

Digital Library Project

Web Engineering (Lab)

Computer Science (Session 2019-23)

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Date of Submission:

24 May 2022

Project

Digital Library

Designing front and backend of a website of **PIET** library to ensure the ease for students and researchers to find the relevant books.

Introduction:

This Digital Library is an online version of the **PIET** Library. All the book's details can be fetched by the visitor, based on specified Title, Genre, Author, or Department.

Data Collection Journey:

It was the month of December; 2019. I was assigned a project of collecting data from an organization and creating a normalized database from the gathered data. I went to the **Library** of **PIET** University and gathered requirements in the form of SRS(Software Requirement Specification).

Then I collected all the possible data(about books) that can be used on a website(to display complete book details). Later I added demo data to the table just to test the functionality and layout of my website.

Database Name: digital library

Table Name: books

Options		Book ID	Book Title	Book Author	Book Edition	Genre	Department
<input type="checkbox"/>	Edit Copy Delete	1	Fundamentals of Programming	J K Rowling	1	Novel	Computer Science
<input type="checkbox"/>	Edit Copy Delete	2	Basics of Networking	Leo Tolstoy	1	History	Electrical Eng
<input type="checkbox"/>	Edit Copy Delete	3	Digital Logic and Design	Dan Brown	1	Non Fiction	Civil Eng
<input type="checkbox"/>	Edit Copy Delete	4	Linear Algebra	Charles Dickens	1	Rare	Mechanical Eng
<input type="checkbox"/>	Edit Copy Delete	5	introduction to Electronics	Stephen King	1	Novel	Computer Science
<input type="checkbox"/>	Edit Copy Delete	6	Harry Potter	J K Rowling	2	Fiction	NULL
<input type="checkbox"/>	Edit Copy Delete	7	Tales of two cities	Charles Dickens	2	Novel	Electrical Eng
<input type="checkbox"/>	Edit Copy Delete	8	Operating Systems	Leo Tolstoy	2	History	Civil Eng
<input type="checkbox"/>	Edit Copy Delete	9	Communication Skills	Stephen King	2	History	Civil Eng
<input type="checkbox"/>	Edit Copy Delete	10	Fifty Shades of Grey	Dan Brown	2	Non Fiction	Computer Science
<input type="checkbox"/>	Edit Copy Delete	11	Professionals Practices	JK Rowling	3	Fiction	Electrical Eng
<input type="checkbox"/>	Edit Copy Delete	12	Rich dad poor dad	Charles Dickens	3	Rare	Civil Eng
<input type="checkbox"/>	Edit Copy Delete	13	Pakistan Studies	Masab Khan	3	History	Mechanical Eng
<input type="checkbox"/>	Edit Copy Delete	14	Data Science	Leo Tolstoy	3	Non Fiction	Computer Science
<input type="checkbox"/>	Edit Copy Delete	15	Think and Grow rich	Stephen King	3	Fiction	Electrical Eng
<input type="checkbox"/>	Edit Copy Delete	16	Dealing with Depression	J K Rowling	4	Rare	Computer Science
<input type="checkbox"/>	Edit Copy Delete	17	Principle of Mechanics	Dan Brown	3	Non Fiction	Mechanical Eng

Coding and Display:

Home Page Source Code (File Name: Digital Library.html)

```
<!DOCTYPE html>
<html lang="en">
<head style="max-width: 100%;">
    <link rel="stylesheet"
        href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
    <meta name="viewport" content="width=device-width", initial-scale=1.0">
    <title>Digital Library</title>
    <style>
        body {
            margin: 0;
            font-family: Arial, Helvetica, sans-serif;
        }
        #header {
            padding-left:21%;
            overflow: hidden;
            background-color: black;
            margin-left: 30px;
        }
        #image{
            width: 90px;
```

```
max-width: 100%;  
position: absolute;  
left: 20px;  
}  
  
#header a {  
    float: left;  
    color: #f2f2f2;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
    font-size: 20px;  
    margin-left: 39px;  
}  
  
#header a:hover {  
    background-color: rgba(0, 0, 0, 0.25);  
    color: white;  
    font-size: 20px;  
    font-weight: bolder;  
    font-style: italic;  
}  
  
#header a.active {  
    background-color: #053d05;  
    color: white;  
    font-size: 20px;  
}  
  
#genre{  
    background-image: url("background img.jpg");  
    margin-top: 480px;  
    padding: 300px;  
}  
  
#genre_button1 {  
    border-style: solid;  
    border-color: green;  
    padding: 16px 32px;  
    text-align: center;  
    text-decoration: none;  
    display: inline-block;  
    font-size: 16px;  
    margin: 4px 2px;  
    transition-duration: 0.2s;  
    cursor: pointer;  
    background-color: transparent;  
    color: white;  
}  
  
#genre_button1:hover{  
    background-color: rgba(0, 128, 0, 0.35);  
    font-weight: bolder;
```

```
    max-width: 100%;  
}  
#genre_button2 {  
    border-style: solid;  
    border-color:red;  
    padding: 16px 32px;  
    text-align: center;  
    text-decoration: none;  
    display: inline-block;  
    font-size: 16px;  
    margin: 4px 2px;  
    transition-duration: 0.2s;  
    cursor: pointer;  
    background-color: transparent;  
    color: white;  
    position: relative;  
    bottom:140px;  
    left:469px;  
}  
#genre_button2:hover{  
    background-color: rgba(128, 0, 15, 0.35);  
    font-weight: bolder;  
}  
#genre_button3 {  
    border-style: solid;  
    border-color:blue;  
    padding: 16px 32px;  
    text-align: center;  
    text-decoration: none;  
    display: inline-block;  
    font-size: 16px;  
    margin: 4px 2px;  
    transition-duration: 0.2s;  
    cursor: pointer;  
    background-color: transparent;  
    color: white;  
    position: relative;  
    bottom:20px;  
    left:325px;  
}  
#genre_button3:hover{  
    background-color: rgba(0, 47, 128, 0.47);  
    font-weight: bolder;  
}  
#genre_button4 {  
    border-style: solid;  
    border-color:deeppink;  
    padding: 16px 32px;  
    text-align: center;
```

```
text-decoration: none;
display: inline-block;
font-size: 16px;
margin: 4px 2px;
transition-duration: 0.2s;
cursor: pointer;
background-color: transparent;
color: white;
}
#genre_button4:hover{
background-color: rgba(255, 105, 180, 0.43);
border-style: solid;
color: white;
font-weight: bolder;
}
#genre_button5 {
border-style: solid;
border-color:yellowgreen;
padding: 16px 32px;
text-align: center;
text-decoration: none;
display: inline-block;
font-size: 16px;
margin: 4px 2px;
transition-duration: 0.2s;
cursor: pointer;
background-color: transparent;
color: white;
}
#genre_button5:hover{
background-color: rgba(255, 215, 0, 0.34);
border-style: solid;
color:white;
font-weight: bolder;
}
#Author{
background-image:url("bg img 2.1.jpg");
max-width: 100%;
padding: 300px;
}
#author_button1 {
border-style: solid;
border-color:green;
padding: 16px 32px;
text-align: center;
text-decoration: none;
display: inline-block;
font-size: 16px;
margin: 4px 2px;
```

```
    transition-duration: 0.2s;
    cursor: pointer;
    background-color: transparent;
    color: white;
}
#author_button1:hover{
    background-color: rgba(0, 128, 0, 0.35);
    font-weight: bolder;
}
#author_button2 {
    border-style: solid;
    border-color:red;
    padding: 16px 32px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
    margin: 4px 2px;
    transition-duration: 0.2s;
    cursor: pointer;
    background-color: transparent;
    color: white;
    position: relative;
    bottom:-40px;
    left:390px;
}
#author_button2:hover{
    background-color: rgba(128, 0, 15, 0.35);
    font-weight: bolder;
}
#author_button3 {
    border-style: solid;
    border-color:blue;
    padding: 16px 32px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
    margin: 4px 2px;
    transition-duration: 0.2s;
    cursor: pointer;
    background-color: transparent;
    color: white;
    position: relative;
    bottom:-40px;
    left:500px;
}
#author_button3:hover{
    background-color: rgba(0, 47, 128, 0.47);
```

```
        font-weight: bolder;
    }
#author_button4 {
    border-style: solid;
    border-color: deeppink;
    padding: 16px 32px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
    margin: 4px 2px;
    transition-duration: 0.2s;
    cursor: pointer;
    background-color: transparent;
    color: white;
}
#author_button4:hover{
    background-color: rgba(255, 105, 180, 0.43);
    border-style: solid;
    color: white;
    font-weight: bolder;
}
#author_button5 {
    border-style: solid;
    border-color: yellowgreen;
    padding: 16px 32px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
    margin: 4px 2px;
    transition-duration: 0.2s;
    cursor: pointer;
    background-color: transparent;
    color: white;
}
#author_button5:hover{
    background-color: rgba(255, 215, 0, 0.34);
    border-style: solid;
    color: white;
    font-weight: bolder;
}
#department{
    background-image: url("bg img 3.jpg");
    max-width: 100%;
    padding: 300px;
}
#department_button1 {
    border-style: solid;
```

```
border-color:green;
padding: 16px 32px;
text-align: center;
text-decoration: none;
display: inline-block;
font-size: 16px;
margin: 4px 2px;
transition-duration: 0.2s;
cursor: pointer;
background-color: transparent;
color: white;
}
#department_button1:hover{
background-color: rgba(0, 128, 0, 0.35);
font-weight: bolder;
}
#department_button3 {
border-style: solid;
border-color:blue;
padding: 16px 32px;
text-align: center;
text-decoration: none;
display: inline-block;
font-size: 16px;
margin: 4px 2px;
transition-duration: 0.2s;
cursor: pointer;
background-color: transparent;
color: white;
position: relative;
bottom:-40px;
left:300px;
}
#department_button3:hover{
background-color: rgba(0, 47, 128, 0.47);
font-weight: bolder;
}
#department_button4 {
border-style: solid;
border-color:deeppink;
padding: 16px 32px;
text-align: center;
text-decoration: none;
display: inline-block;
font-size: 16px;
margin: 4px 2px;
transition-duration: 0.2s;
cursor: pointer;
background-color: transparent;
```

```
        color: white;
    }
#department_button4:hover{
    background-color: rgba(255, 105, 180, 0.43);
    border-style: solid;
    color: white;
    font-weight: bolder;
}
#department_button5 {
    border-style: solid;
    border-color: yellowgreen;
    padding: 16px 32px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
    margin: 4px 2px;
    transition-duration: 0.2s;
    cursor: pointer;
    background-color: transparent;
    color: white;
    float: right;
}
#department_button5:hover{
    background-color: rgba(255, 215, 0, 0.34);
    border-style: solid;
    color: white;
    font-weight: bolder;
}
#Officalwebsite{
    border-style: solid;
    border-color: yellowgreen;
    padding: 16px 32px;
    text-align: center;
    text-decoration: none;
    display: inline-block;
    font-size: 16px;
    margin: 4px 2px;
    transition-duration: 0.2s;
    cursor: pointer;
    background-color: transparent;
    color: white;
    float: right;
}
#Officalwebsite:hover{
    background-color: rgba(255, 215, 0, 0.34);
    border-style: solid;
    color: white;
    font-weight: bolder;
```

```

        }
    </style>
</head>
<body style="background-image: url('bg img top.jpg');background-repeat: no-repeat">
<div>
    <h1 style="position: absolute; top: 5%; left: 20px; width: 100%; text-align: center;color:white;">Pakistan Institute of Engineering and Technology</h1>
    <h3 style="position: absolute; top: 20%; left: -10px; width: 100%; text-align: center;color:white;">WELCOME TO <br />THE DIGITAL LIBRARY OF <br/>PAKISTAN INSTITUTE OF ENGINEERING AND TECHNOLOGY</h3>
    <button id="Officalwebsite" style="position: absolute;top:40%;left:860px;"><a href="Digital%20Library%20All%20available%20Books.php" target="_blank" style="color:white;text-decoration: none;">Search Books</a></button>
</div>
<div id="header">
    <a class="active" style="font-size: 140%;" href="Digital Library.html" target="_blank"><i class="fa fa-home" aria-hidden="true"></i></a>
    <a href="Digital Library All available Books.php" target="_blank">All <i class="fa fa-book" aria-hidden="true"></i></a>
    <a href="#genre">Genre</a>
    <a href="#department">Departments</a>
    <a href="#Author">Authors</a>
    <a href="#footer">About Us</a>
    
</div>
<div id="genre">
    <h1 style="text-align: center;position: relative;bottom: 300px; left: -10px; color:white;">Genre</h1>
    <button id="genre_button1" style="position: relative;bottom:250px;left:590px;"><a href="Digital Library Genre (Novel).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Novel</a></button>
    <button id="genre_button2"><a href="Digital Library Genre (History).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">History</a></button>
    <button id="genre_button3"><a href="Digital Library Genre (Non Fiction).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Non Fiction</a></button>
    <button style="text-align: center;position: relative;top: 100px; left:185px" id="genre_button4"><a href="Digital Library Genre (Fiction).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Fiction</a></button>
    <button style="text-align: center;position: relative;top: 230px; left:65px" id="genre_button5"><a href="Digital Library Genre (Rare).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Rare</a></button>
</div>
<div id="Author">
    <h1 style="text-align: center;position: relative;bottom: 200px; left: -10px; color:white;">Authors</h1>

```

```

        <button id="author_button1" style="position: relative;bottom:94px;left:555px;"><a href="Digital Library Author (J K Rowling).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">J.K Rowling</a></button>
        <button id="author_button2"><a href="Digital Library Author (Leo Tolstoy).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Leo Tolstoy</a></button>
        <button id="author_button3"><a href="Digital Library Author (Stephen King).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Stephen King</a></button>
        <button style="text-align: center;position: relative;top: 200px; left:55px" id="author_button4"><a href="Digital Library Author (Dan Brown).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Dan Brown</a></button>
        <button style="text-align: center;position: relative;top: 39px; left:-440px" id="author_button5"><a href="Digital Library Author (Charles Dickens).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Charles Dickens</a></button>
    </div>
    <div id="department" style="padding-left:16px">
        <h1 style="text-align: center;position: relative;bottom: -120px; left: 120px; color:white;">Department</h1>
        <button id="department_button1" style="position: relative;bottom:94px;left:819px;"><a href="Digital%20Library%20Dep(Computer%20Science).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Computer Science</a></button>
        <button id="department_button3"><a href="Digital Library Dep(Electrical Eng).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Electrical Eng</a></button>
        <button style="text-align: center;position: relative;top: 200px; left:460px" id="department_button4"><a href="Digital Library Dep(Civil Eng).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Civil Eng</a></button>
        <button style="text-align: center;position: relative;top: 40px; left:-266px" id="department_button5"><a href="Digital Library Dep(Mechanical Eng).php" target="_blank" style="max-width: 100%;text-decoration: none;color:white;">Mechanical Eng</a></button>
    </div>
    <footer id="footer" style="padding:30px;margin-left:10px;background-color:black;color:white;">
        <i class="fa fa-university" aria-hidden="true"></i>
        <p style="display: inline">Southern Bypass Road, Multan (1.9 KM from Khanewal Road</p>
        &nbsp &nbsp &nbsp &nbsp &nbsp &nbsp;
        <i class="fa fa-envelope" aria-hidden="true"></i>
        <p style="display: inline">info@piet.edu.pk</p>
        &nbsp &nbsp &nbsp &nbsp &nbsp &nbsp &nbsp;
        <i class="fa fa-phone" aria-hidden="true"></i>
        <p style="display: inline">0616353303</p>
        &nbsp &nbsp &nbsp &nbsp &nbsp &nbsp &nbsp;
        <i class="fa fa-globe" aria-hidden="true"></i>
        <p style="display: inline"><a href="https://piet.edu.pk" target="_blank" style="text-decoration: none; color:white;">www.piet.edu.pk</a></p>
        &nbsp &nbsp &nbsp &nbsp &nbsp &nbsp;
        <i class="fa fa-user-secret" aria-hidden="true"></i>

```

```
<p style="display: inline">Developer:Musab Bin Usman (2kx9 cs 19)</p>
</footer>
</body>
</html>
```

Home Page Display (File Name: Digital Library.html)

The image displays three screenshots of a digital library website, likely named "Digital Library.html".

Top Screenshot: Shows the homepage of the digital library. The background is a photograph of a large, traditional library with tall wooden bookshelves filled with books. At the top, there is a navigation bar with icons for home, all, genre, departments, authors, and about us. The center of the page has the text "Pakistan Institute of Engineering and Technology" and "WELCOME TO THE DIGITAL LIBRARY OF PAKISTAN INSTITUTE OF ENGINEERING AND TECHNOLOGY". Below this is a "Search Books" input field.

Middle Screenshot: Shows a genre selection interface. The background is a photograph of a library with many bookshelves. Several genre categories are displayed in colored boxes: "Novel" (green), "History" (red), "Non Fiction" (blue), "Fiction" (pink), and "Rare" (green).

Bottom Screenshot: Shows an authors selection interface. The background is a photograph of a library with bookshelves and a chandelier. Several author names are displayed in colored boxes: "Charles Dickens" (green), "J K Rowling" (green), "Leo Tolstoy" (red), "Stephen King" (blue), and "Dan Brown" (pink).



All Books Page Source Code (File Name: Digital Library All Available Books.php)

```
<!doctype html>
<html>
<head>
    <link rel="stylesheet"
        href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
    <style>
        #header {
            padding-left:29%;
            overflow: hidden;
            background-color: black;
            margin-left:-1.50%;
            margin-right:-1%;
        }
        #image{
            width: 90px;
            max-width: 100%;
            position:absolute;
            left:20px;
        }
        #header a {
            float: left;
            color: white;
            text-align: center;
            padding: 14px 16px;
            text-decoration: none;
            font-size: 20px;
            margin-left: 39px;
        }
    </style>

```

```
#header a:hover {
    background-color: rgba(0, 0, 0, 0.25);
    color: white;
    font-size: 20px;
    font-weight: bolder;
    font-style:italic;
}

#header a.active {
    background-color: green;
    color: white;
    font-size: 20px;
}
table {
    font-family: arial, sans-serif;
    border-collapse: collapse;
    width: 100%;
    margin-bottom:5%;
}
td, th {
    border: 1px solid #020000;
    text-align: left;
    padding: 8px;
}
td{
    background-color:maroon;
    color:white;
}
th{
    background-color:green;
    color:white;
}
td:hover {
    background-color: lightcoral;
    color: black;
}
th:hover{
    background-color:lightgreen;
    color:black;
}
tr:nth-child(even) {
    background-color: #dddddd;
}
img{
    width: 90px;
    max-width: 100%;
    position:absolute;
    left:20px;
```

```

        }
    th{
        color:white;
    }
    h1{
        text-align: center;
        color:white;
        border-style:solid;
        border-color:red;
        background-color: green;
    }

```

</style>

</head>

<body style="background-image:url('php background.jpg');background-position: center;">

<div id="header">

 <i class="fa fa-home" aria-hidden="true"></i>

 All <i class="fa fa-book" aria-hidden="true"></i>

 <a>Genre

 <a>Departments

 <a>Authors

 <a>About Us

 <form method="post" action="Digital%20Library%20All%20available%20Books.php" style="position:absolute;bottom:50px;right:10px;top:13px">

 <input type="text" placeholder="Search.." name="search">

 <button name='submit' type="submit"><i class="fa fa-search"></i></button>

 </form>

</div>

<?php

```

define("DB_SERVER", "localhost");
define("DB_USER", "root");
define("DB_PASSWORD", "");
define("DB_DATABASE", "digital library");
$connect = mysqli_connect(DB_SERVER , DB_USER, DB_PASSWORD, DB_DATABASE);
$select = "select * from books";
$execute = mysqli_query($connect,$select);
echo "<h1>All Books Available in <br/> <b>Pakistan Institute of Engineering & Technology</b></h1>";
while($rows = mysqli_fetch_assoc($execute)) {
    if(isset($_POST["submit"])){
        $search_term = $_POST['search'];
        if ($rows["Book Title"] == $search_term) {
            echo "<table>
                . "<tr>".
                "<th>" . "Book ID:" . "</th>" .
                "<th>" . "Book Title:" . "</th>" .
                "<th >" . "Book Author:" . "</th>" .

```

```

        "<th>" . "Book Edition:" . "</th>" .
        "<th>" . "Book Genre:" . "</th>" .
        "<th>" . "Book Department:" . "</th>" .
        "</tr>" .
        "<td>" . $rows["Book ID"] . "</td>" .
        "<td>" . $rows["Book Title"] . "</td>" .
        "<td>" . $rows["Book Author"] . "</td>" .
        "<td>" . $rows["Book Edition"] . "</td>" .
        "<td>" . $rows["Genre"] . "</td>" .
        "<td>" . $rows["Department"] . "</td>" .
        "</tr>" .
        "</table>";
    }
}
else{
    echo "<table>" .
        "<tr>" .
        "<th>" . "Book ID:" . "</th>" .
        "<th>" . "Book Title:" . "</th>" .
        "<th>" . "Book Author:" . "</th>" .
        "<th>" . "Book Edition:" . "</th>" .
        "<th>" . "Book Genre:" . "</th>" .
        "<th>" . "Book Department:" . "</th>" .
        "</tr>" .
        "<td>" . $rows["Book ID"] . "</td>" .
        "<td>" . $rows["Book Title"] . "</td>" .
        "<td>" . $rows["Book Author"] . "</td>" .
        "<td>" . $rows["Book Edition"] . "</td>" .
        "<td>" . $rows["Genre"] . "</td>" .
        "<td>" . $rows["Department"] . "</td>" .
        "</tr>" .
        "</table>";
    }
}
?>
</body>
</html>

```

All Books Page Output (File Name: Digital Library All Available Books.php)

All Books Available in
Pakistan Institute of Engineering & Technology

| Book ID: | Book Title: | Book Author: | Book Edition: | Book Genre: | Book Department: |
|----------|-----------------------------|-----------------|---------------|-------------|------------------|
| 1 | Fundamentals of Programming | J K Rowling | 1 | Novel | Computer Science |
| 2 | Basics of Networking | Leo Tolstoy | 1 | History | Electrical Eng |
| 3 | Digital Logic and Design | Dan Brown | 1 | Non Fiction | Civil Eng |
| 4 | Linear Algebra | Charles Dickens | 1 | Rare | Mechanical Eng |

After this page, the source code of all pages are same except (if condition) so uploading only the output of each file

Books by Charles Dickens Output (File Name: Digital Library Author (Charles Dickens).php)

Books By 'Charles Dickens'

| Book ID: | Book Title: | Book Author: | Book Edition: | Book Genre: | Book Department: |
|----------|---------------------|-----------------|---------------|-------------|------------------|
| 4 | Linear Algebra | Charles Dickens | 1 | Rare | Mechanical Eng |
| 7 | Tales of two cities | Charles Dickens | 2 | Novel | Electrical Eng |
| 12 | Rich dad poor dad | Charles Dickens | 3 | Rare | Civil Eng |

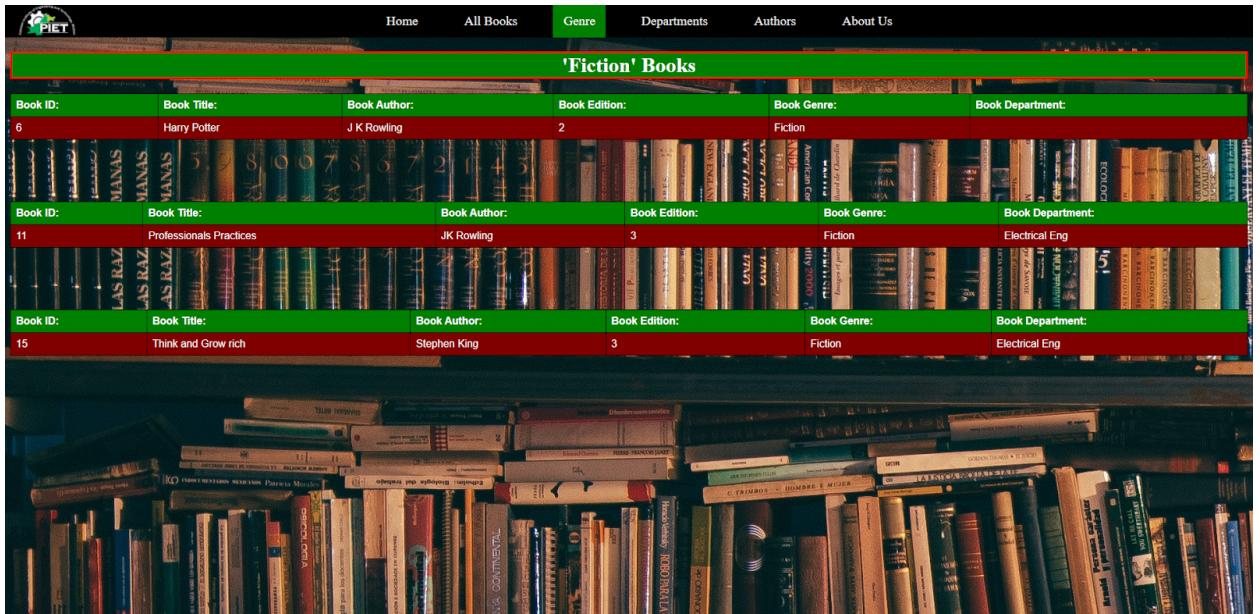
After this page, the output of the author's pages is the same except, for the authors' name, so uploading the output of the Department file.

Civil Department's Books Output (File Name: Digital Library Dep(Civil Eng).php):

| Books for 'Civil Engineering Department' | | | | | |
|--|--------------------------|-----------------|---------------|-------------|------------------|
| Book ID: | Book Title: | Book Author: | Book Edition: | Book Genre: | Book Department: |
| 3 | Digital Logic and Design | Dan Brown | 1 | Non Fiction | Civil Eng |
| 8 | Operating Systems | Leo Tolstoy | 2 | History | Civil Eng |
| 9 | Communication Skills | Stephen King | 2 | History | Civil Eng |
| 12 | Rich dad poor dad | Charles Dickens | 3 | Rare | Civil Eng |

After this page, the output of the department's pages is the same except, for the departments' names, so uploading only the output of the Genre file.

Fiction Books Output (File Name: Digital Library Genre(Fiction).php):



| Book ID: | Book Title: | Book Author: | Book Edition: | Book Genre: | Book Department: |
|----------|-------------------------|--------------|---------------|-------------|------------------|
| 6 | Harry Potter | J K Rowling | 2 | Fiction | |
| 11 | Professionals Practices | JK Rowling | 3 | Fiction | Electrical Eng |
| 15 | Think and Grow rich | Stephen King | 3 | Fiction | Electrical Eng |