VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JnanaSangama, Belgaum-590014

Internship Report on

” FULL STACK WEB DEVELOPMENT”

Submitted in Partial fulfilment of the Requirements for the award of the Degree

Bachelor of Engineering
In
Computer Science & Engineering
By

BABITHA RANI B(1JS20CS040)
BHAGYASHRI SHETTY H(1JS20CS043)

FULL STACK WEB DEVELOPMENT INTERNSHIP
AT PRINSTON SMART ENGINEERS

JSS Mahavidyapeetha

JSS Academy of Technical Education

Kengeri - Uttarahalli Main Road, Bangalore-560060

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ABSTRACT

Web development is the work involved in developing a web site for the internet(World Wide Web) or an intranet(a private network) web development can range from developing a simple single static page of plain text to complex web-based internet services. Amore comprehensive list of tasks to which web development commonly refers, may include web engineering ,web design ,web content development, client liaison , client-side/server-side scripting, webserver and network configuration,and ecommerce development. WICS (Web Based Internship Coordinating System) is a comprehensive toolkit for managing and coordinating internship programs in an educational institution. WICS was developed with the intension of providing an interactive tool for the faculty and students to communicate with each other whenever and wherever they want to. Students can understand the requirements and view their progress and interact with the faculty in a better way. An instructor can review and update a student's progress and send email to students directly if necessary, from WICS. Designed in PHP (Hypertext Preprocessor), an open source, server-side, HTML (Hypertext Markup Language) embedded scripting language used for creating dynamic web pages, this piece of software, is easy to maintain and further enhancements can be added without any hassles**.**

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Submitted By-

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BHAGYASHRI SHETTY H(1JS20CS043)

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Chapter 1

INTRODUCTION

Web development is the work involved in developing a Web site for the Internet (World Wide Web) or an intranet (a private network). Web development can range from developing a simple single static page of plain text to complex Web-based Internet applications (Web apps), electronic businesses, and social network services. A more comprehensive list of tasks to which Web development commonly refers, may include Web engineering, Web design, Web content development, client liaison, client-side/server-side scripting, Web server and network security configuration, and e-commerce development.

Among Web professionals, "Web development" usually refers to the main non-design aspects of building Web sites: writing markup and coding. Web development may use content management systems (CMS) to make content changes easier and available with basic technical skills.

For larger organizations and businesses, Web development teams can consist of hundreds of people (Web developers) and follow standard methods like Agile methodologies while developing Web sites. Smaller organizations may only require a single permanent or contracting developer, or secondary assignment to related job positions such as a graphic designer or information systems technician. Web development may be a collaborative effort between departments rather than the domain of a designated department. There are three kinds of Web developer specialization: front-end developer, back-end developer, and full-stack developer. Front-end developers are responsible for behavior and visuals that run in the user browser, while back-end developers deal with the servers.

Since the commercialization of the Web, Web development has been a growing industry. The growth of this industry is being driven by businesses wishing to use their Web site to advertise and sell products and services to customers.

There are many open source tools for Web development such as Berkeley DB, Glass Fish, LAMP (Linux, Apache, MySQL, PHP) stack and Perl/Plack. This has kept the cost of learning Web development to a minimum. Another contributing factor to the growth of the industry has been the rise of easy-to-use WYSIWYG Web-development software, such as Adobe Dreamweaver, Blue Griffon and Microsoft Visual Studio. Knowledge of Hypertext Markup Language (HTML) or of programming languages is still required to use such software, but the basics can be learned and implemented quickly.

An ever-growing set of tools and technologies have helped developers build more dynamic and interactive Web sites. Further, Web developers now help to deliver applications as Web services which were traditionally only available as applications on a desk-based computer. This has allowed for many opportunities to decentralize information and media distribution. Examples can be seen with the rise of cloud services such as Adobe Creative Cloud, Dropbox and Google Drive. These Web services allow users to interact with applications from many locations, instead of being tied to a specific workstation for their application environment.

1.1 XAMPP

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

XAMPP ease of deployment means a WAMP or LAMP stack can be installed quickly and simply on an operating system by a developer, with the advantage that common add-in applications such as WordPress and Joomla! can also be installed with similar ease using Bitnami.

1.2 MYSQL

MySQL is multithreaded, multi user SQL database management System (DBMS). The basic program run as server providing multiuser access to a number of databases. The project's source code is available under terms of the GNU General Public License, as well as under a variety of property arguments. MySQL is a database. The data in a MySQL is stored in a Database objects called tables. A table is a collection of related data entries and it consists of columns and rows. The databases are useful when storing information categorically.

MySQL is a central components of the LAMP open source web application software stack (and other "AMP" stacks). LAMP is an acronym for Linux, Apache, MySQL, Perl/PHP/ Python. Application that use the MySQL database include TYP03, MODx, Joomla, WordPress, PHPBB, MyBB and Drupal. MySQL is also used in many high profile, large scale web sites, including Google (Though not for the searches).

1.3 PHP

PHP code may be executed with a command line interface (CLI), embedded into HTML code, or used in combination with various web template systems, web content management systems, and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in a web server or as a Common Gateway Interface (CGI) executable. The web server outputs the results of the interpreted and executed PHP code, which may be any type of data, such as generated HTML code or binary image data. PHP can be used for many programming tasks outside of the web context, such as standalone graphical applications and robotic drone control.

The standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge.

The PHP language evolved without a written formal specification or standard until 2014, with the original implementation acting as the *de facto* standard which other implementations aimed to follow. Since 2014, work has gone on to create a formal PHP specification.

1.4 HTML

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as <img /> and <input /> directly introduce content into the page. Other tags such as <p> surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. Inclusion of CSS defines the look and layout of content.

1.5 CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .CSS file which reduces complexity and repetition in the structural content as well as enabling the .CSS file to be cached to improve the page load speed between the pages that share the file and its formatting.

Separation of formatting and content also makes it feasible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speechbased browser or screen reader), and on Braille-based tactile devices. CSS also has rules for alternate formatting if the content is accessed on a mobile device. The name cascading comes from the specified priority scheme to determine which style rule applies if more than one rule matches a particular element. This cascading priority scheme is predictable.

The CSS specifications are maintained by the World Wide Web Consortium (W3C). Internet media type (MIME type) text/CSS is registered for use with CSS by RFC 2318 (March 1998). The W3C operates a free CSS validation service for CSS documents. In addition to HTML, other markup languages support the use of CSS including XHTML, plain XML, SVG, and XUL.

Chapter 2

LITERATURE SURVEY

2.1 Aim of the Project

- Karna is an Engineering student who is currently in his 1st year. A typical day in his life includes attending his courses, following up on assignments and borrowing books from library to study. He finds it hard to remember the issue date of the book, no proper information about new stock and the antique method of book issuing doesn’t help him. Recently he learns from his classmate about a college which as online system of library management.
- Karna really hopes his college could come up with a more organised and professional technique to regulate such opportunities so that all the students are intimated whenever a new books comes up.

2.2 Purpose of the Project

The purpose of this project is to design, build and implement an internship coordinating system with anytime and anywhere access availability. All user and company information will be stored in a MySQL database and retrieved by PHP and ODBC. The main purpose of this project is to provide an easy-to-use interface for students and faculty members to interact with each other during the course of a student's internship class. Students can view their progress in real time and get the latest information every time they access the system. Moreover, the system offers the authorization function to make sure that students can access his/her records only and all the other information is kept discrete. The student's progress page gives read-only information to the student about his/her progress whereas the instructor can update the student's progress page and email the student for any information if needed. In the system, all the 2 users can manage their own account information such as changing passwords or e-mail addresses. And furthermore, the users have the same login as their department login in order to help users remember their login information. The system assigns a unique login to every user by following the same convention used by the department.

2.3 The benefits of the Project

Simplicity: The project is easy and simple to use.

Usability: It is easy to use and implement.

Flexibility: It is very flexible since it is easy to add new features to it.

2.4 About the project

The proposed project is a Library Management System for a College or a University.

Its role is assisting with books from a College or a University. It is a simple user interface which has two types of users: librarian and students. The Library Management system can be used to keep track of book issued date, last date , new stock, number of books issued. This system results in a systematic and organized grouping of data. Thus, with the help of this system the librarian have complete idea of every students complete record.

Chapter 3

REQUIREMENT SPECIFICATION

The system requirement and specification of our project is as follows:

3.1 Hardware requirements

Processor: i5 Core Processor

Clock speed: 2.5GHz

Monitor: 1024 * 768 Resolution Color

Keyboard: QWERTY

RAM: 1 GB

Motherboard: 845c Intel Motherboard

Backup Media: Floppy/pen drive/Hard disk.

Hard disk: 2 TB HDD

I/O Device: Standard input and output devices.

3.2 Software requirements

MySQL Libraries

Xampp software: Apache Server 2.4.4

Operating system: Windows 10

Chapter 4

SOFTWARE DESIGN

4.1 FRONT END

1. Create Admin login page.

2.Create the landing page in both Admin and Student accounts.

3. Create All the necessary pages for each link and the functionalities.

4. Style all the Web pages.

4.1.1 Functionalities

- ADMIN Side Functionalities:

    1. Admin must be able to view the list of students Department Wise.
    2. Admin must be able to add a new company into the database.
    3. Delete student records based on their Graduation Year.

- STUDENT Side Functionalities:

    1. Check the companies offering Internships.
    2. Check all the details for the internships.
    3. Create a view with Internship ID, Description, Skills.
    4. Students must be able to check which company they are placed in.

4.2 CONNECTION

1. Implement the functionalities for each of the web page.

2. Use the appropriate Query for the functionalities.

3. Follow the same procedure –

4. - Create a SQL Template.
   - Prepare the statement.
   - Bind the parameters if required.
   - Execute the statement.

4.3 BACK END TASKS

1. Create 5 tables.

2. After the required Tables and add the Foreign key Functionalities.
3. Insert the values into the tables.
4. Create views as per requirement.

4.4 PHP MYSQL CONNECTION

- Depending on the version of PHP, there are either two or three PHP APIs for accessing the MySQL database.
- PHP 5 users can choose between the deprecated MySQL extension, mysqli, or PDO.
- PHP 7 removes the MySQL extension, leaving only mysqli and PDO.
- Mysqli – MySQL improved.
- PDO – PHP Data Object.

Chapter 5

IMPLEMENTATION

5.1 CREATION OF TABLES

```
--
-- Table structure for table `book`
--

CREATE TABLE `book` (
  `isbn` char(13) NOT NULL,
  `title` varchar(80) NOT NULL,
  `author` varchar(80) NOT NULL,
  `category` varchar(80) NOT NULL,
  `price` int(4) UNSIGNED NOT NULL,
  `copies` int(10) UNSIGNED NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `book`
--

INSERT INTO `book` (`isbn`, `title`, `author`, `category`, `price`, `copies`)
VALUES
('0000545010225', 'Harry Potter and the Deathly Hallows', 'J. K. Rowling',
'Fiction', 550, 30),
('0000553103547', 'A Game of Thrones', 'George R. R. Martin', 'Fiction', 500,
10),
('0000553106635', 'A Storm of Swords', 'George R. R. Martin', 'Fiction', 550,
15),
('0000553108034', 'A Clash of Kings', 'George R. R. Martin', 'Fiction', 500, 10),
('0000553801503', 'A Feast for Crows', 'George R. R. Martin', 'Fiction', 600,
20),
('0000747532699', 'Harry Potter and the Philosopher''s Stone', 'J. K. Rowling',
'Fiction', 300, 12),
('0000747538492', 'Harry Potter and the Chamber of Secrets', 'J. K. Rowling',
'Fiction', 300, 10),
('0000747542155', 'Harry Potter and the Prisoner of Azkaban', 'J. K. Rowling',
'Fiction', 350, 16),
('0000747546240', 'Harry Potter and the Goblet of Fire', 'J. K. Rowling',
'Fiction', 400, 15),
('0000747551006', 'Harry Potter and the Order of the Phoenix', 'J. K. Rowling',
'Fiction', 400, 20),
('0000747581088', 'Harry Potter and the Half-Blood Prince', 'J. K. Rowling',
'Fiction', 500, 25),
('9780066620992', 'Good to Great', 'Jim Collins', 'Non-fiction', 300, 10),
('9780241257555', 'The Pigeon Tunnel', 'John le CarrÃƒÂ©', 'Non-fiction', 200,
25),
('9780439023511', 'Mockingjay', 'Suzanne Collins', 'Fiction', 500, 20),
('9780439023528', 'The Hunger Games', 'Suzanne Collins', 'Fiction', 400, 10),
('9780545227247', 'Catching Fire', 'Suzanne Collins', 'Fiction', 400, 14),
('9780553801477', 'A Dance with Dragons', 'George R. R. Martin', 'Fiction',
600, 30),
('9780967752808', 'Sandbox Wisdom', 'Tom Asacker', 'Non-fiction', 250, 5),
('9781501141515', 'Born to Run', 'Bruce Springsteen', 'Non-fiction', 250, 20),
('9788183331630', 'Let Us C', 'Yashavant Kanetkar', 'Education', 200, 22),
('9789350776667', 'Computer Graphics and Virtual Reality', 'Sanjesh S.
Pawale', 'Education', 100, 30),
('9789350776773', 'Microcontroller and Embedded Systems', 'Harish G. Narula',
'Education', 80, 15),
('9789350777077', 'Advanced Database Management Systems', 'Mahesh Mali',
'Education', 60, 29),
('9789350777121', 'Operating Systems', 'Rajesh Kadu', 'Education', 50, 24),
('9789351194545', 'Open Source Technologies', 'Dayanand Ambawade',
'Education', 100, 20),
('9789381626719', 'Stay Hungry Stay Foolish', 'Rashmi Bansal', 'Non-fiction',
100, 5);

-- --------------------------------------------------------

--
-- Table structure for table `book_issue_log`
--

CREATE TABLE `book_issue_log` (
  `issue_id` int(11) NOT NULL,
  `member` varchar(20) NOT NULL,
  `book_isbn` varchar(13) NOT NULL,
  `due_date` date NOT NULL,
  `last_reminded` date DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `book_issue_log`
```

```
--

INSERT INTO `book_issue_log` (`issue_id`, `member`, `book_isbn`,
`due_date`, `last_reminded`) VALUES
(1, 'seph32', '9789350777077', '2016-10-17', NULL),
(2, 'seph32', '9780545227247', '2016-10-17', NULL);

--
-- Triggers `book_issue_log`
--
DELIMITER $$
CREATE TRIGGER `issue_book` BEFORE INSERT ON `book_issue_log`
FOR EACH ROW BEGIN
        SET NEW.due_date = DATE_ADD(CURRENT_DATE, INTERVAL 7
DAY);
   UPDATE member SET balance = balance - (SELECT price FROM book
WHERE isbn = NEW.book_isbn) WHERE username = NEW.member;
   UPDATE book SET copies = copies - 1 WHERE isbn = NEW.book_isbn;
   DELETE FROM pending_book_requests WHERE member = NEW.member
AND book_isbn = NEW.book_isbn;
END
$$
DELIMITER ;
DELIMITER $$
CREATE TRIGGER `return_book` BEFORE DELETE ON `book_issue_log`
FOR EACH ROW BEGIN
   UPDATE member SET balance = balance + (SELECT price FROM book
WHERE isbn = OLD.book_isbn) WHERE username = OLD.member;
   UPDATE book SET copies = copies + 1 WHERE isbn = OLD.book_isbn;
END
$$
DELIMITER ;

-- --------------------------------------------------------

--
-- Table structure for table `librarian`
--

CREATE TABLE `librarian` (
  `id` int(11) NOT NULL,
  `username` varchar(20) NOT NULL,
  `password` char(40) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `librarian`
--

INSERT INTO `librarian` (`id`, `username`, `password`) VALUES
(1, 'genesis', '93c768d0152f72bc8d5e782c0b585acc35fb0442');

-- --------------------------------------------------------

--
-- Table structure for table `member`
--

CREATE TABLE `member` (
  `id` int(11) NOT NULL,
  `username` varchar(20) NOT NULL,
  `password` char(40) NOT NULL,
  `name` varchar(80) NOT NULL,
  `email` varchar(80) NOT NULL,
  `balance` int(4) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `member`
--

INSERT INTO `member` (`id`, `username`, `password`, `name`, `email`,
`balance`) VALUES
(1, 'cloud9', 'c67adbca4bd9f7e583f05f4c7edbcb733c7c9233', 'Cloud Strife',
'cloud@shinra.com', 1000),
(2, 'seph32', '75bf2b008d91258f56fc0d3a938ca64b8a631533', 'Sephiroth',
'seph@shinra.com', 540),
(3, 'zack_ff7', '52d849001964af394040dc48b673f748e55e1af7', 'Zack Fair',
'zack@shinra.com', 1000);

-- Triggers `member`
--
DELIMITER $$
CREATE TRIGGER `add_member` AFTER INSERT ON `member` FOR
EACH ROW DELETE FROM pending_registrations WHERE username =
NEW.username
```

```
$$
DELIMITER ;
DELIMITER $$
CREATE TRIGGER `remove_member` AFTER DELETE ON `member` FOR
EACH ROW DELETE FROM pending_book_requests WHERE member =
OLD.username
$$
DELIMITER ;

-- --------------------------------------------------------

--
-- Table structure for table `pending_book_requests`
--

CREATE TABLE `pending_book_requests` (
  `request_id` int(11) NOT NULL,
  `member` varchar(20) NOT NULL,
  `book_isbn` varchar(13) NOT NULL,
  `time` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `pending_book_requests`
--

INSERT INTO `pending_book_requests` (`request_id`, `member`, `book_isbn`,
`time`) VALUES
(1, 'zack_ff7', '9780553801477', '2016-10-10 12:53:27'),
(2, 'cloud9', '0000545010225', '2016-10-10 12:53:59'),
(5, 'seph32', '0000553103547', '2016-10-10 12:59:45');

-- --------------------------------------------------------
--
-- Table structure for table `pending_registrations`
--

CREATE TABLE `pending_registrations` (
  `username` varchar(20) NOT NULL,
  `password` char(40) NOT NULL,
  `name` varchar(80) NOT NULL,
  `email` varchar(80) NOT NULL,
  `balance` int(4) NOT NULL,
  `time` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `pending_registrations`
--

INSERT INTO `pending_registrations` (`username`, `password`, `name`,
`email`, `balance`, `time`) VALUES
('test', 'a94a8fe5ccb19ba61c4c0873d391e987982fbbd3', 'Test', 'test@test.com',
500, '2016-10-10 13:01:13'),
('test2', '109f4b3c50d7b0df729d299bc6f8e9ef9066971f', 'Test 2',
'test2@test2.com', 800, '2016-10-10 13:03:41');

--
-- Indexes for dumped tables
--

--
-- Indexes for table `book`
--
ALTER TABLE `book`
  ADD PRIMARY KEY (`isbn`);

--
-- Indexes for table `book_issue_log`
--
ALTER TABLE `book_issue_log`
  ADD PRIMARY KEY (`issue_id`);

--
-- Indexes for table `librarian`
--
ALTER TABLE `librarian`
  ADD PRIMARY KEY (`id`),
  ADD UNIQUE KEY `username` (`username`);

--
-- Indexes for table `member`
--
ALTER TABLE `member`
  ADD PRIMARY KEY (`id`),
  ADD UNIQUE KEY `username` (`username`),
  ADD UNIQUE KEY `email` (`email`);

--
-- Indexes for table `pending_book_requests`
--
ALTER TABLE `pending_book_requests`
  ADD PRIMARY KEY (`request_id`);

--
-- Indexes for table `pending_registrations`
--
ALTER TABLE `pending_registrations`
  ADD PRIMARY KEY (`username`),
  ADD UNIQUE KEY `email` (`email`);

--
-- AUTO_INCREMENT for dumped tables
--

--
-- AUTO_INCREMENT for table `book_issue_log`
--
ALTER TABLE `book_issue_log`
  MODIFY `issue_id` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=3;

--
-- AUTO_INCREMENT for table `librarian`
--
ALTER TABLE `librarian`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=2;

--
-- AUTO_INCREMENT for table `member`
--
ALTER TABLE `member`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=4;

--
-- AUTO_INCREMENT for table `pending_book_requests`
--
```

```
ALTER TABLE `pending_book_requests`
  MODIFY `request_id` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=6;
```

CSS CODES:

```
/*----------Custom checkbox----------*/
.control-group {
	display: inline-block;
	width: 200px;
	height: 210px;
	margin: 10px;
	padding: 30px;
	text-align: left;
	vertical-align: top;
	background: #fff;
	box-shadow: 0 1px 2px rgba(0,0,0,.1);
}

.control {
	font-size: 18px;
	position: relative;
	display: block;
	margin-bottom: 15px;
	padding-left: 30px;
	cursor: pointer;
}

.control input {
	position: absolute;
	z-index: -1;
	opacity: 0;
}

.control__indicator {
	position: absolute;
	top: -2px;
	left: 0;
	width: 20px;
	height: 20px;
	background: #e6e6e6;
}

/* Hover and focus states */
.control:hover input ~ .control__indicator,
.control input:focus ~ .control__indicator {
	background: #cccccc;
}

/* Checked state */
.control input:checked ~ .control__indicator {
	-webkit-animation: cd-bounce 0.3s;
	-moz-animation: cd-bounce 0.3s;
	animation: cd-bounce 0.3s;
	background: #d75069;
}

/* Disabled state */
```

```
.control input:disabled ~ .control__indicator {
	-webkit-animation: cd-bounce 0.3s;
	-moz-animation: cd-bounce 0.3s;
	animation: cd-bounce 0.3s;
	pointer-events: none;
	opacity: .6;
	background: #e6e6e6;
}

/* Check mark */
.control__indicator:after {
	position: absolute;
	display: none;
	content: '';
}

/* Show check mark */
.control input:checked ~ .control__indicator:after {
	display: block;
}

/* Checkbox tick */
.control--checkbox .control__indicator:after {
	top: 4px;
	left: 8px;
	width: 5px;
	height: 10px;
	transform: rotate(45deg);
```

```
          border: solid #fff;
          border-width: 0 2px 2px 0;
}

@-webkit-keyframes cd-bounce {
  0%, 100% {
    -webkit-transform: scale(1);
  }
  50% {
    -webkit-transform: scale(0.8);
  }
}
@-moz-keyframes cd-bounce {
  0%, 100% {
    -moz-transform: scale(1);
  }
  50% {
    -moz-transform: scale(0.8);
  }
}
@keyframes cd-bounce {
  0%, 100% {
    -webkit-transform: scale(1);
    -moz-transform: scale(1);
    -ms-transform: scale(1);
    -o-transform: scale(1);
    transform: scale(1);
  }
  50% {
    -webkit-transform: scale(0.8);
    -moz-transform: scale(0.8);
    -ms-transform: scale(0.8);
    -o-transform: scale(0.8);
    transform: scale(0.8);
  }
}
/*----------Custom radio button----------*/
.control-group {
	display: inline-block;
	width: 200px;
	height: 210px;
	margin: 10px;
	padding: 30px;
	text-align: left;
	vertical-align: top;
	background: #ffffff;
	box-shadow: 0 1px 2px rgba(0,0,0,.1);
}

.control {
	font-size: 18px;
	position: relative;
	display: block;
	margin-bottom: 15px;
	padding-left: 30px;
	cursor: pointer;
```

```
}

.control input {
	position: absolute;
	z-index: -1;
	opacity: 0;
}

.control__indicator {
	position: absolute;
	top: 2px;
	left: 0;
	width: 20px;
	height: 20px;
	background: #e6e6e6;
}

.control--radio .control__indicator {
	border-radius: 50%;
}

/* Hover and focus states */
.control:hover input ~ .control__indicator,
.control input:focus ~ .control__indicator {
	background: #cccccc;
}

/* Checked state */
```

```
.control input:checked ~ .control__indicator {
        -webkit-animation: cd-bounce 0.3s;
  -moz-animation: cd-bounce 0.3s;
  animation: cd-bounce 0.3s;
        background: #d75069;
}

/* Disabled state */
.control input:disabled ~ .control__indicator {
        -webkit-animation: cd-bounce 0.3s;
        -moz-animation: cd-bounce 0.3s;
        animation: cd-bounce 0.3s;
        pointer-events: none;
        opacity: .6;
        background: #e6e6e6;
}

/* Check mark */
.control__indicator:after {
        position: absolute;
        display: none;
        content: ";
}

/* Show check mark */
.control input:checked ~ .control__indicator:after {
        display: block;
}
```

```
/* Radio button inner circle */
.control--radio .control__indicator:after {
	top: 7px;
	left: 7px;
	width: 6px;
	height: 6px;
	border-radius: 50%;
	background: #ffffff;
}

@-webkit-keyframes cd-bounce {
  0%, 100% {
    -webkit-transform: scale(1);
  }
  50% {
    -webkit-transform: scale(0.8);
  }
}
@-moz-keyframes cd-bounce {
  0%, 100% {
    -moz-transform: scale(1);
  }
  50% {
    -moz-transform: scale(0.8);
  }
}
@keyframes cd-bounce {
  0%, 100% {
    -webkit-transform: scale(1);
    -moz-transform: scale(1);
    -ms-transform: scale(1);
    -o-transform: scale(1);
    transform: scale(1);
  }
  50% {
    -webkit-transform: scale(0.8);
    -moz-transform: scale(0.8);
    -ms-transform: scale(0.8);
    -o-transform: scale(0.8);
    transform: scale(0.8);
  }
}
/*----------Form styles----------*/
.cd-form {
  width: 90%;
  max-width: 600px;
  margin: 4em auto;
  font-size: 1.3rem;
  color: #94aab0;
  margin-bottom: 10px;
  display: block;
}

.cd-form::after {
  clear: both;
  content: "";
  display: table;
}

.cd-form legend {
  padding-bottom: 10px;
  margin-bottom: 20px;
  font-size: 2rem;
  border-bottom: 1px solid #ecf0f1;
  display: block;
  width: 100%;
  -webkit-appearance: none;
  -moz-appearance: none;
  -ms-appearance: none;
  -o-appearance: none;
  appearance: none;
}

.cd-form div {
  position: relative;
  margin: 20px 0;
}

.cd-form input, .cd-form select {
  font-family: "Open Sans", sans-serif;
  font-size: 1.6rem;
  color: #2b3e51;
}
```

```
.cd-form input[type="text"],
.cd-form input[type="password"],
.cd-form input[type="email"],
.cd-form input[type="number"],
.cd-form select,
.cd-form legend {
  display: block;
  width: 100%;
  -webkit-appearance: none;
  -moz-appearance: none;
  -ms-appearance: none;
  -o-appearance: none;
  appearance: none;
}

.cd-form input[type="text"],
.cd-form input[type="password"],
.cd-form input[type="email"],
.cd-form input[type="number"],
.cd-form select {
  padding: 12px;
  border: 1px solid #cfd9db;
  background-color: #ffffff;
  border-radius: .25em;
  box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.08);
}
```

```
.cd-form input[type="text"]:focus,
.cd-form input[type="email"]:focus,
.cd-form input[type="password"]:focus,
.cd-form input[type="number"]:focus,
.cd-form select:focus {
  outline: none;
  border-color: #d75069;
  box-shadow: 0 0 5px rgba(44, 151, 222, 0.2);
}

.cd-form .cd-select {
  position: relative;
}

.cd-form .cd-select::after {
  content: ";
  position: absolute;
  z-index: 1;
  right: 16px;
  top: 50%;
  margin-top: -8px;
  display: block;
  width: 16px;
  height: 16px;
  background: url("../img/ic_arrow.svg") no-repeat center center;
  pointer-events: none;
}
```

```
.cd-form select {
  box-shadow: 0 1px 3px rgba(0, 0, 0, 0.08);
  cursor: pointer;
}

.cd-form select::-ms-expand {
  display: none;
}

.cd-form input[type="submit"] {
  border: none;
  background: #d75069;
  border-radius: .25em;
  padding: 16px 20px;
  color: #ffffff;
  font-family: "Open Sans", sans-serif;
  font-weight: bold;
  float: right;
  cursor: pointer;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  -webkit-appearance: none;
  -moz-appearance: none;
  -ms-appearance: none;
  -o-appearance: none;
  appearance: none;
}
```

```
.cd-form input[type="submit"]:focus {
  outline: none;
  background: #2b3e51;
}

.cd-form input[type="submit"]:active {
  -webkit-transform: scale(0.9);
  -moz-transform: scale(0.9);
  -ms-transform: scale(0.9);
  -o-transform: scale(0.9);
  transform: scale(0.9);
}

.cd-form [required] {
  background: url("img/ic_required.svg") no-repeat top right;
}

.cd-form .error-message {
	display: none;
}

.cd-form .error-message p {
  background: #e94b35;
  color: #ffffff;
  font-size: 1.4rem;
  text-align: center;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  border-radius: .25em;
  padding: 16px;
}

.cd-form .success-message p {
  background: #4caf50;
  color: #ffffff;
  font-size: 1.4rem;
  text-align: center;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
  border-radius: .25em;
  padding: 16px;
}

.cd-form .error-field {
  border-color: #e94b35 !important;
}

@media only screen and (min-width: 600px) {
  .cd-form div {
    margin: 32px 0;
  }
  .cd-form legend + div {
    margin-top: 20px;
  }
  .cd-form input[type="text"],
  .cd-form input[type="password"],
  .cd-form input[type="email"],
  .cd-form input[type="number"],
  .cd-form select {
    padding: 16px;
  }
}
/*----------Global styles----------*/
*, *::after, *::before {
  -webkit-box-sizing: border-box;
  -moz-box-sizing: border-box;
  box-sizing: border-box;
}

html {
  font-size: 62.5%;
}

body {
  font-size: 1.8rem;
  font-family: "Open Sans", sans-serif;
  color: #2b3e51;
  background-color: #ffffff;
}
/*----------Header style----------*/
html * {
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale;
}
```

```
*, *:after, *:before {
  -webkit-box-sizing: border-box;
  -moz-box-sizing: border-box;
  box-sizing: border-box;
}

body {
  font-size: 100%;
  font-family: "Open Sans", sans-serif;
  background-color: white;
  margin: 0;
}

img {
  max-width: 100%;
}

header {
  position: relative;
  height: 50px;
  background: #343642;
}

header #cd-logo {
  float: left;
  margin: 0 0 0 5%;
  /* reduce logo size on mobile and make sure it is left aligned with the transform-origin property */
  -webkit-transform-origin: 0 50%;
  -moz-transform-origin: 0 50%;
  -ms-transform-origin: 0 50%;
  -o-transform-origin: 0 50%;
  transform-origin: 0 50%;
  -webkit-transform: scale(0.8);
  -moz-transform: scale(0.8);
  -ms-transform: scale(0.8);
  -o-transform: scale(0.8);
  transform: scale(0.8);
}

header #cd-logo img , header #cd-logo p{
  display: inline-block;
  vertical-align: middle;
}

header #cd-logo p{
	color: #d75069;
	font-weight: bold;
	font-size: 1.4rem;
}

header::after {
  /* clearfix */
  content: ";
  display: table;
  clear: both;
}

header a{
        text-decoration: none;
}

@media only screen and (min-width: 768px) {
  header {
    height: 80px;
  }
  header #cd-logo {
    margin: 4px 0 0 5%;
    -webkit-transform: scale(1);
    -moz-transform: scale(1);
    -ms-transform: scale(1);
    -o-transform: scale(1);
    transform: scale(1);
  }
}

/*----------Index styles----------*/
#allTheThings {
  width: 90%;
  max-width: 800px;
  text-align: center;
  margin: 8em auto;
  font-size: 1.3rem;
  color: #94aab0;
  display: block;
}

a{
	color: #94aab0;
	text-decoration: none;
}

#member{
	display: inline-block;
}

#verticalLine {
	display: inline-block;
	margin-left: 20px;
    border-left: solid #343642;
}

#librarian-link{
	margin-left: 20px;
}

#member, #librarian
{
	transition: all .2s ease-in-out;
}
```

```
#member:hover, #librarian:hover
{
    transform: scale(1.1);
}
```

PHP CODES:

```
/*----------Header Member----------*/
<html>
    <head>
        <link rel="stylesheet" type="text/css" href="http://fonts.googleapis.com/css?family=Open+Sans:400,300,700">
        <link rel="stylesheet" type="text/css" href="css/header_member_style.css" />
    </head>
    <body>
        <header>
            <div id="cd-logo">
                <a href="../">
                    <img src="img/ic_logo.svg" alt="Logo" />
                    <p>LIBRARY</p>
                </a>
            </div>

            <div class="dropdown">
                <button class="dropbtn">
                    <p id="librarian-name"><?php echo $_SESSION['username'] ?></p>
                </button>
                <div class="dropdown-content">
```

```
                    <a>
                        <?php
                            $query = $con->prepare("SELECT balance FROM member WHERE username = ?;");
                            $query->bind_param("s", $_SESSION['username']);
                            $query->execute();
                            $balance = (int)$query->get_result()->fetch_array()[0];
                            echo "Balance: $".$balance;
                        ?>
                    </a>
                    <a href="my_books.php">My books</a>
                    <a href="../logout.php">Logout</a>
                </div>
            </div>
        </header>
    </body>
</html>
/*----------Home----------*/
<?php
    require "../db_connect.php";
    require "../message_display.php";
    require "verify_member.php";
    require "header_member.php";
?>

<html>
    <head>
```

```
        <title>Welcome</title>
        <link rel="stylesheet" type="text/css"
href="../css/global_styles.css">
        <link rel="stylesheet" type="text/css" href="css/home_style.css">
        <link rel="stylesheet" type="text/css"
href="../css/custom_radio_button_style.css">
    </head>
    <body>
        <?php
            $query = $con->prepare("SELECT * FROM book ORDER
BY title");
            $query->execute();
            $result = $query->get_result();
            if(!$result)
                die("ERROR: Couldn't fetch books");
            $rows = mysqli_num_rows($result);
            if($rows == 0)
                echo "<h2 align='center'>No books available</h2>";
            else
            {
                echo "<form class='cd-form' method='POST'
action='#'>";
                echo "<legend>Available books</legend>";
                echo "<div class='error-message' id='error-
message'>
                        <p id='error'></p>
                    </div>";
                echo "<table width='100%' cellpadding=10
cellspacing=10>";
                echo "<tr>
```

```
                        <th></th>
                        <th>ISBN<hr></th>
                        <th>Title<hr></th>
                        <th>Author<hr></th>
                        <th>Category<hr></th>
                        <th>Price<hr></th>
                        <th>Copies available<hr></th>
                    </tr>";
                for($i=0; $i<$rows; $i++)
                {
                    $row = mysqli_fetch_array($result);
                    echo "<tr>
                            <td>
                                <label          class='control
control--radio'>
                                    <input    type='radio'
name='rd_book' value=".$row[0]." />
                                <div
class='control__indicator'></div>
                            </td>";
                    for($j=0; $j<6; $j++)
                        if($j == 4)
                            echo "<td>$".$row[$j]."</td>";
                        else
                            echo "<td>".$row[$j]."</td>";
                    echo "</tr>";
                }
                echo "</table>";
                echo "<br /><br /><input type='submit'
name='m_request' value='Request book' />";
                echo "</form>";
            }

            if(isset($_POST['m_request']))
            {
                if(empty($_POST['rd_book']))
                    echo error_without_field("Please select a book
to issue");
                else
                {
                    $query = $con->prepare("SELECT copies
FROM book WHERE isbn = ?;");
                    $query->bind_param("s",
$_POST['rd_book']);
                    $query->execute();
                    $copies = mysqli_fetch_array($query-
>get_result())[0];
                    if($copies == 0)
                        echo error_without_field("No copies of
the selected book are available");
                    else
                    {
                        $query = $con->prepare("SELECT
request_id FROM pending_book_requests WHERE member = ?;");
                        $query->bind_param("s",
$_SESSION['username']);
                        $query->execute();
                        if(mysqli_num_rows($query-
>get_result()) == 1)
```

```
                            echo error_without_field("You
can only request one book at a time");
                        else
                        {
                            $query = $con-
>prepare("SELECT book_isbn FROM book_issue_log WHERE member =
?;");
                            $query->bind_param("s",
$_SESSION['username']);
                            $query->execute();
                            $result = $query->get_result();
                            if(mysqli_num_rows($result) >=
3)
                                echo
error_without_field("You cannot issue more than 3 books at a time");
                            else
                            {
                                $rows =
mysqli_num_rows($result);
                                for($i=0; $i<$rows; $i++)

    if(strcmp(mysqli_fetch_array($result)[0], $_POST['rd_book']) == 0)
                                        break;
                                if($i < $rows)
                                    echo
error_without_field("You have already issued a copy of this book");
                                else
                                {
                                    $query = $con-
>prepare("SELECT balance FROM member WHERE username = ?;");
```

```
$query->bind_param("s", $_SESSION['username']);
$query->execute();
$memberBalance = mysqli_fetch_array($query->get_result())[0];


$query = $con->prepare("SELECT price FROM book WHERE isbn = ?;");
$query->bind_param("s", $_POST['rd_book']);
$query->execute();
$bookPrice = mysqli_fetch_array($query->get_result())[0];
if($memberBalance < $bookPrice)
    echo error_without_field("You do not have sufficient balance to issue this book");
else
{
    $query = $con->prepare("INSERT INTO pending_book_requests(member, book_isbn) VALUES(?, ?);");
    $query->bind_param("ss", $_SESSION['username'], $_POST['rd_book']);
    if(!$query->execute())
        echo error_without_field("ERROR: Couldn\'t request book");
    else
        echo success("Book successfully requested. You will be notified by email when the book is issued to your account");
```

```
                                    }
                                }
                            }
                        }
                    }
                }
            }
        ?>
    </body>
</html>
/*----------Index ----------*/
<?php
    require "../db_connect.php";
    require "../message_display.php";
    require "../verify_logged_out.php";
    require "../header.php";
?>

<html>
    <head>
        <title>Member Login</title>
        <link rel="stylesheet" type="text/css"
href="../css/global_styles.css">
        <link rel="stylesheet" type="text/css"
href="../css/form_styles.css">
        <link rel="stylesheet" type="text/css" href="css/index_style.css">
    </head>
    <body>
```

```
        <form class="cd-form" method="POST" action="#">

            <legend>Member Login</legend>

            <div class="error-message" id="error-message">
                <p id="error"></p>
            </div>

            <div class="icon">
                <input class="m-user" type="text" name="m_user" placeholder="Username" required />
            </div>

            <div class="icon">
                <input class="m-pass" type="password" name="m_pass" placeholder="Password" required />
            </div>

            <input type="submit" value="Login" name="m_login" />

            <br /><br /><br /><br />

            <p align="center">Don't have an account?&nbsp;<a href="register.php">Sign up</a>
        </form>
    </body>

    <?php
        if(isset($_POST['m_login']))
        {
            $query = $con->prepare("SELECT id, balance FROM member WHERE username = ? AND password = ?;");
            $query->bind_param("ss", $_POST['m_user'], sha1($_POST['m_pass']));
            $query->execute();
            $result = $query->get_result();

            if(mysqli_num_rows($result) != 1)
                echo error_without_field("Invalid username/password combination");
            else
            {
                $resultRow = mysqli_fetch_array($result);
                $balance = $resultRow[1];
                if($balance < 0)
                    echo error_without_field("Your account has been suspended. Please contact a librarian for further information");
                else
                {
                    $_SESSION['type'] = "member";
                    $_SESSION['id'] = $resultRow[0];
                    $_SESSION['username'] = $_POST['m_user'];
                    header('Location: home.php');
                }
            }
        }
    ?>
```

```
</html>
<?php
    require "../db_connect.php";
    require "../message_display.php";
    require "verify_member.php";
    require "header_member.php";
?>
```

/*----------my books ----------*/

```
<html>
    <head>
        <title>My books</title>
        <link rel="stylesheet" type="text/css" href="../css/global_styles.css">
        <link rel="stylesheet" type="text/css" href="../css/custom_checkbox_style.css">
        <link rel="stylesheet" type="text/css" href="css/my_books_style.css">
    </head>
    <body>

        <?php
            $query = $con->prepare("SELECT book_isbn FROM book_issue_log WHERE member = ?;");
            $query->bind_param("s", $_SESSION['username']);
            $query->execute();
            $result = $query->get_result();
            $rows = mysqli_num_rows($result);
            if($rows == 0)
```

```
                echo "<h2 align='center'>No books currently
issued</h2>";
            else
            {
                echo "<form class='cd-form' method='POST'
action='#'>";
                echo "<legend>My books</legend>";
                echo "<div class='success-message' id='success-
message'>
                        <p id='success'></p>
                    </div>";
                echo "<div class='error-message' id='error-
message'>
                        <p id='error'></p>
                    </div>";
                echo"<table width='100%' cellpadding='10'
cellspacing='10'>
                        <tr>
                            <th></th>
                            <th>ISBN<hr></th>
                            <th>Title<hr></th>
                            <th>Author<hr></th>
                            <th>Category<hr></th>
                            <th>Due Date<hr></th>
                        </tr>";
                for($i=0; $i<$rows; $i++)
                {
                    $isbn = mysqli_fetch_array($result)[0];
                    if($isbn != NULL)
```

```
          {
            $query = $con->prepare("SELECT title,
author, category FROM book WHERE isbn = ?;");
            $query->bind_param("s", $isbn);
            $query->execute();
            $innerRow                                   =
mysqli_fetch_array($query->get_result());
            echo "<tr>
                <td>
                  <label class='control
control--checkbox'>
                    <input
type='checkbox' name='cb_book".$i."' value='".$isbn."'>
                    <div
class='control__indicator'></div>
                  </label>
                </td>";
            echo "<td>".$isbn."</td>";
            for($j=0; $j<3; $j++)
              echo
"<td>".$innerRow[$j]."</td>";
            $query    =    $con->prepare("SELECT
due_date FROM book_issue_log WHERE member = ? AND book_isbn = ?;");
            $query->bind_param("ss",
$_SESSION['username'], $isbn);
            $query->execute();
            echo
"<td>".mysqli_fetch_array($query->get_result())[0]."</td>";
            echo "</tr>";
          }
        }
```

```
                echo "</table><br />";
                echo "<input type='submit' name='b_return' value='Return selected books' />";
                echo "</form>";
            }

            if(isset($_POST['b_return']))
            {
                $books = 0;
                for($i=0; $i<$rows; $i++)
                    if(isset($_POST['cb_book'.$i]))
                    {
                        $query = $con->prepare("SELECT due_date FROM book_issue_log WHERE member = ? AND book_isbn = ?;");
                        $query->bind_param("ss", $_SESSION['username'], $_POST['cb_book'.$i]);
                        $query->execute();
                        $due_date = mysqli_fetch_array($query->get_result())[0];

                        $query = $con->prepare("SELECT DATEDIFF(CURRENT_DATE, ?);");
                        $query->bind_param("s", $due_date);
                        $query->execute();
                        $days = (int)mysqli_fetch_array($query->get_result())[0];

                        $query = $con->prepare("DELETE FROM book_issue_log WHERE member = ? AND book_isbn = ?;");
```

```
                                        $query->bind_param("ss",
$_SESSION['username'], $_POST['cb_book'.$i]);
                                        if(!$query->execute())

     die(error_without_field("ERROR: Couldn\'t return the books"));


                                        if($days > 0)
                                        {
                                             $penalty = 5*$days;
                                             $query          =          $con-
>prepare("SELECT price FROM book WHERE isbn = ?;");
                                             $query->bind_param("s",
$_POST['cb_book'.$i]);
                                             $query->execute();
                                             $price                         =
mysqli_fetch_array($query->get_result())[0];
                                             if($price < $penalty)
                                                  $penalty = $price;
                                             $query          =          $con-
>prepare("UPDATE member SET balance = balance - ? WHERE username =
?;");
                                             $query->bind_param("ds",
$penalty, $_SESSION['username']);
                                             $query->execute();
                                             echo '<script>

     document.getElementById("error").innerHTML += "A penalty of Rs.
'.$penalty.' was charged for keeping book '.$_POST['cb_book'.$i].' for '.$days.'
days after the due date.<br />";

     document.getElementById("error-message").style.display = "block";
                                                  </script>';
```

```
                        }
                        $books++;
                    }
                if($books > 0)
                {
                    echo '<script>

    document.getElementById("success").innerHTML = "Successfully
returned '.$books.' books";

    document.getElementById("success-message").style.display = "block";
                        </script>';
                    $query = $con->prepare("SELECT balance
FROM member WHERE username = ?;");
                    $query->bind_param("s",
$_SESSION['username']);
                    $query->execute();

                    $balance = (int)mysqli_fetch_array($query-
>get_result())[0];
                    if($balance < 0)
                        header("Location: ../logout.php");
                }
                else
                    echo error_without_field("Please select a book
to return");
            }
        ?>

    </body>
```

```
</html>
/*----------register----------*/
<?php
    require "../db_connect.php";
    require "../message_display.php";
    require "../header.php";
?>

<html>
    <head>
        <title>Register</title>
        <link rel="stylesheet" type="text/css" href="../css/global_styles.css">
        <link rel="stylesheet" type="text/css" href="../css/form_styles.css">
        <link rel="stylesheet" href="css/register_style.css">
    </head>
    <body>
        <form class="cd-form" method="POST" action="#">
            <legend>Enter your details</legend>

                <div class="error-message" id="error-message">
                    <p id="error"></p>
                </div>

                <div class="icon">
                    <input class="m-user" type="text" name="m_user" id="m_user" placeholder="Username" required />
                </div>
                <div class="icon">
                    <input class="m-pass" type="password" name="m_pass" placeholder="Password" required />
                </div>

                <div class="icon">
                    <input class="m-name" type="text" name="m_name" placeholder="Full Name" required />
                </div>

                <div class="icon">
                    <input class="m-email" type="email" name="m_email" id="m_email" placeholder="Email" required />
                </div>

                <div class="icon">
                    <input class="m-balance" type="number" name="m_balancwe" id="m_balance" placeholder="Initial Balance" required />
                </div>

                <br />
                <input type="submit" name="m_register" value="Register" />
        </form>
    </body>

    <?php
        if(isset($_POST['m_register']))
        {
            if($_POST['m_balance'] < 500)
                echo error_with_field("You need a balance of at least
500 to open an account", "m_balance");
            else
            {
                $query = $con->prepare("(SELECT username
FROM member WHERE username = ?) UNION (SELECT username FROM
pending_registrations WHERE username = ?);");
                $query->bind_param("ss", $_POST['m_user'],
$_POST['m_user']);
                $query->execute();
                if(mysqli_num_rows($query->get_result()) != 0)
                    echo error_with_field("The username you
entered is already taken", "m_user");
                else
                {
                    $query = $con->prepare("(SELECT email
FROM member WHERE email = ?) UNION (SELECT email FROM
pending_registrations WHERE email = ?);");
                    $query->bind_param("ss",
$_POST['m_email'], $_POST['m_email']);
                    $query->execute();
                    if(mysqli_num_rows($query->get_result()) !=
0)
                        echo error_with_field("An account is
already registered with that email", "m_email");
                    else
                    {
                        $query = $con->prepare("INSERT
INTO pending_registrations(username, password, name, email, balance)
VALUES(?, ?, ?, ?, ?);");
```

```
                        $query->bind_param("ssssd",
$_POST['m_user'], sha1($_POST['m_pass']), $_POST['m_name'],
$_POST['m_email'], $_POST['m_balance']);
                        if($query->execute())
                            echo success("Details recorded.
You will be notified on the email ID provided when your details have been
verified");
                        else
                            echo
error_without_field("Couldn\'t record details. Please try again later");
                    }
                }
            }
        }
    ?>
</html>
```

/*----------**verify member** ----------*/

```
<?php
    session_start();

    if(empty($_SESSION['type']))
        header("Location: ..");

    else if(strcmp($_SESSION['type'], "librarian") == 0)
        header("Location: ../librarian/home.php");
?>
```

Chapter 6

SNAPSHOTS

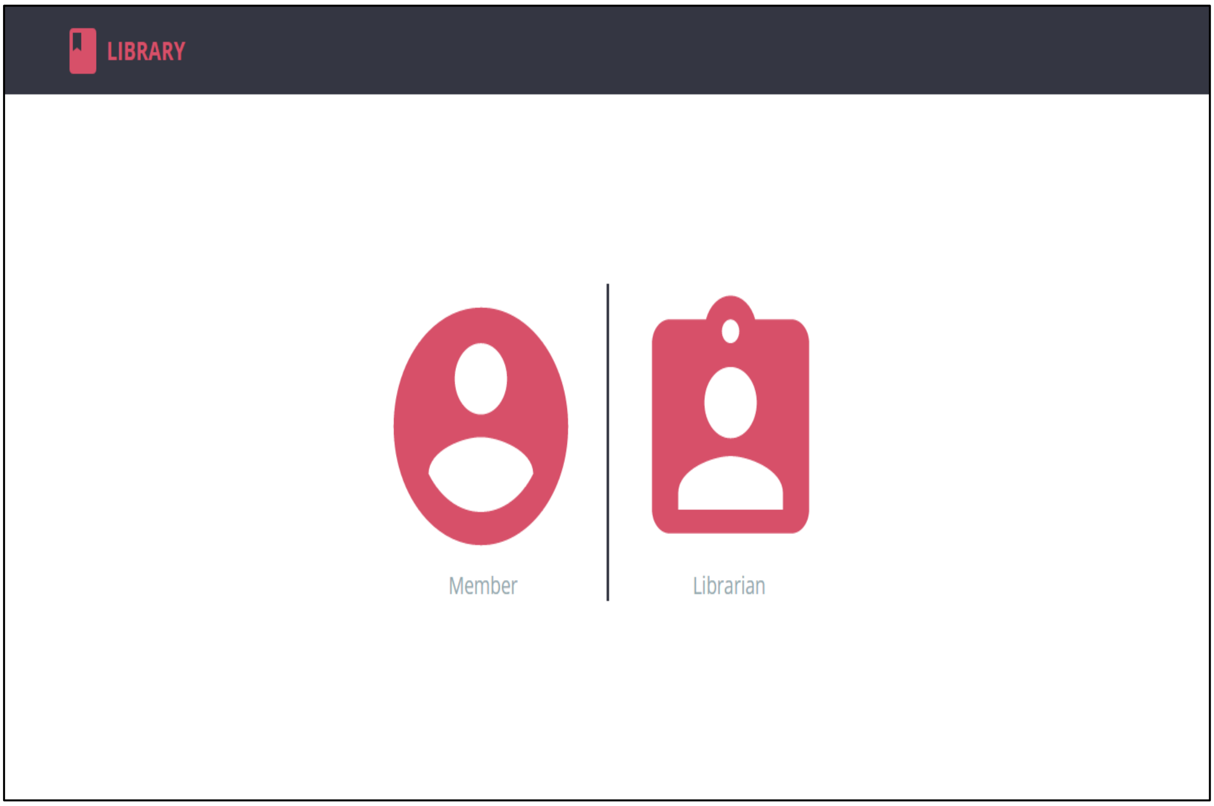
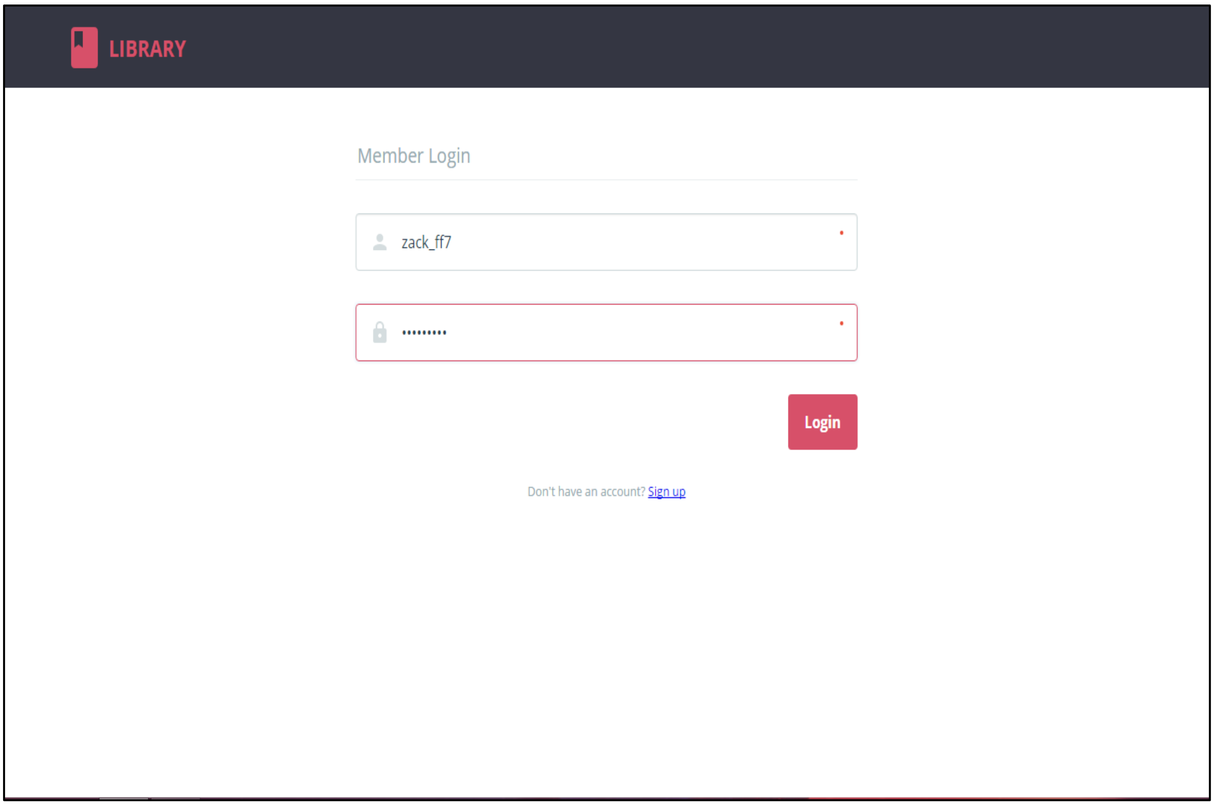


fig: home page



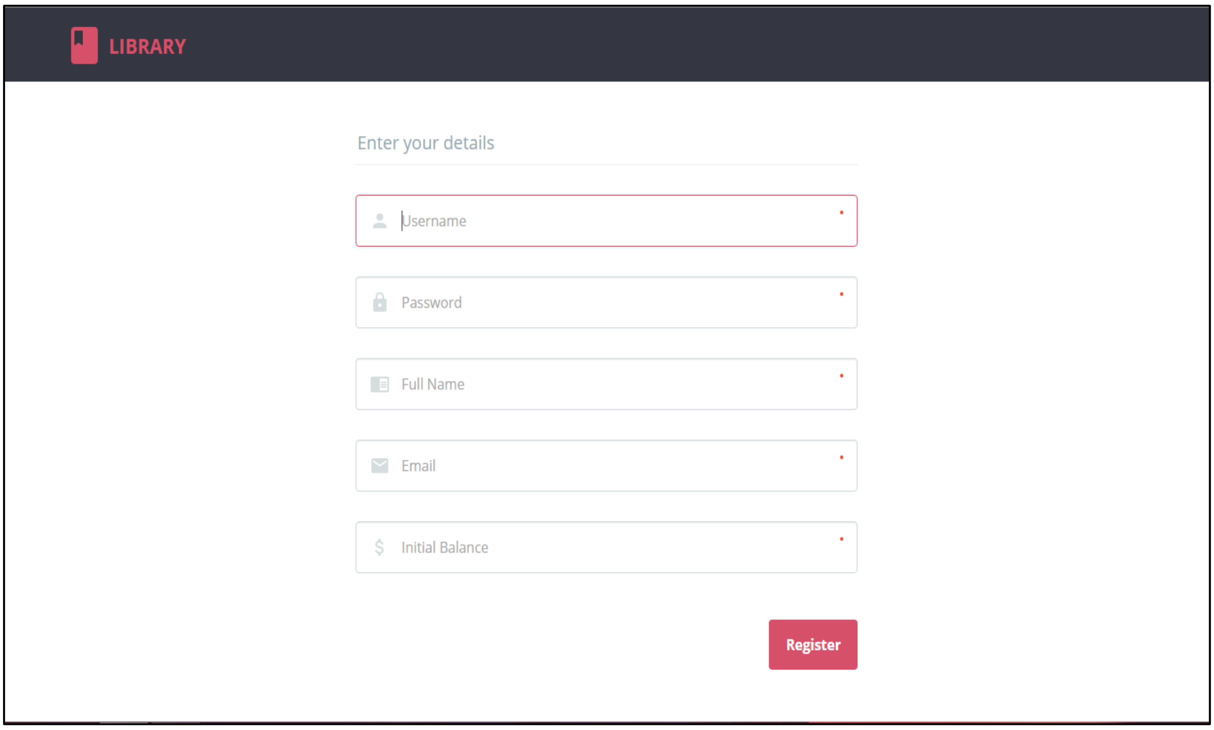
Member Login

zack_ff7

•••••••••

Don't have an account? Sign up

Fig: member login



Enter your details

Username

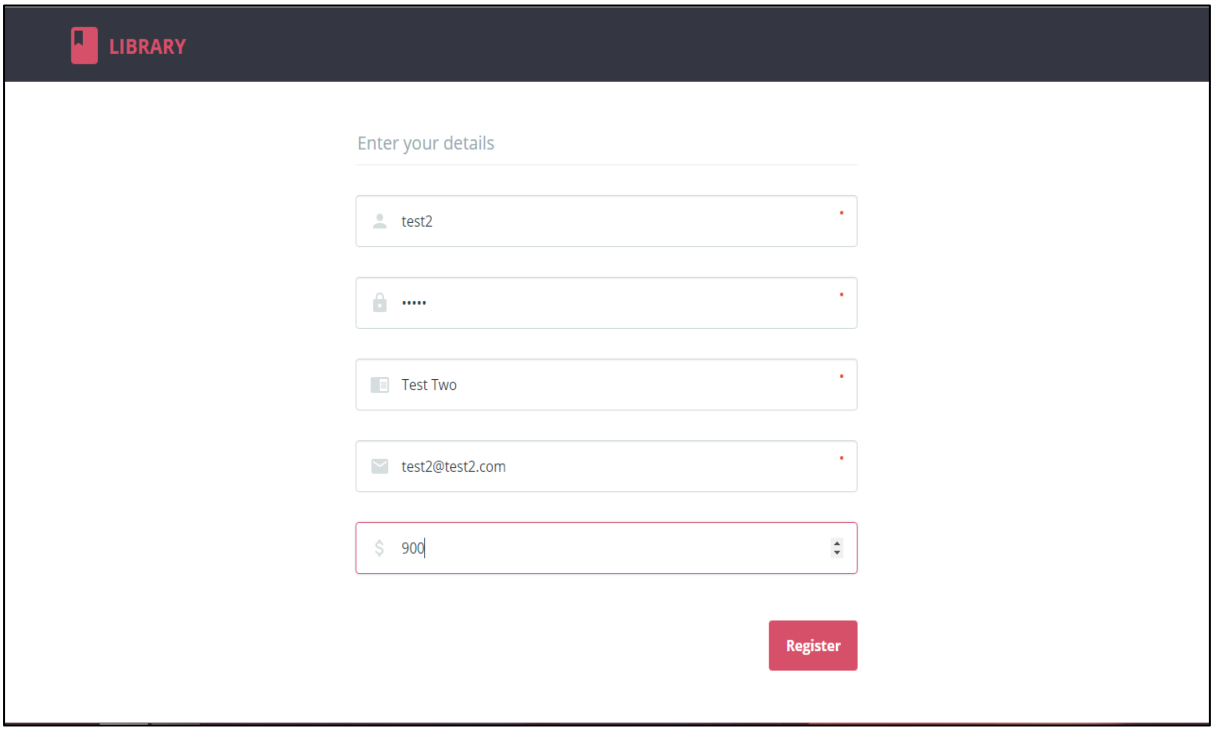
Password

Full Name

Email

Initial Balance

Fig: member registration1



test2

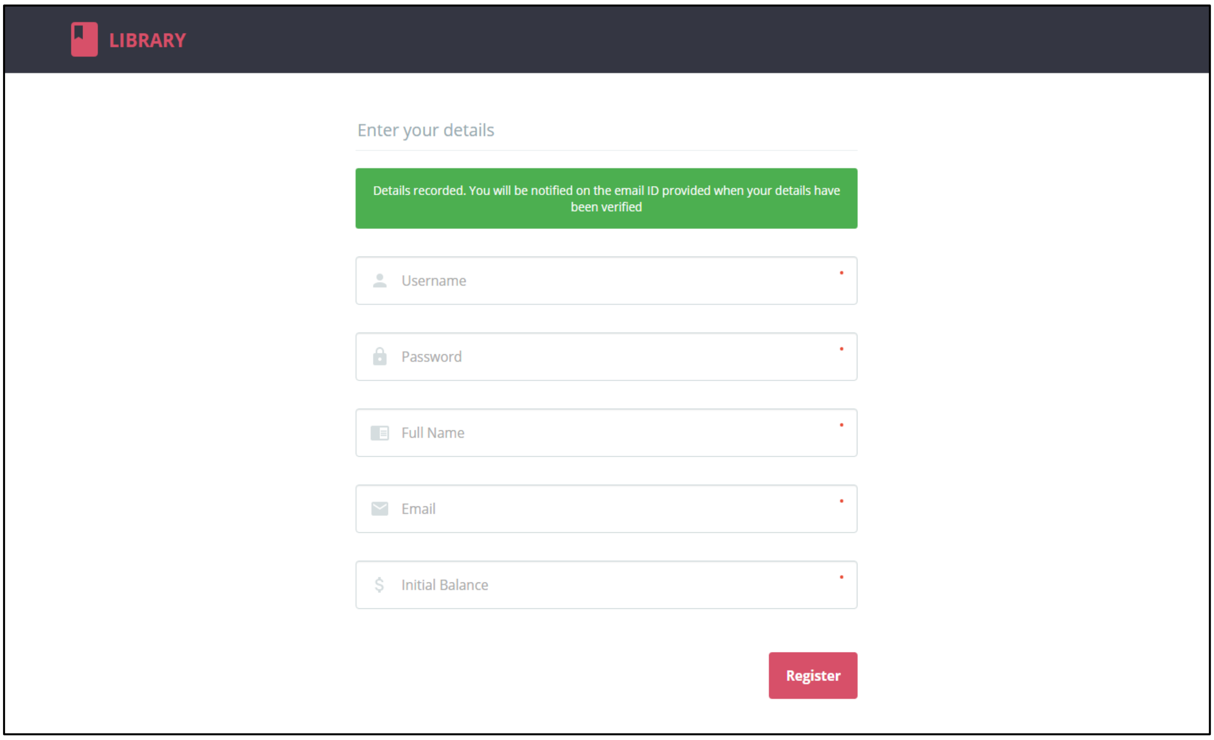
•••••

Test Two

test2@test2.com

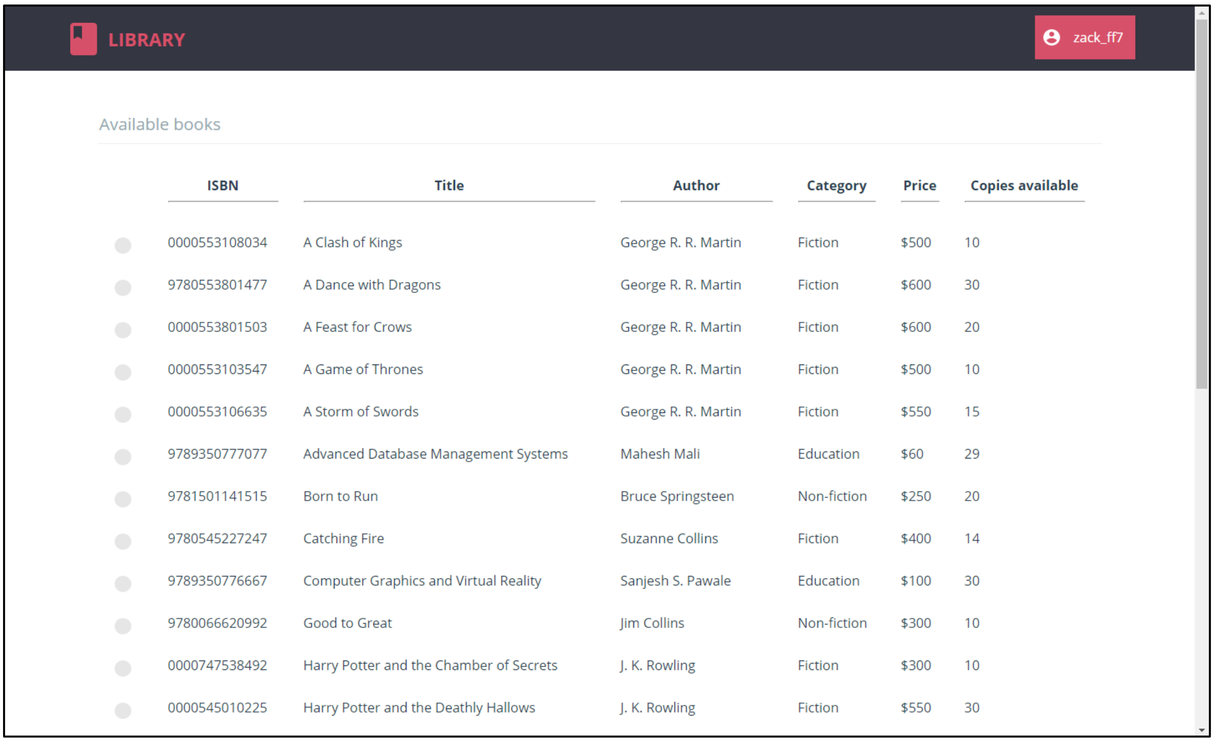
900

Fig: member registration2



Details recorded. You will be notified on the email ID provided when your details have been verified

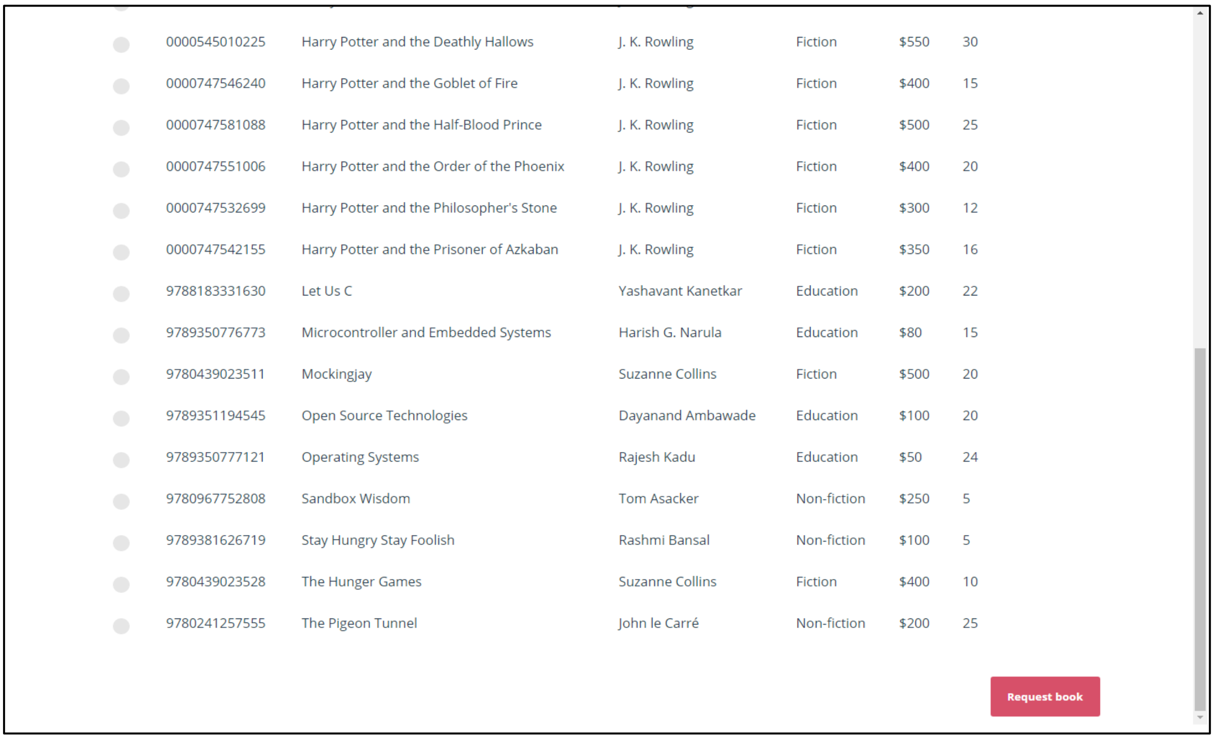
Fig: member registration3



Available books

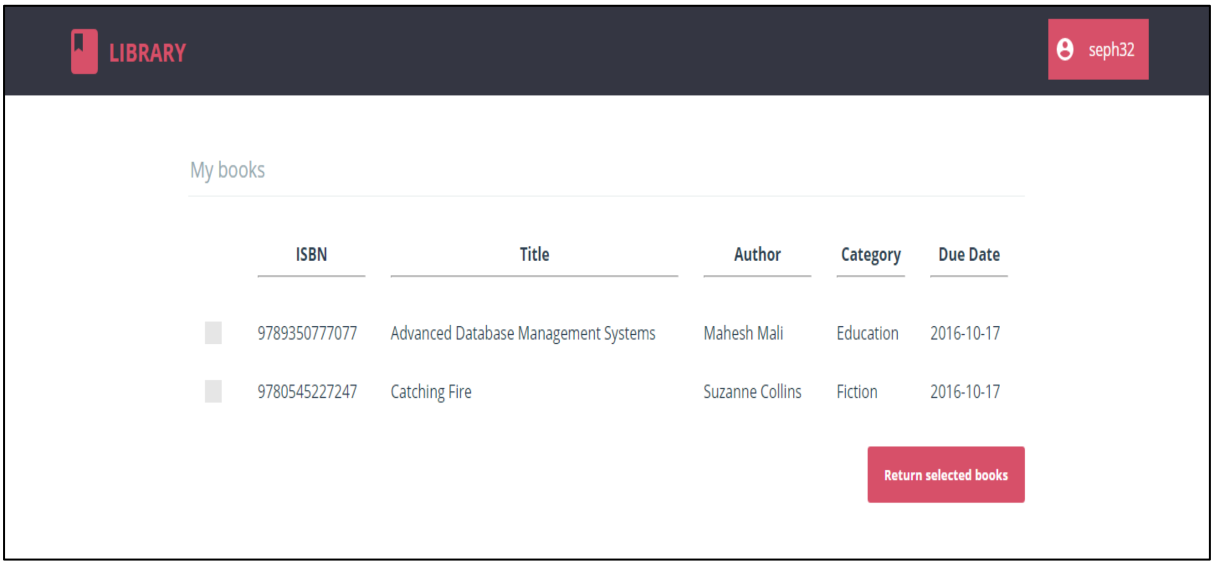
	ISBN	Title	Author	Category	Price	Copies available
○	0000553108034	A Clash of Kings	George R. R. Martin	Fiction	$500	10
○	9780553801477	A Dance with Dragons	George R. R. Martin	Fiction	$600	30
○	0000553801503	A Feast for Crows	George R. R. Martin	Fiction	$600	20
○	0000553103547	A Game of Thrones	George R. R. Martin	Fiction	$500	10
○	0000553106635	A Storm of Swords	George R. R. Martin	Fiction	$550	15
○	9789350777077	Advanced Database Management Systems	Mahesh Mali	Education	$60	29
○	9781501141515	Born to Run	Bruce Springsteen	Non-fiction	$250	20
○	9780545227247	Catching Fire	Suzanne Collins	Fiction	$400	14
○	9789350776667	Computer Graphics and Virtual Reality	Sanjesh S. Pawale	Education	$100	30
○	9780066620992	Good to Great	Jim Collins	Non-fiction	$300	10
○	0000747538492	Harry Potter and the Chamber of Secrets	J. K. Rowling	Fiction	$300	10
○	0000545010225	Harry Potter and the Deathly Hallows	J. K. Rowling	Fiction	$550	30

Fig: books1



○	0000545010225	Harry Potter and the Deathly Hallows	J. K. Rowling	Fiction	$550	30
○	0000747546240	Harry Potter and the Goblet of Fire	J. K. Rowling	Fiction	$400	15
○	0000747581088	Harry Potter and the Half-Blood Prince	J. K. Rowling	Fiction	$500	25
○	0000747551006	Harry Potter and the Order of the Phoenix	J. K. Rowling	Fiction	$400	20
○	0000747532699	Harry Potter and the Philosopher's Stone	J. K. Rowling	Fiction	$300	12
○	0000747542155	Harry Potter and the Prisoner of Azkaban	J. K. Rowling	Fiction	$350	16
○	9788183331630	Let Us C	Yashavant Kanetkar	Education	$200	22
○	9789350776773	Microcontroller and Embedded Systems	Harish G. Narula	Education	$80	15
○	9780439023511	Mockingjay	Suzanne Collins	Fiction	$500	20
○	9789351194545	Open Source Technologies	Dayanand Ambawade	Education	$100	20
○	9789350777121	Operating Systems	Rajesh Kadu	Education	$50	24
○	9780967752808	Sandbox Wisdom	Tom Asacker	Non-fiction	$250	5
○	9789381626719	Stay Hungry Stay Foolish	Rashmi Bansal	Non-fiction	$100	5
○	9780439023528	The Hunger Games	Suzanne Collins	Fiction	$400	10
○	9780241257555	The Pigeon Tunnel	John le Carré	Non-fiction	$200	25

Fig: books2



My books

	ISBN	Title	Author	Category	Due Date
□	9789350777077	Advanced Database Management Systems	Mahesh Mali	Education	2016-10-17
□	9780545227247	Catching Fire	Suzanne Collins	Fiction	2016-10-17

Fig: my books

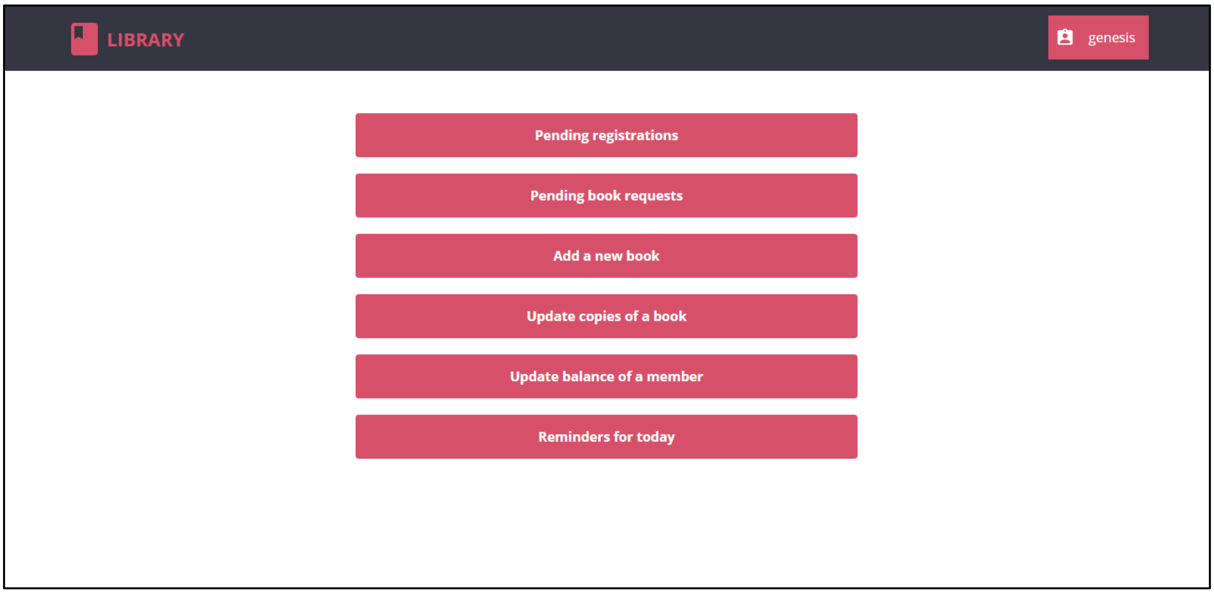
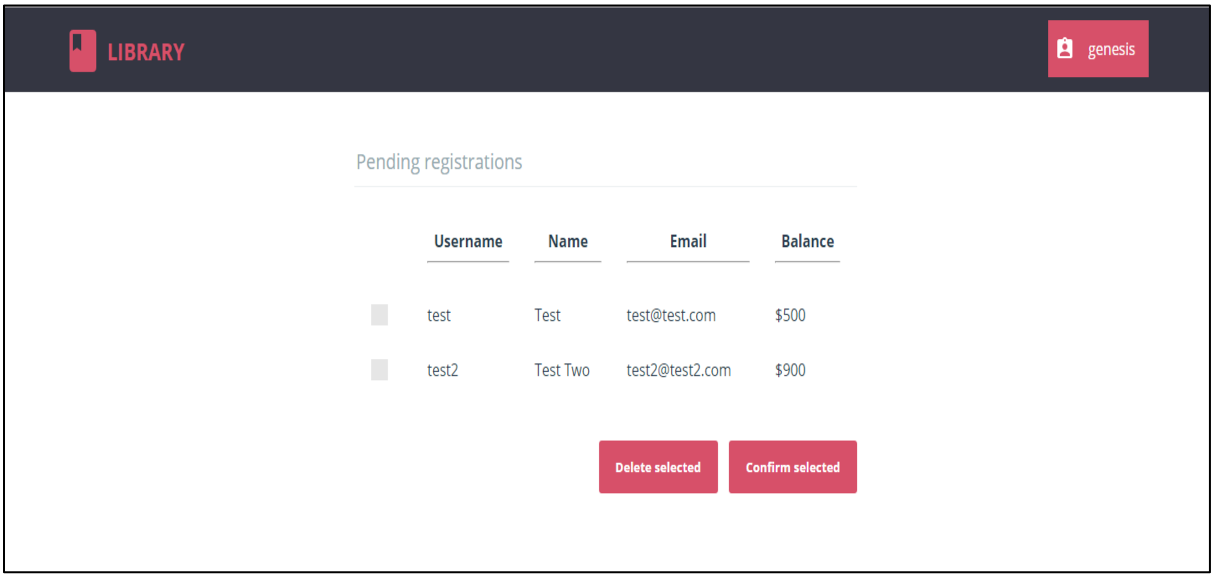


Fig: librarian home



Pending registrations

	Username	Name	Email	Balance
□	test	Test	test@test.com	$500
□	test2	Test Two	test2@test2.com	$900

Fig: pending registrations

DECLARATION

We students of 5th semester BE, Computer Science and Engineering department , JSS Academy of Technical Education Banglore -Engineering College hereby declare that internship project work entitled "**College Internship System**" has been carried out by us at Prinston Smart Engineers, Bengaluru and submitted in partial fulfilment of the course requirement for the award of the degree of **Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum,** during the academic year 2022-2023

We also declare that, to the best of our knowledge and belief, the work reported here does not from the part of dissertation on the basis of which a degree or award was conferred on an earlier occasion on this by any other student.

Date: 15/11/2022

Place: Bangalore

BABITHA RANI B(1JS20CS040)
BHAGYASHRI SHETTY H(1JS20CS043)