

Q1. A Library maintains a website of its members and books issued to those members. The website displays the list of the members, number of books issued to them and contact number of the members. In addition, it also displays a form for the members who want to get a specific book issued. Design and create four web pages for the Library namely, Home, Member_List, Book_Registration Form and Feedback, having the following features:

For consistency, every webpage of the website should consist of three basic divisions –

Header - This division should be same for all the four web pages and should display name and logo of the Library. This division should be in different background colour.

Menu - This division should be same for every web page. It should contain links to all the web pages, viz. Home, Member_List, Book_Registration Form and Feedback.

Content - This division should display the basic information as given below. The web pages that you are designing should differ in this Division only.

The Content division of the different pages should be as under:

- Home page should include a message from the Librarian, welcoming all the members to the website.
- Member_List page should display information about all the members – name of member, number of books issued to them and contact number of the members. You should use a table to display this information.
- Book_Registration page should contain a form, which should have fields – member name, phone number of the member, the title of the book that s/he wants to get issued, and a Submit button. You should write JavaScript code to verify that all the fields are filled with some data. This code should be run when the Submit button is pressed.
- Feedback page should display another form that has three input fields – Name of member, subject of the feedback and a text area for giving the feedback. In addition, this form should have a Submit button.

Ans.

Home Page

```
<html>
<head>
<title>Home</title>
<link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
<table width="100%" bgcolor="#070fee">
<tr height="150">
<td>
<h1 class="padding">Online Library Management</h1>
</td>
<td align="left" width="300">
```

www.ignousite.com

 height="100" width="250">

</td>

</tr>

</table>

<table width="100%">

<tr>

<td width="250">

<div class="vertical-menu">

Home

Member List

Registration Form

Feedback

</div>

</td>

<td>

<div style="overflow: auto; height: 500; margin-left:10px;">

<center>

<u>

<h2>Online Library Management</h2>

</u>

</center>

<p class="headercss"><h1>Welcome</h1></p>

<p class="textcss"><h2>All members are Welcome to the Online Library Management Portal. </h2></p>

</table>

<table width="100%" bgcolor="#070fee ">

<tr height="50">

<td>

<center>

<p class="footer">Ⓒ Online Library Management All Rights Reserved</p>

</center>

</td>

</tr>

</table>

</body>

</html>

Member_list.html

<html>

<head>

<title>Member List</title>

<link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

<table width="100%" bgcolor="#2ECC71 ">



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<tr height="150">

<td>

<h1 class="padding">Online Library Management</h1>

</td>

<td align="left" width="300">

</td>

</tr>

</table>

<table width="100%">

<tr>

<td width="250">

<div class="vertical-menu">

Home

Member List

Registration Form

Feedback

</div>

</td>

<td>

<u>

<h2>

<center>Member List</center>

</h2>

</u>

<center>

<table width="90%" border="1" cellpadding="10" class="textcss">

<tr>

<th>Name of Member</th>

<th>No. of Books Issued</th>

<th>Mobile No.</th>

<tr>

<tr>

<td width="33%" valign="top">Anil Kumar</td>

<td width="33%" valign="top">6</td>

<td width="34%">8891547583</td>

</tr>

<tr>

<td width="33%" valign="top">Ajay Singh</td>

<td width="33%" valign="top">5</td>

<td width="34%">9475215486</td>

</tr>

<tr>

<td width="33%" valign="top">Babali</td>

<td width="33%" valign="top">2</td>



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```
<td width="34%">6854745932</td>
</tr>
<tr>
<td width="33%" valign="top">Chetan</td>
<td width="33%" valign="top">7</td>
<td width="34%">9857145458</td>
</tr>
<tr>
<td width="33%" valign="top">Dinesh</td>
<td width="33%" valign="top">3</td>
<td width="34%">6574589633</td>
</tr>
<tr>
<td width="33%" valign="top">Ramesh</td>
<td width="33%" valign="top">2</td>
<td width="34%">9587423656</td>
</tr>
<tr>
<td width="33%" valign="top">Sunil Poonia</td>
<td width="33%" valign="top">4</td>
<td width="34%">9568741258</td>
</tr>
</table>
</center>
</td>
</tr>
</table>
<table width="100%" bgcolor="#2ECC71 ">
<tr height="50">
<td>
<center>
<p class="footer">&#9400 Online Library Management All Rights Reserved</p>
</center>
</td>
</tr>
</table>
</body>
</html>
```

Registration_form.html

```
<html>
<head>
<title>Registration</title>
<link rel="stylesheet" type="text/css" href="style.css">
<script type="text/javascript">
```


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```
function PageField() {
document.getElementById("blankLabel").style.display = "none";
}
function BlankField() {
var mname, phone, booktitle;
var notblank = true;
mname = document.getElementById("mname").value;
phone = document.getElementById("phone").value;
booktitle = document.getElementById("booktitle").value;
if (mname.length > 0 && phone.length > 0 && booktitle.length > 0)
document.getElementById("blankLabel").style.display = "none";
if (mname.length == 0 || phone.length == 0 || booktitle.length > 0) {
document.getElementById("blankLabel").innerHTML = "Blank field not allowed";
document.getElementById("blankLabel").style.display = "block";
notblank = false;
}
return notblank;
}
```



```
</script>
</head>
<body onload="PageField()">
<table width="100%" bgcolor="#2ECC71">
<tr height="150">
<td>
<h1 class="padding">Online Library Management</h1>
</td>
<td align="left" width="300">

</td>
</tr>
</table>
<table width="100%">
<tr>
<td width="250">
<div class="vertical-menu">
<a href="home.html">Home</a>
<a href="member_list.html">Member List</a>
<a href="registration_form.html" class="active">Registration Form</a>
<a href="feedback.html">Feedback</a>
</div>
</td>
<td>
<u>
<h2>
<center>Registration</center>
```

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```
</h2>
</u>
<center>
<form name="Display" method="post" onsubmit="return BlankField()">
<p><span class="textcss" style="margin-right:10px;">Member Name</span>
<input type="text" id="mname" name="mname" size="25" maxlength="15"
onkeypress="return Number(event);">
</p>
<p><span class="textcss" style="margin-right:10px;">Phone No.</span>
<input type="text" id="phone" name="phone" size="25" maxlength="15"
onkeypress="return Number(event);">
</p>
<p><span class="textcss" style="margin-right:10px;">Title of Book</span>
<input type="text" id="booktitle" name="booktitle" size="25" maxlength="15"
onkeypress="return Number(event);">
</p>
<p class="textcss"><b>
<font color="red"><label id="blankLabel"></label></font>
</b></p>
<p><input type="submit" style='width:100' value="Register"></p>
</form>
</center>
</td>
</tr>
</table>
<table width="100%" bgcolor="#2ECC71 ">
<tr height="50">
<td>
<center>
<p class="footer">&#9400 Online Library Management All Rights Reserved</p>
</center>
</td>
</tr>
</table>
</body>
</html>
```



Feedback.html

```
<html>
<head>
<title>Feedback</title>
<link rel="stylesheet" type="text/css" href="style.css">
<script type="text/javascript">
function PageField() {
document.getElementById("blankLabel").style.display = "none";
}
```


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```
function BlankField() {
var mname, subject, feedback;
var notblank = true;
mname = document.getElementById("mname").value;
subject = document.getElementById("subject").value;
feedback = document.getElementById("feedback").value;
if (mname.length > 0 && subject.length > 0 && feedback.length > 0)
document.getElementById("blankLabel").style.display = "none";
if (mname.length == 0 || subject.length == 0 || feedback.length > 0) {
document.getElementById("blankLabel").innerHTML = "Blank field not allowed";
document.getElementById("blankLabel").style.display = "block";
notblank = false;
}
return notblank;
}
```

</script>

</head>

<body onload="PageField()">

<table width="100%" bgcolor="#2ECC71">

<tr height="150">

<td>

<h1 class="padding">Online Library Management</h1>

</td>

<td align="left" width="300">

</td>

</tr>

</table>

<table width="100%">

<tr>

<td width="250">

<div class="vertical-menu">

Home

Member List

Registration Form

Feedback

</div>

</td>

<td>

<u>

<h2>

<center>Feedback</center>

</h2>

</u>

<center>

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```
<form name="Display" method="post" onsubmit="return BlankField()">
<p><span class="textcss" style="margin-right:10px;">Member Name</span>
<input type="text" id="mname" name="mname" size="25" maxlength="15"
onkeypress="return Number(event);">
</p>
<p><span class="textcss" style="margin-right:10px;">Subject</span>
<input type="text" id="subject" name="subject" size="25" maxlength="15"
onkeypress="return Number(event);">
</p>
<p>
<span class="textcss" style="margin-right:10px;">Feedback</span>
<textarea id="feedback" name="feedback">Enter text here...</textarea>
</p>
</p>
<p class="textcss"><b>
<font color="red"><label id="blankLabel"></label></font>
</b></p>
<p><input type="submit" style='width:100' value="Register"></p>
</form>
</center>
</td>
</tr>
</table>
<table width="100%" bgcolor="#2ECC71 ">
<tr height="50">
<td>
<center>
<p class="footer">&#9400 Online Library Management All Rights Reserved</p>
</center>
</td>
</tr>
</table>
</body>
</html>
```

style.css

```
h1 { font-family: Cambria; }
h2 { font-family: Cambria; color: #d80321; }
.padding { padding-left: 20px; }
.textcss { font-size: 14pt; font-family: Cambria; }
.headercss { font-size: 16pt; font-family: Cambria; font-weight: bold; color: #660066; }
.footer { font-size: 16pt; font-family: Cambria; font-weight: bold; }
.vertical-menu { height: 500; width: 250px; font-size: 16pt; font-family: Cambria; font-weight: bold; background-color: #FFFFE0; }
.vertical-menu a { background-color: #FFFFE0; color: black; display: block; padding: 12px; text-decoration: none; }
.vertical-menu a: hover { background-color: #D4D4D4; }
```



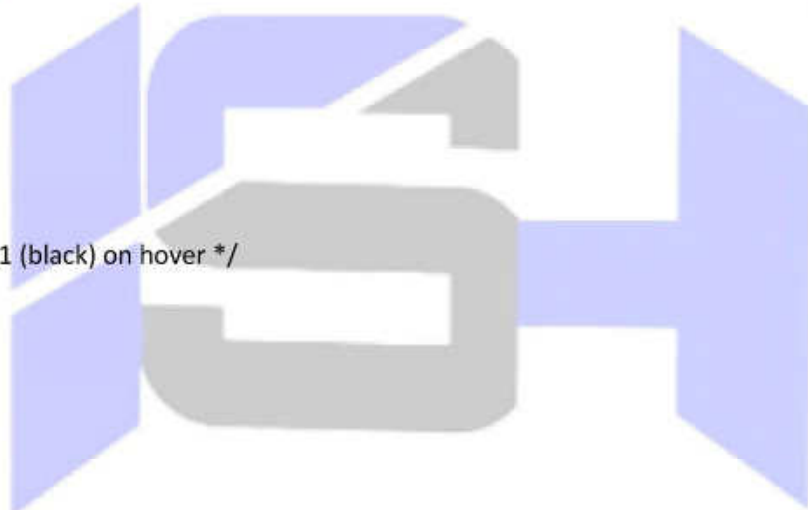

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```
.vertical-menu a.active { background-color: #c481fb; }  
input[type="text"] { height: 40px; font-size:14pt; font-family:Cambria; }  
input[type="password"] { height: 40px; font-size:14pt; font-family:Cambria; }  
input[type="submit"] { height: 40px; font-size:14pt; font-family:Cambria; font-weight: bold; width:350;}  
table, th, td { border-collapse: collapse; }  
ul {  
list-style-type: none;  
margin: 0;  
padding: 0;  
overflow: hidden;  
background-color: #333;  
}  
li {  
float: left;  
}  
li a {  
display: block;  
color: white;  
text-align: center;  
padding: 20px 16px;  
text-decoration: none;  
}  
/* Change the link color to #111 (black) on hover */  
li a:hover {  
background-color: #111;  
}
```



STUDY

Sunil Poonia



Estd : 2014

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Online Library Management



Home

Member List

Registration Form

Feedback

Online Library Management

Welcome

All members are Welcome to the Online Library Management Portal.

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Member List:



Online Library Management



Home

Member List

Registration Form

Feedback

Member List

Name of Member	No. of Book Issued	Mobile No.
Anil Kumar	6	8891547583
Ajay Singh	5	9475215486
Babali	2	6854745932
Chetan	7	9857145458
Dinesh	3	6574589633
Ramesh	2	9587423656
Sunil Poonia	4	9568741258

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Online Library Management



- Home
- Member List
- Registration Form
- Feedback

Registration

Member Name

Phone No.

Title of Book

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Feedback:



Online Library Management



- Home
- Member List
- Registration Form
- Feedback

Feedback

Member Name

Subject

Feedback

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Q2. List the advantages of using CSS. Explain the features of one latest web development software tool.

Ans. List the advantages of using CSS: CSS is defined as a method sheet language that provides web designers control over how an internet site communicates with web browsers including the formatting and display of their HTML documents.

CSS or cascading sheet may be a text-based coding language that specifies the website formats and the way a site communicates with web browsers. The language allows web developers to regulate various style elements and functionalities, like layout, color, fonts, and therefore the formatting and display of HTML documents.

The main goal (as a method sheet language) was to separate document content from document presentation, which incorporates style elements, like color, layout, and fonts. CSS handles the design and feel a part of an internet page. Using CSS, you will control the color of the text, the design of fonts, the spacing between paragraphs, how columns are sized and laid out, etc.

CSS instructs the display of the HTML on how the web site will display at the user's end. Let us have a glance on the benefits and drawbacks of CSS.

Advantages of CSS:

- CSS plays an important role, by using CSS you simply got to specify a repeated style for element once & use it multiple times as because CSS will automatically apply the required styles.
- The main advantage of CSS is that style is applied consistently across variety of sites. One instruction can control several areas which is advantageous.
- Web designers need to use few lines of programming for every page improving site speed.
- Cascading sheet not only simplifies website development, but also simplifies the maintenance as a change of one line of code affects the whole web site and maintenance time.
- It is less complex therefore the effort are significantly reduced.
- It helps to form spontaneous and consistent changes.
- CSS changes are device friendly. With people employing a batch of various range of smart devices to access websites over the web, there's a requirement for responsive web design.
- It has the power for re-positioning. It helps us to determine the changes within the position of web elements who are there on the page.
- These bandwidth savings are substantial figures of insignificant tags that are indistinct from a mess of pages.
- Easy for the user to customize the online page
- It reduces the file transfer size.

The features of one latest web development software tool: We let one latest web development is "Visual Studio Code"

Most front-end developers need a great code editor. That's why we're mentioning one of the top code editors out there, the Visual Studio Code. Visual Studio Code has some very unique features. They are listed as below:

- **Support for multiple programming languages:** Supports multiple programming languages. So earlier, programmers needed Web-Support: a different editor for different languages, but it has built-in multi-language support. This also means it easily detects if there's any fault or cross-language reference, it'll be able to detect it easily.
- **Intelli-Sense:** It can detect if any snippet of code is left incomplete. Also, common variable syntaxes and variable declarations are made automatically. Ex: If a certain variable is being used in the program and the user has forgotten to declare, intelli-sense will declare it for the user.
- **Cross-Platform Support:** Traditionally, editors used to support either Windows or Linux or Mac Systems. But Visual Studio Code is cross-platform. So it can work on all three platforms. Also, the code works on all three platforms; else, the open-source and proprietary software codes used to be different.

- **Extensions and Support:** Usually supports all the programming languages but, if the user/programmer wants to use the programming language which is not supported then, he can download the extension and use it. And performance-wise, the extension doesn't slow down the editor as it runs as a different process.
- **Repository:** With the ever-increasing demand for the code, secure and timely storage is equally important. It is connected with Git or can be connected with any other repository for pulling or saving the instances.
- **Web-Support:** Comes with built-in support for Web applications. So web applications can be built and supported in VSC.
- **Hierarchy Structure:** The code files are located in files and folders. The required code files also have some files, which may be required for other complex projects. These files can be deleted as per convenience.
- **Improving Code:** Some code snippets can be declared a bit differently, which might help the user in the code. This function prompts the user, wherever necessary, to change it to the suggested option.
- **Terminal Support:** Many of the times, the user needs to start from the root of the directory to start with a particular action, in-built terminal or console provides user support to not to switch in-between two screens for the same.
- **Multi-Projects:** Multiple projects containing multiple files/folders can be opened simultaneously. These projects/folders might or might not be related to each other.
- **Git Support:** Resources can be pulled from Git Hub Repo online and vice-versa; saving can be done too. Resource pulling also means cloning the code which is made available on the internet. This code can later be changed and saved.
- **Commenting:** A common feature, but some of the languages do not support it. Commenting on the code helps the user to recall or track according to the sequence he wants.