**1) Design a Home Page for Library Management System**

**HTML Code:** home.html

<html>

<head>

<title>Library Management System</title>

<link rel="stylesheet" href="style\_main.css">

</head>

<body>

<header id="top">

<nav>

<ul>

<li><a href="#home">Home</a></li>

<li><a href="#register">Register</a></li>

<li><a href="#login">Login</a></li>

<li><a href="#contact">Contact</a></li>

</ul>

</nav>

</header>

<section id="home">

<center>

<img src="book.jfif" alt="about library">

<h2>Library Management System</h2>

</div>

</section>

</body>

</html>

**CSS file:** style\_main.css

\*{

padding: 0;

margin: 0;

}

body

{overflow:hidden;

}

header{

background-color:cyan;

height: 45px;

}

header nav ul{

display: flex;

padding-top:10px;

margin-top:0;

margin-left: 50%;

list-style: none;

}

header nav ul li{

padding-left: 10%;

font-size:1.5em;

}

header a{

text-decoration: none;

color: brown;

}

section{

height: 100vh;

border: 1px solid grey;

display: flex;

justify-content: center;

align-items: center;

}

img{

height: 300px;

border-radius: 50%;

border: 12px solid rgb(255, 85, 0);

padding: 10px 10px 20px 20px;

margin: 20px 20px 15px 10px;

}

h2

{

margin: 20px 20px 15px 10px;

font-size:3em;

}

#home {

background-color: pink;

}**2) To Design a Registration Form**

**HTML File:** Register.html

<html>

<head>

<title>Registration Form</title>

<link rel="stylesheet" href=" Registerstyle.css">

</head>

<body>

<div class="container">

<h2>Registration Form</h2>

<form>

<input type="text" name="name" placeholder="Your Name" id="name" required>

<input type="text" name="username" placeholder="User Name" id="username" required>

<input type="password" placeholder="Password" name="pass" id="pass" required>

<input type="password" placeholder="Retype Password" name="repass" id="repass"

required>

<input type="email" placeholder="email" name="email" id="email" required>

<input type="number" placeholder="Phone No" name="pno" id="pno" required>

<input type="date" placeholder="Date of birth" name="dob" id="dob" required>

<input class="btn" type="submit" value="Register">

</form>

</div>

</body>

</html>

**CSS File :** Registerstyle.css

body {

font-family: Arial, sans-serif;

background: grey;

display: flex;

justify-content: center;

padding-top: 50px;

}

.container {

background: white;

padding:20px 40px;

border-radius: 8px;

width: 300px;

}

input{

width: 100%;

margin-bottom: 10px;

padding: 10px;

border: 1px solid #ddd;

border-radius: 4px;

}

.btn {

margin-left:15px;

align:center;

background: #28a745;

border-radius: 4px;

}**3) Login Form**

**HTML Code:** Login.html

<html>

<head>

<title>Login Form</title>

<link rel="stylesheet" href=”Loginstyle.css">

</head>

<body>

<div class="container">

<h2>Login Form</h2>

<form>

<input type="text" name="username" placeholder="User Name" id="username"

required>

<input type="password" placeholder="Password" name="pass" id="pass" required>

<input class="btn" type="submit" value="Login">

</form>

</div>

</body>

</html>

**CSS File:** Loginstyle.css

body {

font-family: Arial, sans-serif;

background: lightblue;

display: flex;

justify-content: center;

padding:150px;

}

.container {

background: white;

padding:20px 40px;

border-radius: 8px;

width: 300px;

}

input{

width: 100%;

margin-bottom: 20px;

padding: 10px;

border: 1px solid #ddd;

border-radius: 4px;

}

.btn {

margin-top:15px;

margin-left:70px;

width:50%;

align:center;

background: orange;

border-radius:7px;

}**4) Adding Contact Details and Footer**

**HTML Code:** Lastpage.html

<html>

<head>

<title>Contact</title>

<link rel="stylesheet" href="Contactstyle.css">

</head>

<body>

<section>

<h1>Contact me</h1>

<ul>

<li>library@gmail.com</li>

<li>9723551290</li>

</ul>

</section>

<footer>

<p>© Copyright 2023 Saveetha School of Engineering</p>

</footer>

</body>

</html>

**CSS File:** Contactstyle.css

\*{

padding: 0;

margin: 0;

}

body

{

overflow:hidden;

}

section{

height: 95%;

border: 1px solid grey;

display: flex;

justify-content: center;align-items: center;

background-color: blanchedalmond;

}

ul{

margin-top: 2%;

font-size: 1.5rem;

padding-top:90px;

}

p{

margin-top: 1%;

font-size: 1rem;

}

footer {

line-height: 5%;

display: flex;

justify-content: center;

font-size: 0.5rem;

}**5) Validating User input using JavaScript at the time of Registration**

**Html Code with Script:** Register\_script.html

<html>

<head>

<title>Registration Form</title>

<link rel="stylesheet" href="Registerstylescript.css">

</head>

<body>

<div class="container">

<h2>Registration Form</h2>

<form id="RegistrationForm">

<input type="text" name="name" placeholder="Your Name" id="name" required>

<input type="text" name="username" placeholder="User Name" id="username" required>

<span class="note" id="une"></span>

<input type="password" placeholder="Password" name="pass" id="pass" required>

<span class="note" id="pe"></span>

<input type="password" placeholder="Retype Password" name="repass" id="repass"

required>

<span class="note" id="rpe"></span>

<input type="email" placeholder="email" name="email" id="email" required>

<span class="note" id="ee"></span>

<input type="number" placeholder="Phone No" name="pno" id="pno" required>

<span class="note" id="pne"></span>

<input type="date" placeholder="Date of birth" name="dob" id="dob" required>

<input class="btn" type="submit" value="Register">

</form>

</div>

<script>

var s=true;

document.getElementById('RegistrationForm').addEventListener('submit', function(e) {

e.preventDefault();

// Get input values

const username = document.getElementById('username').value.trim();

const email = document.getElementById('email').value.trim();

const password = document.getElementById('pass').value;

const confirmPassword = document.getElementById('repass').value;

const phone=document.getElementById('pno').value;

// Username validation

if (username.length < 3) {

s=false;

document.getElementById('une').innerHTML = 'Username must be at least 3 characters.';

}

// Email validation

if (!/^[^\s@]+@[^\s@]+\.[^\s@]+$/.test(email)) {

document.getElementById('ee').innerHTML = 'Invalid email format.';

s=false;

}

// Password validation

if (password.length < 6) {

document.getElementById('pe').innerHTML = 'Password must be at least 6 characters.';

s=false;

}

// Confirm Password match

if (password !== confirmPassword) {

document.getElementById('rpe').innerHTML = 'Passwords do not match.';

s=false;

}

if(!/^[9|8|7|6]([0-9]{9})$/.test(phone))

{

document.getElementById('pne').innerHTML="Phone Number not Exist";

s=false;

}

if (s) {

alert('Form is valid. Submitting...');

}

});

</script>

</body>

</html>

**CSS File:** Registerstylescript.css

body {

font-family: Arial, sans-serif;

background: grey;

display: flex;

justify-content: center;

padding-top: 50px;

}

.container {

background: white;

padding:20px 40px;

border-radius: 8px;

width: 300px;

}

input,span{

width: 100%;

margin-bottom: 10px;

padding: 10px;

border: 1px solid #ddd;

border-radius: 4px;

}

.note

{

color:red;

font-size:14px;

}

.btn {

margin-left:15px;

align:center;

background: #28a745;

border-radius: 4px;

}**6) Registration in Php to MySQL Database**

**Database Name:** library

**Table Name :** user\_regis

**Table Structure:**

name varchar(20)

uname varchar(15)

password varchar(12)

email varchar(25)

phone\_no varchar(10)

dob Date

**HTML Code : Register\_script.html**

<html>

<head>

<title>Registration Form</title>

<link rel="stylesheet" href="Registerstylescript.css">

</head>

<body>

<div class="container">

<h2>Registration Form</h2>

<form id="RegistrationForm" action="Register.php" method="post"

onsubmit="return validate()">

<input type="text" name="name" placeholder="Your Name" id="name" required>

<input type="text" name="username" placeholder="User Name" id="username"

required>

<span class="note" id="une"></span>

<input type="password" placeholder="Password" name="pass" id="pass" required>

<span class="note" id="pe"></span>

<input type="password" placeholder="Retype Password" name="repass"

id="repass" required>

<span class="note" id="rpe"></span>

<input type="email" placeholder="email" name="email" id="email" required>

<span class="note" id="ee"></span>

<input type="number" placeholder="Phone No" name="pno" id="pno" required>

<span class="note" id="pne"></span>

<input type="date" placeholder="Date of birth" name="dob" id="dob" required>

<input class="btn" type="submit" value="Register">

</form>

</div>

<script>

function validate()

{

var s=true;

// Get input values

const username = document.getElementById('username').value.trim();

const email = document.getElementById('email').value.trim();

const password = document.getElementById('pass').value;

const confirmPassword = document.getElementById('repass').value;

const phone=document.getElementById('pno').value;

// Username validation

if (username.length < 3) {

document.getElementById('une').innerHTML = 'Username must be at least 3

characters.';

s=false;

}

// Email validation

if (!/^[^\s@]+@[^\s@]+\.[^\s@]+$/.test(email)) {

document.getElementById('ee').innerHTML = 'Invalid email format.';

s=false;

}

// Password validation

if (password.length < 6) {

document.getElementById('pe').innerHTML = 'Password must be at least 6

characters.';

s=false;

}

// Confirm Password match

if (password !== confirmPassword) {

document.getElementById('rpe').innerHTML = 'Passwords do not match.';

s=false;

}

if(!/^[9|8|7|6]([0-9]{9})$/.test(phone))

{

document.getElementById('pne').innerHTML="Phone Number not Exist";

s=false;

}

return s;

}

</script>

</body>

</html>

**CSS File : Registerstylescript.css**

body {

font-family: Arial, sans-serif;

background: grey;

display: flex;

justify-content: center;

padding-top: 50px;

}

.container {

background: white;

padding:20px 40px;

border-radius: 8px;

width: 300px;

}

input,span{

width: 100%;

margin-bottom: 10px;

padding: 10px;

border: 1px solid #ddd;

border-radius: 4px;

}

.note

{

color:red;

font-size:14px;

}

.btn {

margin-left:15px;

align:center;

background: #28a745;

border-radius: 4px;

}

**PHP File:**

<html>

<head>

<title> Registration Status </title>

</head>

<body style="background-color:grey">

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname="library";

$conn = new mysqli($servername, $username, $password, $dbname);

if(!$conn){

echo '<h3 style="color:red; text-align:center; border:5px double blue;

padding:5px">Error happend at the time of Insertion </h3> ';

exit();

}

$stmt = $conn->prepare("INSERT INTO user\_regis VALUES(?,?,?,?,?,?)");

$stmt->bind\_param("ssssss", $n,$u,$p,$e,$pn,$d);

$n=$\_POST["name"];

$u=$\_POST["username"];

$p=$\_POST["pass"];

$e=$\_POST["email"];

$pn=$\_POST["pno"];

$d=$\_POST["dob"];

if($stmt->execute())

echo '<h2 style="color:green; text-align:center; border:5px double yellow;

padding:5px">Record inserted successfully </h2> ';

else

echo '<h3 style="color:red; text-align:center; border:5px double blue;

padding:5px">Error happend at the time of Insertion </h3> ';

$stmt->close();

$conn->close();

header("Refresh:4; url=index.html");

?> </body>

</html>

**7) Login in Php to MySQL Database**

**Database Name:** library

**Table Name :** user\_regis

**HTML File:** Login.html

<html>

<head>

<title>Login Form</title>

<link rel="stylesheet" href="Loginstyle.css">

</head>

<body>

<div class="container">

<h2>Login Form</h2>

<form action="Login.php" method="post">

<input type="text" name="username" placeholder="User Name" id="username"

required>

<input type="password" placeholder="Password" name="pass" id="pass" required>

<input class="btn" type="submit" value="Login">

</form>

</div>

</body>

</html>

**CSS File:** Loginstyle.css

body {

font-family: Arial, sans-serif;

background: lightblue;

display: flex;

justify-content: center;

padding:150px;

}

.container {

background: white;

padding:20px 40px;

border-radius: 8px;

width: 300px;

}

input{

width: 100%;

margin-bottom: 20px;

padding: 10px;

border: 1px solid #ddd;

border-radius: 4px;

}

.btn {

margin-top:15px;

margin-left:70px;

width:50%;

align:center;

background: orange;

border-radius:7px;

}

**PHP File :** Login.php

<html>

<head>

<title>Login Status </title>

</head>

<body style="background-color:lightblue">

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname="library";

$conn = new mysqli($servername, $username, $password, $dbname);

$u=$\_POST["username"];

$p=$\_POST["pass"];

$sql = "SELECT uname,password FROM user\_regis where uname= '{$u}' ";

$result = $conn->query($sql);

if ($result->num\_rows > 0) {

while($row = $result->fetch\_assoc()) {

if ($row["uname"]== $u && $row["password"]==$p)

{

header("Refresh:4; url=index.html");

echo '<h2 style="color:green; text-align:center; border:5px double yellow;

padding:5px"> You are successfully Validated </h2> ';

}

else

{

echo '<h3 style="color:red; text-align:center; border:5px double blue; padding:5px">

Credentials Wrong, Try again </h3> ';

}

}

}

else

{

echo '<h3 style="color:red; text-align:center; border:5px double blue; padding:5px">

User name given was not exist </h3> ';

}

$conn->close();

?>

</body>

</html>

**Logic Part of the Application can continue………Implement similar one for the following Applications,**

o Create a Website for Online Hotel Room Booking

o Create a Website for an Online Bus Ticket Booking System

o Create a Website for an Online Train Reservation System

o Create a website for an online flight reservation system

o Create a Website for an Online Cake Ordering System

o Create a Website for an Online Beauty Parlor Appointment Booking System

o Create a Website for an Online Hospital Appointment Booking System

o Create a website for an online