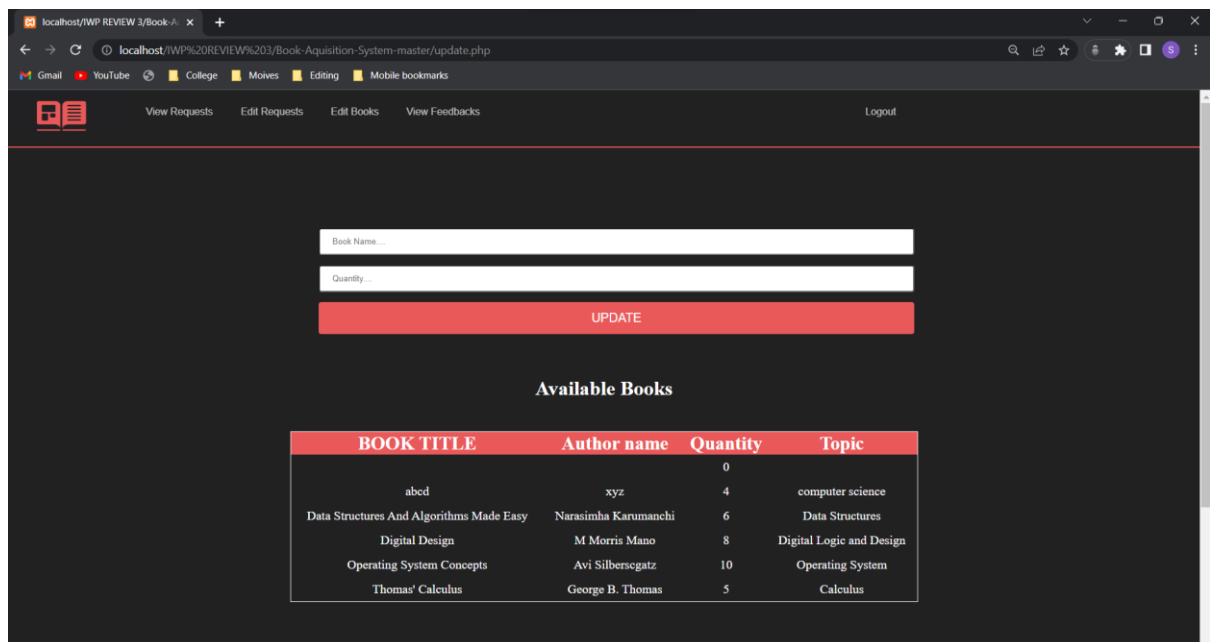
BOOK TITLE	Author name	Quantity	Topic
abcd	xyz	0	computer science
Data Structures And Algorithms Made Easy	Narasimha Karumanchi	4	Data Structures
Digital Design	M Morris Mano	6	Digital Logic and Design
Operating System Concepts	Avi Silberschatz	8	Operating System
Thomas' Calculus	George B. Thomas	10	Calculus
		5	

▪ View Feedbacks

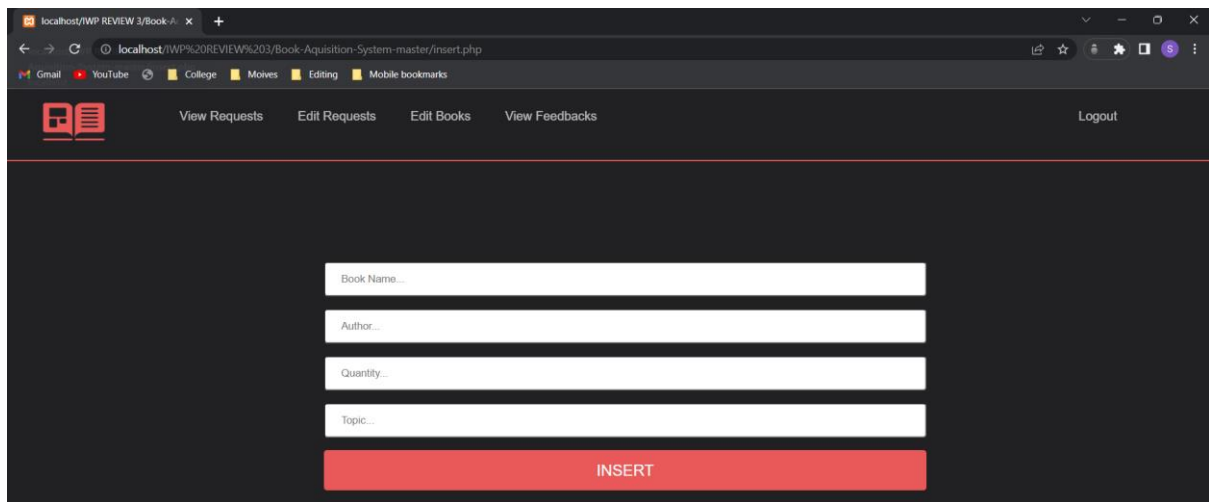


▪ Edit Books

- Insert



○ Update



localhost/TWP REVIEW 3/Book-A/

localhost/TWP%20REVIEW%203/Book-Aquisition-System-master/insert.php

Gmail YouTube College Moives Editing Mobile bookmarks

View Requests Edit Requests Edit Books View Feedbacks Logout

Book Name...

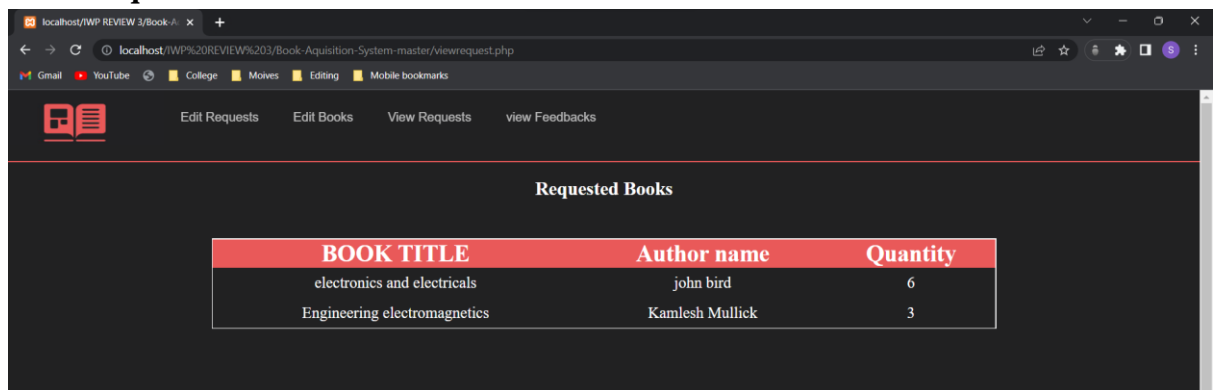
Author...

Quantity...

Topic...

INSERT

■ View Request



localhost/TWP REVIEW 3/Book-A/

localhost/TWP%20REVIEW%203/Book-Aquisition-System-master/viewrequest.php

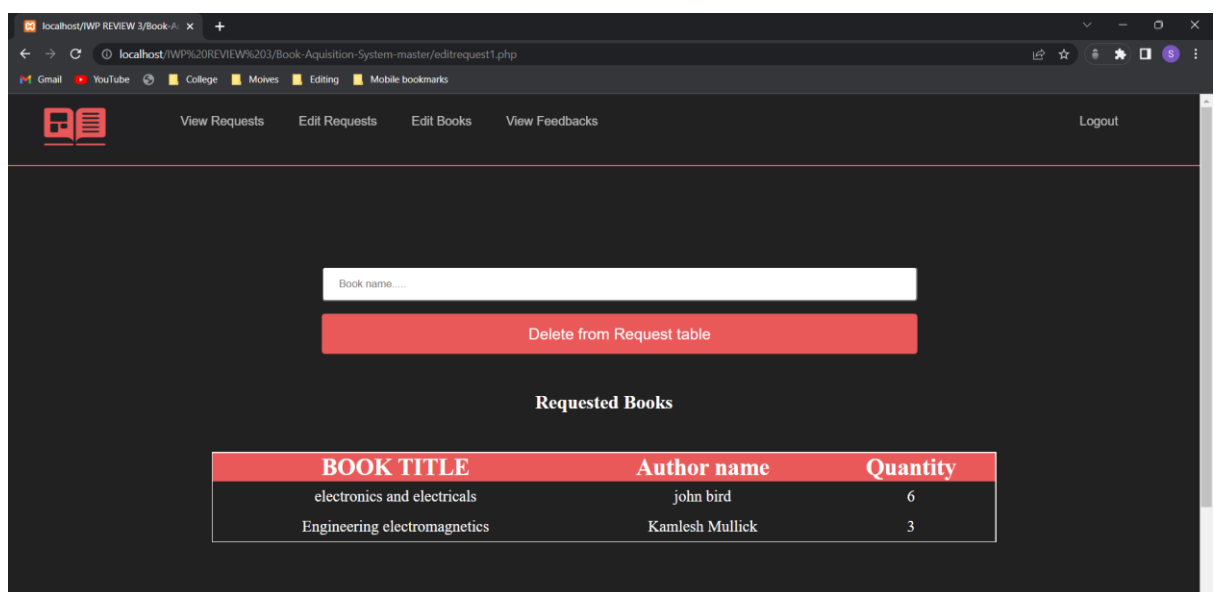
Gmail YouTube College Moives Editing Mobile bookmarks

Edit Requests Edit Books View Requests view Feedbacks

Requested Books

BOOK TITLE	Author name	Quantity
electronics and electricals	john bird	6
Engineering electromagnetics	Kamlesh Mullick	3

■ Edit Request



localhost/TWP REVIEW 3/Book-A/

localhost/TWP%20REVIEW%203/Book-Aquisition-System-master/editrequest1.php

Gmail YouTube College Moives Editing Mobile bookmarks

View Requests Edit Requests Edit Books View Feedbacks Logout

Book name...

Delete from Request table

Requested Books

BOOK TITLE	Author name	Quantity
electronics and electricals	john bird	6
Engineering electromagnetics	Kamlesh Mullick	3

Results and Discussion

Test cases

Test Case ID	Test Objective	Test Data	Expected Results	Actual Results	Test Pass/Fail
1.	Customer can register into new account	1. Username: sumeghasawa Email:sumeghasawa@gmail.com phone number: 8178197467 password:sum123 confirm password:sum123	Register and send to next page	Register and send to next page	Pass
		2. Username: sumeghasawa Email:sumeghasawa@gmail.com phone number: 8178197467 Password: sum12 Confirm password: sum12	Password should contain minimum of six characters	Password should contain minimum of six characters	Pass
		3. Username: sumeghasawa Email: sumeghasawa phone number: 8178197467 Password: sum123 Confirm Password: sum123	The email address is badly formatted	The email address is badly formatted	Pass
		4. Username: sumeghasawa Email:sumeghasawa@gmail.com phone number: 8178197467 Password: sum123 Confirm Password: sum123	The email address is already registered. Try login in	The email address is already registered. Try login in	Pass
			Passwords	Passwords	Pass

		5. Username: sumeghasawa Email:sumeghasawa@gmail.com phone number: 8178197467 password:sum1234 confirm password :sum123 6.Username: sumeghasawa Email: sumeghasawa@gmail.com phone number: 817819746 password:sum123 confirm password :sum123	do not match Please enter the correct phone number	do not match Register and send to next page	Fail
2.	Users Can Login to existing account	1.Username: sumeghasawa@gmail.com Password: sum123 2.Username: keshavagarwal@gmail.com Password :kesh1234	Successful Login and Move to Home Page Invalid credentials - user does not exist	Successful Login and Move to Home Page Invalid credentials - user does not exist	Pass Pass
3.	Search Books	1.Harry Potter 2.Let us C	This Book is available at Balaji This book is not available at Balaji	This Book is available at Balaji This book is not available at Balaji	Pass Fail
4.	Request Books	1.Let Us C	Your request is accepted	Your request is accepted	Pass

✚ Conclusion

After implementing the web application, it will contain the more advantages when comparable to the present contemporary systems used by store. The most admirable feature founded was its simplicity in terms of application to the user but its highly beneficial outputs can't be ignored. The users will be highly benefited after using the system. It is hoped that this project will help the future developers to modify and implement the system. After modifying some techniques of the programs, it will give us the best performance as our requirements. This project will be very useful for the users.

References

- ❖ **W3schools:** templates for several styling elements to integrate animations and dynamic features in the website
- ❖ Other Libraries Websites visited:
- ❖ <https://onlinelibrary.london.ac.uk/>
- ❖ <https://librarika.com/>
- ❖ <https://www.libib.com/>
- ❖ IEEE Recommended Practice for Software Design Descriptions IEEE Std 1016-1998
- ❖ IEEE Recommended Practice for Software Requirements Specifications - IEEE Std 830-1998
- ❖ IEEE Standard for Software Test Documentation IEEE Std 829-1998
- ❖ IEEE Guide for Software Quality Assurance Planning - IEEE Std 730.1-1995
- ❖ <http://www.asp.net/learn/data-access/tutorial-16-vb.aspx>
- ❖ www.gliffy.com
- ❖ [http://msdn.microsoft.com/ens/library/system.security.permissions.securitypermissionattribute\(VS.71\).aspx](http://msdn.microsoft.com/ens/library/system.security.permissions.securitypermissionattribute(VS.71).aspx)
- ❖ <http://www.locmetrics.com/>
- ❖ <http://nces.ed.gov/nceskids/createAGraph/>
- ❖ http://en.wikipedia.org/wiki/Load_testing
- ❖ http://en.wikipedia.org/wiki/Unit_test
- ❖ <http://www.viveo-oolobject.com/savoirfaire/ecmfinance/concepts/usine/3tiers.php>
- ❖ <file:///C:/Documents%20and%20Settings/Owner/Desktop/jakartajmeter2.3RC3/docs/usermanual/build-adv-web-test-plan.html>
- ❖ http://en.wikipedia.org/wiki/Manual_testing