(Applications Development and Emerging Technologies)

TECHNICAL-SUMMATIVE ASSESSMENT

3

USER INTERFACES, SESSION AND COOKIES, MYSQL DATABASE AND RESET PASSWORD FEATURE

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I. PROGRAM OUTCOME/S (PO) ADDRESSED BY THE LABORATORY EXERCISE

- Design, implement and evaluate computer-based systems or applications to meet desired needs and requirements.

II. COURSE LEARNING OUTCOME/S (CLO) ADDRESSED BY THE LABORATORY EXERCISE

- Understand and apply best practices and standards in the development of website.

III. INTENDED LEARNING OUTCOME/S (ILO) OF THE LABORATORY EXERCISE

At the end of this exercise, students must be able to:

- To apply the available super global variables for form processing and validation.
- To differentiate the use of $_GET, $_POST, and $_REQUEST super global variable in form processing and know when to use it.
- To differentiate the use of Session and Cookies for form security of a Web Site.
- To know the proper syntax for validating user inputs using Regular Expression.
- To provide a good background of Relational Database using MySQL.
- To know the importance of Database in Web Application using MySQL.
- To Identify the importance of Database Structure in constructing tables.
- To be familiar with the syntax in managing users and database.
- To define a good structure of tables in a given database for data storage.
- To be familiar in the common syntax of creating database and tables and the correct data type to be used for each field.

IV. BACKGROUND INFORMATION

Superglobal variables

Example:
```php
Using GETs method
<form action="<?php echo $_SERVER['PHP_SELF'] ?>" method="get">
    string: <input type="text" name="str" value="get value">
        <input type="submit" name="submit" value="submit get">
</form>
Using POST method
<form action="<?php echo $_SERVER['PHP_SELF'] ?>" method="post">
    string: <input type="text" name="str" value="post value">
        <input type="submit" name="submit" value="submit post">
</form>
<?php
    echo "<br/>GET value: ";
    if(isset($_GET['submit'])){
        echo $_GET['str'];
    }
    echo "<br/>POST value: ";
    if(isset($_POST['submit'])){
        echo $_POST['str'];
    }
    echo "<br/>REQUEST value: ";
    if(isset($_REQUEST['submit'])){
        echo $_REQUEST['str'];
    }
?>
```

Cookies

Example: PHPSetCookies.php
```php
SET COOKIES
<?php
    setcookie("xcookie","value of x");
    setcookie("ycookie","value of y", time()+10);
    setcookie("zcookie","value of z",  time()+3600);
?>
```

Output 1: cookies were set
```
DISPLAY COOKIES

Array
(
    [xcookie] => value of x
    [ycookie] => value of y
    [zcookie] => value of z
)
```

Example: PHPDisplayCookies.php
```php
DISPLAY COOKIES
<?php
    echo "<pre>"; print_r($_COOKIE); echo "</pre>";
?>
```

Output 2: after 10 secs
```
DISPLAY COOKIES

Array
(
    [xcookie] => value of x
    [zcookie] => value of z
)
```

Example: PHPDeleteCookies.php
```php
DELETE COOKIES
<?php
    setcookie("zcookie","value of z",  time()-3600);
?>
```

Output 3: delete cookies
```
DISPLAY COOKIES

Array
(
    [xcookie] => value of x
)
```

Session

Example: PHPDisplaySession.php

```php
<?php
    session_start();
    if($_SESSION['logged']){
        echo "Welcome ".$_SESSION['name'];
        echo '<br/><a href="PHPUnsetSession.php">'.$_SESSION['email'].'</a>';
        echo '<br/><a href="PHPDeleteSession.php">Logout</a>';
    } else{
        echo '<a href="PHPSetSession.php">Login</a>';
    }
?>
```

Example: PHPDeleteSession.php

```php
<?php
    session_start();
    session_destroy();
    header('location: PHPDisplaySession.php');
?>
```

Example: Employee Directory DB

Fields

last_name	first_name	address	city	state	zip
Blair	Dennis	204 Spruce Lane	Brookfield	MA	01506
Hernandez	Louis	68 Boston Post Road	Spencer	MA	01562
Miller	Erica	271 Baker Hill Road	Brookfield	MA	01515
Morinaga	Scott	17 Ashley Road	Brookfield	MA	01515
Picard	Raymond	1113 Oakham Road	Barre	MA	01531

Records (Row)

Also called as flat-file database that stores information in a single table.

V. GRADING SYSTEM / RUBRIC (please see separate sheet)

VI. LABORATORY ACTIVITY

Activity A

1. Create a registration module just like what is shown below. Using $_GET or $_POST get the data from the forms and display below. Integrate HTML and CSS.

My Personal Information
First Name
> Chris

Middle Name
> Rosales

Last Name
> Tio

Username
> Chris01

Password
> 12345

Confirm Password
> 12345

Birthday
> January 30 1993

Email
> chris@gmail.com

Contact Number
> 09325454562

[Submit]

© Crix Brix

Note: the Password and Confirm Password should be the same before it show the result otherwise show "password and confirm password are not the same".

Result after click the submit button, It will show the result at the bottom of the webpage:

Full Name: Chris Rosales Tio
Username: Chris01
Password: 12345
Birthday: January 30 1993
Email: chris@gmail.com
Contact Number: 09325454562

SOURCE CODE:

```html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <meta charset="UTF-8" />
5     <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
6     <title>My Personal Information - POST METHOD</title>
7     <style>
8       body {
9         font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
10        background: linear-gradient(135deg, #9ed2c8, #e7f0dc);
11        margin: 0;
12        padding: 40px 20px;
13        display: flex;
14        justify-content: center;
15        align-items: flex-start;
16        min-height: 100vh;
17      }
18
19      .container {
20        width: 100%;
21        max-width: 640px;
22      }
23
24      form {
25        background: #ffffff;
26        padding: 35px 30px;
27        border-radius: 16px;
28        box-shadow: 0 10px 30px rgba(0, 0, 0, 0.1);
29        animation: fadeInUp 0.6s ease;
30      }
31
32      @keyframes fadeInUp {
33        from {
34          opacity: 0;
35          transform: translateY(40px);
36        }
37        to {
```

```css
38        opacity: 1;
39        transform: translateY(0);
40      }
41    }
42
43    .icon {
44      display: block;
45      margin: 0 auto 15px;
46      width: 80px;
47      height: 80px;
48      object-fit: contain;
49    }
50
51    h2 {
52      text-align: center;
53      color: #2c3e50;
54      margin-bottom: 20px;
55    }
56
57    label {
58      font-weight: 600;
59      margin-top: 10px;
60      display: block;
61      color: #34495e;
62    }
63
64    input[type="text"],
65    input[type="password"] {
66      width: 100%;
67      padding: 12px;
68      margin-top: 6px;
69      margin-bottom: 16px;
70      border: 1.5px solid #ccc;
```

```css
71        border-radius: 10px;
72        box-shadow: inset 0 2px 4px rgba(0, 0, 0, 0.05);
73        transition: border 0.3s ease, box-shadow 0.3s ease;
74      }
75
76      input[type="text"]:focus,
77      input[type="password"]:focus {
78        border-color: #9ed2c8;
79        outline: none;
80        box-shadow: 0 0 6px rgba(158, 210, 200, 0.5);
81      }
82
83      input[type="submit"] {
84        background-color: #9ed2c8;
85        color: #2c3e50;
86        padding: 14px;
87        width: 100%;
88        border: none;
89        border-radius: 10px;
90        font-weight: bold;
91        font-size: 1rem;
92        cursor: pointer;
93        transition: background-color 0.3s ease;
94      }
95
96      input[type="submit"]:hover {
97        background-color: #7fc0b2;
98      }
99
100     .output, .error {
101       background-color: #ffffff;
102       padding: 25px 30px;
103       border-radius: 16px;
104       margin-top: 30px;
```

```css
105       box-shadow: 0 10px 30px rgba(0, 0, 0, 0.08);
106       animation: fadeInUp 0.6s ease;
107     }
108
109     .output h3,
110     .error h3 {
111       margin-top: 0;
112       color: #2c3e50;
113     }
114
115     .output p {
116       margin: 6px 0;
117       color: #34495e;
118     }
119
120     .error {
121       background-color: #ffe6e6;
122       color: #a94442;
123     }
124
125     .error p {
126       margin: 6px 0;
127     }
128
129     @media (max-width: 600px) {
130       .container {
131         padding: 0 10px;
132       }
133
134       form {
135         padding: 25px 20px;
136       }
137
```

```
138          .output, .error {
139            padding: 20px;
140          }
141
142          .icon {
143            width: 60px;
144            height: 60px;
145          }
146        }
147      </style>
148    </head>
149    <body>
150      <div class="container">
151        <form method="post" action="">
152          <img src="regicon.png" alt="Registration Icon" class="icon" />
153          <h2>My Personal Information Registration Form</h2>
154
155          <label>First Name</label>
156          <input type="text" name="fname" placeholder="Enter First Name" required>
157
158          <label>Middle Name</label>
159          <input type="text" name="mname" placeholder="Enter Middle Name" required>
160
161          <label>Last Name</label>
162          <input type="text" name="lname" placeholder="Enter Last Name" required>
163
164          <label>Username</label>
165          <input type="text" name="username" placeholder="Enter Username" required>
166
167          <label>Password</label>
168          <input type="password" name="password" placeholder="Enter Password" required>
169
170          <label>Confirm Password</label>
171          <input type="password" name="confirm password" placeholder="Confirm Password" required>
```

```
173        <label>Birthday</label>
174        <input type="text" name="dob" placeholder="e.g. January 1 2001" required>
175
176        <label>Email</label>
177        <input type="text" name="email" placeholder="penny20@gmmail.com" required>
178
179        <label>Contact Number</label>
180        <input type="text" name="contact" placeholder="Enter Contact Number" required>
181
182        <input type="submit" value="Submit">
183      </form>
184
185  <?php
186  $nameValidation = "/^[A-Za-z\s]+$/";
187  $usernameValidation = "/^[A-Za-z0-9_]{3,20}$/";
188  $dobValidation = "/^(January|February|March|April|May|June|July|August|September|October|November|December)\s(0?[1-9]|[12][0-9]|3[01])\s(19|20)\d{2}$/";
189  $passwordValidation = "/^(?=.*[A-Za-z])(?=.*\d)[A-Za-z\d]{8,}$/"; //at least 8 characters, at least one letter and one number
190  $emailValidation = "/^([a-zA-Z0-9])+(a-zA-Z0-9._-])*@([a-zA-Z0-9_-])+([a-zA-Z0-9._-]+)+$/";
191  $contactValidation = "/^\d{11}$/";
192
193  if ($_SERVER['REQUEST_METHOD'] === 'POST') {
194      $fname = trim($_POST["fname"] ?? '');
195      $mname = trim($_POST["mname"] ?? '');
196      $lname = trim($_POST["lname"] ?? '');
197      $username = trim($_POST["username"] ?? '');
198      $password = trim($_POST["password"] ?? '');
199      $confirm_password = trim($_POST["confirm_password"] ?? '');
200      $dob = trim($_POST["dob"] ?? '');
201      $email = trim($_POST["email"] ?? '');
202      $contact = trim($_POST["contact"] ?? '');
203
204      $valid = true;
```

```php
206        if (!preg_match($nameValidation, $fname)) {
207            $valid = false;
208            $fnameError = "Invalid First Name. Please use letters only.";
209        }
210
211        if (!preg_match($nameValidation, $mname)) {
212            $valid = false;
213            $mnameError = "Invalid Middle Name. Please use letters only.";
214        }
215
216        if (!preg_match($nameValidation, $lname)) {
217            $valid = false;
218            $lnameError = "Invalid Last Name. Please use letters only.";
219        }
220
221        if (!preg_match($usernameValidation, $username)) {
222            $valid = false;
223            $usernameError = "Invalid Username. Username must be 3-20 characters long and can contain letters, numbers, and underscores.";
224        }
225
226        if (!preg_match($dobValidation, $dob)) {
227            $valid = false;
228            $dobError = "Invalid Date of Birth. Use format: Month Day Year (e.g., January 30 1993).";
229        }
230
231        if (!preg_match($passwordValidation, $password)) {
232            $valid = false;
233            $passwordError = "Invalid Password. Must be at least 8 characters, include a letter and a number.";
234        }
235
236        if ($password !== $confirm_password) {
237            $valid = false;
238            $passwordMatchError = "Passwords do not match.";
239        }
240
241        if (!preg_match($emailValidation, $email)) {
242            $valid = false;
243            $emailError = "Invalid Email.";
244        }
245
246        if (!preg_match($contactValidation, $contact)) {
247            $valid = false;
248            $contactError = "Invalid Contact Number. Enter a valid 11-digit number.";
249        }
250
251        if ($valid) {
252            echo "<div class='output'>";
253            echo "<h3>Personal Information</h3>";
254            echo "<p><strong>Full Name:</strong> " . htmlspecialchars($fname) . " " . htmlspecialchars($mname) . " " . htmlspecialchars($lname) . "</p>";
255            echo "<p><strong>Username:</strong> " . htmlspecialchars($username) . "</p>";
256            echo "<p><strong>Password:</strong> " . htmlspecialchars($password) . "</p>";
257            echo "<p><strong>Birthday:</strong> " . htmlspecialchars($dob) . "</p>";
258            echo "<p><strong>Email:</strong> " . htmlspecialchars($email) . "</p>";
259            echo "<p><strong>Contact Number:</strong> " . htmlspecialchars($contact) . "</p>";
260            echo "</div>";
261        } else {
262            echo "<div class='error'>";
263            echo "<h3>Error: Invalid Input</h3>";
264            if (isset($fnameError)) echo "<p>$fnameError</p>";
265            if (isset($mnameError)) echo "<p>$mnameError</p>";
266            if (isset($lnameError)) echo "<p>$lnameError</p>";
267            if (isset($usernameError)) echo "<p>$usernameError</p>";
268            if (isset($dobError)) echo "<p>$dobError</p>";
269            if (isset($passwordError)) echo "<p>$passwordError</p>";
270            if (isset($passwordMatchError)) echo "<p>$passwordMatchError</p>";
271            if (isset($emailError)) echo "<p>$emailError</p>";
272            if (isset($contactError)) echo "<p>$contactError</p>";
273            echo "</div>";
274        }
275    }
276    ?>
277    </div>
278    </body>
279    </html>
280
```

OUTPUT:

My Personal Information Registration Form

First Name
Enter First Name

Middle Name
Enter Middle Name

Last Name
Enter Last Name

Username
Enter Username

Password
Enter Password

Confirm Password
Confirm Password

Birthday
e.g. January 1 2001

Email
penny20@gmmail.com

Contact Number
Enter Contact Number

Submit

Email
penny20@gmmail.com

Contact Number
Enter Contact Number

Submit

Personal Information

Full Name: Alexa Joyce Gameng Cueto
Username: ac_lexa
Password: alexa123
Birthday: January 30 2005
Email: alexacueto30@gmail.com
Contact Number: 09455574721

Email
penny20@gmmail.com
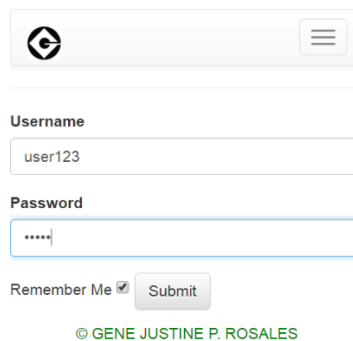
Contact Number
Enter Contact Number

Submit

Error: Invalid Input

Invalid Username. Username must be 3-20 characters long and can contain letters, numbers, and underscores.

Invalid Date of Birth. Use format: Month Day Year (e.g., January 30 1993).

Passwords do not match.

Invalid Contact Number. Enter a valid 11-digit number.

2. Create a login module just like what is shown below. Using setcookie() function, create cookies for the username and password. It must be saved in your web form if the remember me checkbox is checked only.

Username

user123

Password

•••••

Remember Me ☑   Submit

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SOURCE CODE:

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <title>Login Module</title>
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7
8     <!-- Bootstrap CSS -->
9     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
10
11    <style>
12      body {
13        background: linear-gradient(to bottom right, ■ #9ed2c8, ■ #e7f0dc);
14        font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
15        padding-top: 80px;
16        margin: 0;
17      }
18
19      .navbar {
20        background-color: ■ #e7f0dc;
21        box-shadow: 0 2px 5px □rgba(0, 0, 0, 0.1);
22        padding: 10px 20px;
23      }
24
25      .navbar-brand {
26        color: □ #2c3e50;
27        font-weight: bold;
28        font-size: 1.3rem;
29      }

35      .main-content {
36        display: flex;
37        justify-content: center;
```

```css
38        align-items: center;
39        min-height: calc(100vh - 140px);
40        padding: 20px;
41      }
42
43      .login-form {
44        max-width: 420px;
45        width: 100%;
46        background: #ffffff;
47        padding: 35px;
48        border-radius: 16px;
49        box-shadow: 0 10px 30px rgba(0, 0, 0, 0.15);
50        text-align: center;
51      }
52
53      .login-form img {
54        width: 80px;
55        height: 80px;
56        margin-bottom: 20px;
57      }
58
59      .form-control {
60        border-radius: 10px;
61        border: 1.5px solid #ccc;
62        box-shadow: inset 0 1px 3px rgba(0, 0, 0, 0.05);
63        transition: 0.3s ease;
64      }
65
66      .form-control:focus {
67        border-color: #9ed2c8;
68        box-shadow: 0 0 6px rgba(158, 210, 200, 0.5);
69      }
```

```css
71      .btn-secondary {
72        background-color: #9ed2c8;
73        color: #2c3e50;
74        font-weight: bold;
75        border: none;
76        transition: 0.3s ease;
77      }
78
79      .btn-secondary:hover {
80        background-color: #83c2b4;
81      }
82
83      .footer {
84        text-align: center;
85        margin-top: 30px;
86        color: #2c3e50;
87        font-weight: bold;
88      }
89    </style>
90  </head>
91  <body>
92
93  <!-- Navbar -->
94  <nav class="navbar navbar-expand-lg fixed-top">
95    <div class="container-fluid">
96      <a class="navbar-brand" href="#">Login Module</a>
102    </div>
103  </nav>
```

```php
105  <?php
106  $username = "";
107  $password = "";
108
109  // Check cookies only
110  if (isset($_COOKIE["username"])) {
111      $username = $_COOKIE["username"];
112  }
113  if (isset($_COOKIE["password"])) {
114      $password = $_COOKIE["password"];
115  }
116
117  if ($_SERVER["REQUEST_METHOD"] === "POST") {
118      $inputUsername = $_POST["username"] ?? "";
119      $inputPassword = $_POST["password"] ?? "";
120      $remember = isset($_POST["remember"]);
121
122      if ($remember) {
123          setcookie("username", $inputUsername, time() + 3600);
124          setcookie("password", $inputPassword, time() + 3600);
125          $username = $inputUsername;
126          $password = $inputPassword;
127      } else {
128          setcookie("username", "", time() - 3600);
129          setcookie("password", "", time() - 3600);
130          $username = "";
131          $password = "";
132      }
133
134      echo "<div class='text-center mt-4 text-success'><strong>Login submitted!</strong></div>";
135  }
136  ?>
```

```
138    <!-- Login Form -->
139    <div class="main-content">
140        <div class="login-form">
141            <img src="logoicon.png" alt="Login Icon">
142
143            <form method="post">
144                <div class="mb-3 text-start">
145                    <label for="username" class="form-label"><strong>Username</strong></label>
146                    <input type="text" class="form-control" name="username" id="username"
147                        value="<?= htmlspecialchars($username) ?>" required>
148                </div>
149
150                <div class="mb-3 text-start">
151                    <label for="password" class="form-label"><strong>Password</strong></label>
152                    <input type="password" class="form-control" name="password" id="password"
153                        value="<?= htmlspecialchars($password) ?>" required>
154                </div>
155
156                <div class="form-check mb-3 text-start">
157                    <input type="checkbox" class="form-check-input" id="remember" name="remember"
158                        <?= isset($_POST["remember"]) || isset($_COOKIE["username"]) ? 'checked' : '' ?>>
159                    <label class="form-check-label" for="remember">Remember Me</label>
160                </div>
161
162                <button type="submit" class="btn btn-secondary w-100">Submit</button>
163            </form>
164        </div>
165    </div>
166
167    <!-- Bootstrap JS -->
168    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
169    </body>
170    </html>
```

OUTPUT:

Login Module

Login submitted!

Username

Password

☐ Remember Me

Submit

3. Using the same login module, create a static variable that will hold your username and password. Get the value from the form and compare it. If the username and password matches, using $_SESSION, redirect the user to a homepage that will display your username stored in the session and a logout link that will redirect you to a logout.php containing session_destroy() function. If you have an active session, the user by changing the url above cannot access other pages such us the index page, login and registration pages. If there are no active sessions, users cannot open the home.php (or pages that has logout link)

SOURCE CODES:

Login.php

```php
<?php
session_name("StaticLoginSession");
session_start();

$validUsername = "admin";
$validPassword = "admin123";

$username = "";
$password = "";

if (isset($_COOKIE["username"])) {
    $username = $_COOKIE["username"];
}
if (isset($_COOKIE["password"])) {
    $password = $_COOKIE["password"];
}

if (isset($_SESSION["logged"])) {
    header("Location: welcome.php");
    exit;
}

if ($_SERVER["REQUEST_METHOD"] === "POST") {
    $inputUsername = $_POST["username"] ?? "";
    $inputPassword = $_POST["password"] ?? "";
    $remember = isset($_POST["remember"]);

    if ($inputUsername === $validUsername && $inputPassword === $validPassword) {
        $_SESSION["username"] = $inputUsername;
        $_SESSION["logged"] = true;

        if ($remember) {
            setcookie("username", $inputUsername, time() + 3600);
            setcookie("password", $inputPassword, time() + 3600);
        } else {
            setcookie("username", "", time() - 3600);
            setcookie("password", "", time() - 3600);
```

```php
38              }
39
40          header("Location: welcome.php");
41          exit;
42      } else {
43          echo "<div class='text-center mt-4 text-danger'><strong>Invalid credentials.</strong></div>";
44      }
45  }
46  ?>
47
48
49  <!DOCTYPE html>
50  <html lang="en">
51  <head>
52      <meta charset="UTF-8">
53      <title>Login Module</title>
54      <meta name="viewport" content="width=device-width, initial-scale=1">
55
56      <!-- Bootstrap CSS -->
57      <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
58
59      <style>
60      body {
61          background: linear-gradient(to bottom right, #9ed2c8, #e7f0dc);
62          font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
63          padding-top: 80px;
64      }
65
66      .navbar {
67          background-color: #e7f0dc;
68          box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
69      }
70
71      .navbar-brand, .nav-link {
72          color: #2c3e50;
73          font-weight: 600;
74      }
75
76      .nav-link:hover {
77          color: #1b2838;
78      }
79
80      .main-content {
81          display: flex;
82          justify-content: center;
83          align-items: center;
84          min-height: calc(100vh - 140px);
85      }
86
87      .login-form {
88          max-width: 420px;
89          width: 100%;
90          background: #ffffff;
91          padding: 35px;
92          border-radius: 16px;
93          box-shadow: 0 10px 30px rgba(0, 0, 0, 0.15);
94          text-align: center;
95      }
96
97      .login-form img {
98          width: 80px;
99          height: 80px;
100         margin-bottom: 20px;
101     }
102
103     .form-control {
104         border-radius: 10px;
105         border: 1.5px solid #ccc;
```

```css
106         box-shadow: inset 0 1px 3px rgba(0, 0, 0, 0.05);
107         transition: 0.3s ease;
108     }
109
110     .form-control:focus {
111         border-color: #9ed2c8;
112         box-shadow: 0 0 6px rgba(158, 210, 200, 0.5);
113     }
114
115     .btn-custom {
116         background-color: #9ed2c8;
117         color: #2c3e50;
118         font-weight: bold;
119         border: none;
120         transition: 0.3s ease;
121     }
122
123     .btn-custom:hover {
124         background-color: #83c2b4;
125     }
126
127     .footer {
128         text-align: center;
129         margin-top: 30px;
130         color: #2c3e50;
131         font-weight: bold;
132     }
133     </style>
134 </head>
135 <body>
136
137 <!-- Navbar -->
138 <nav class="navbar navbar-expand-lg fixed-top">
139     <div class="container-fluid">
```

```html
140         <a class="navbar-brand" href="#">Login</a>
141         <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
142             data-bs-target="#navbarNav" aria-controls="navbarNav"
143             aria-expanded="false" aria-label="Toggle navigation">
144             <span class="navbar-toggler-icon"></span>
145         </button>
146
147         <div class="collapse navbar-collapse" id="navbarNav">
148             <ul class="navbar-nav ms-auto">
149                 <li class="nav-item">
150                     <a class="nav-link" href="welcome.php">Welcome</a>
151                 </li>
152                 <li class="nav-item">
153                     <a class="nav-link" href="registrationform.php">Registration Form</a>
154                 </li>
155             </ul>
156         </div>
157     </div>
158 </nav>
159
160 <!-- Login Form -->
161 <div class="main-content">
162     <div class="login-form">
163         <img src="logoicon.png" alt="Login Icon">
164
165         <form method="post">
166             <div class="mb-3 text-start">
167                 <label for="username" class="form-label"><strong>Username</strong></label>
168                 <input type="text" class="form-control" name="username" id="username"
169                     value="<?= htmlspecialchars($username) ?>" required>
170             </div>
171
172             <div class="mb-3 text-start">
173                 <label for="password" class="form-label"><strong>Password</strong></label>
174                 <input type="password" class="form-control" name="password" id="password"
```

```php
175              |     value="<?= htmlspecialchars($password) ?>" required>
176          </div>
177
178          <div class="form-check mb-3 text-start">
179              <input type="checkbox" class="form-check-input" id="remember" name="remember"
180                  |     <?= isset($_POST["remember"]) || isset($_COOKIE["username"]) ? 'checked' : '' ?>>
181              <label class="form-check-label" for="remember">Remember Me</label>
182          </div>
183
184          <button type="submit" class="btn btn-custom w-100">Submit</button>
185      </form>
186    </div>
187  </div>
188
189  <!-- Bootstrap JS -->
190  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
191  </body>
192  </html>
193
```

Welcome.php

```php
1   <?php
2   session_name("StaticLoginSession");
3   session_start();
4   if (!isset($_SESSION["logged"])) {
5       header("Location: login.php");
6       exit;
7   }
8   ?>
9
10  <!DOCTYPE html>
11  <html lang="en">
12  <head>
13    <meta charset="UTF-8">
14    <title>Home</title>
15    <meta name="viewport" content="width=device-width, initial-scale=1">
16    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
17    <style>
18      body {
19        background: linear-gradient(to bottom right, #9ed2c8, #e7f0dc);
20        font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
21        margin: 0;
22        padding-top: 80px;
23        min-height: 100vh;
24        display: flex;
25        flex-direction: column;
26        justify-content: center;
27        align-items: center;
28      }
29
30      .navbar {
31        background-color: #e7f0dc;
32        box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
33      }
34
35      .navbar-brand, .nav-link {
36        color: #2c3e50;
37        font-weight: 600;
```

```css
38      }
39
40      .container {
41        background-color: #ffffff;
42        border-radius: 12px;
43        margin-top: 10px;
44        padding: 40px 30px;
45        box-shadow: 0 8px 20px rgba(0, 0, 0, 0.1);
46        text-align: center;
47        max-width: 600px;
48        width: 100%;
49        margin-bottom: 40px;
50      }
51
52      h1 {
53        color: #2c3e50;
54        margin-bottom: 10px;
55      }
56
57      p {
58        color: #34495e;
59        font-size: 1.1rem;
60      }
61
62      .logout-btn {
63        margin-top: 20px;
64        background-color: #dc3545;
65        color: white;
66        padding: 10px 24px;
67        border: none;
68        border-radius: 8px;
69        font-weight: bold;
70        transition: background-color 0.3s;
71        text-decoration: none;
```

```
72          display: inline-block;
73        }
74
75        .logout-btn:hover {
76          background-color: #bb2d3b;
77        }
78      </style>
79    </head>
80    <body>
81
82    <!-- Navbar -->
83    <nav class="navbar navbar-expand-lg fixed-top">
84      <div class="container-fluid">
85        <a class="navbar-brand" href="#">Home Page</a>
86        <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
87            data-bs-target="#navbarNav" aria-controls="navbarNav"
88            aria-expanded="false" aria-label="Toggle navigation">
89          <span class="navbar-toggler-icon"></span>
90        </button>
91
92        <div class="collapse navbar-collapse" id="navbarNav">
93          <ul class="navbar-nav ms-auto">
94            <li class="nav-item">
95              <a class="nav-link text" href="login.php">Log In</a>
96            </li>
97            <li class="nav-item">
98              <a class="nav-link text" href="registrationform.php">Registration Form</a>
99            </li>
100           <li class="nav-item">
101             <a class="nav-link text-danger" href="logout.php">Logout</a>
102           </li>
103         </ul>
104       </div>
105     </div>
```

```
108   <!-- Welcome Message -->
109   <div class="container mt-5">
110     <h1>Welcome, <?= htmlspecialchars($_SESSION["username"]) ?>!</h1>
111     <p>You are now logged in.</p>
112     <a href="logout.php" class="logout-btn">Logout</a>
113   </div>
114
115   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
116   </body>
117   </html>
118
```

Registration.php

```
1   <?php
2   session_name("StaticLoginSession");
3   session_start();
4   if (isset($_SESSION["logged"])) {
5       header("Location: welcome.php");
6       exit;
7   }
8   ?>
9
10  <!DOCTYPE html>
11  <html lang="en">
12  <head>
13    <meta charset="UTF-8" />
14    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
15    <title>My Personal Information - POST METHOD</title>
16    <!-- Bootstrap CSS -->
17    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
18    <style>
19      body {
20        font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
21        background: linear-gradient(135deg, #9ed2c8, #e7f0dc);
22        margin: 0;
23        padding: 40px 20px;
24        display: flex;
25        justify-content: center;
26        align-items: flex-start;
27        min-height: 100vh;
28      }
29
30      .navbar {
31        background-color: #e7f0dc !important;
32        box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
33      }
34
35      .navbar-brand,
36      .nav-link {
37        color: #2c3e50 !important;
```

```css
        font-weight: 600;
    }

    .container {
      padding: 50px;
      width: 100%;
      max-width: 640px;
    }

    form {
      background: #ffffff;
      padding: 35px 30px;
      border-radius: 16px;
      box-shadow: 0 10px 30px rgba(0, 0, 0, 0.1);
      animation: fadeInUp 0.6s ease;
    }

    @keyframes fadeInUp {
      from {
        opacity: 0;
        transform: translateY(40px);
      }
      to {
        opacity: 1;
        transform: translateY(0);
      }
    }

    .icon {
      display: block;
      margin: 0 auto 15px;
      width: 80px;
      height: 80px;
      object-fit: contain;
```

```css
    }

    h2 {
      text-align: center;
      color: #2c3e50;
      margin-bottom: 20px;
    }

    label {
      font-weight: 600;
      margin-top: 10px;
      display: block;
      color: #34495e;
    }

    input[type="text"],
    input[type="password"] {
      width: 100%;
      padding: 12px;
      margin-top: 6px;
      margin-bottom: 16px;
      border: 1.5px solid #ccc;
      border-radius: 10px;
      box-shadow: inset 0 2px 4px rgba(0, 0, 0, 0.05);
      transition: border 0.3s ease, box-shadow 0.3s ease;
    }

    input[type="text"]:focus,
    input[type="password"]:focus {
      border-color: #9ed2c8;
      outline: none;
      box-shadow: 0 0 6px rgba(158, 210, 200, 0.5);
    }
```

```css
    input[type="submit"] {
      background-color: #9ed2c8;
      color: #2c3e50;
      padding: 14px;
      width: 100%;
      border: none;
      border-radius: 10px;
      font-weight: bold;
      font-size: 1rem;
      cursor: pointer;
      transition: background-color 0.3s ease;
    }

    input[type="submit"]:hover {
      background-color: #7fc0b2;
    }

    .output, .error {
      background-color: #ffffff;
      padding: 25px 30px;
      border-radius: 16px;
      margin-top: 30px;
      box-shadow: 0 10px 30px rgba(0, 0, 0, 0.08);
      animation: fadeInUp 0.6s ease;
    }

    .output h3,
    .error h3 {
      margin-top: 0;
      color: #2c3e50;
    }

    .output p {
      margin: 6px 0;
      color: #34495e;
```

```css
    }

    .error {
      background-color: #ffe6e6;
      color: #a94442;
    }

    .error p {
      margin: 6px 0;
    }

    @media (max-width: 600px) {
      .container {
        padding: 0 10px;
      }

      form {
        padding: 25px 20px;
      }

      .output, .error {
        padding: 20px;
      }

      .icon {
        width: 60px;
        height: 60px;
      }
    }
  </style>
</head>
<body>
  <!-- Navbar -->
    <nav class="navbar navbar-expand-lg fixed-top">
```

```
175          <div class="container-fluid">
176              <a class="navbar-brand" href="#">Registration Form</a>
177              <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav"
178                  aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
179                  <span class="navbar-toggler-icon"></span>
180              </button>
181
182              <div class="collapse navbar-collapse" id="navbarNav">
183                  <ul class="navbar-nav ms-auto">
184                      <li class="nav-item">
185                          <a class="nav-link" href="welcome.php">Welcome</a>
186                      </li>
187                      <li class="nav-item">
188                          <a class="nav-link" href="login.php">Log In</a>
189                      </li>
190                  </ul>
191              </div>
192          </div>
193      </nav>
194
195      <!-- Registration Form -->
196      <div class="container">
197          <form method="post" action="">
198              <img src="regicon.png" alt="Registration Icon" class="icon" />
199              <h2>My Personal Information Registration Form</h2>
200
201              <label>First Name</label>
202              <input type="text" name="fname" placeholder="Enter First Name" required>
203
204              <label>Middle Name</label>
205              <input type="text" name="mname" placeholder="Enter Middle Name" required>
206
207              <label>Last Name</label>
210              <label>Username</label>
211              <input type="text" name="username" placeholder="Enter Username" required>
212
213              <label>Password</label>
214              <input type="password" name="password" placeholder="Enter Password" required>
215
216              <label>Confirm Password</label>
217              <input type="password" name="confirm_password" placeholder="Confirm Password" required>
218
219              <label>Birthday</label>
220              <input type="text" name="dob" placeholder="e.g. January 1 2001" required>
221
222              <label>Email</label>
223              <input type="text" name="email" placeholder="penny20@gmmail.com" required>
224
225              <label>Contact Number</label>
226              <input type="text" name="contact" placeholder="Enter Contact Number" required>
227
228              <input type="submit" value="Submit">
229          </form>
230
231  <?php
232  $nameValidation = "/^[A-Za-z\s]+$/";
233  $usernameValidation = "/^[A-Za-z0-9_]{3,20}$/";
234  $dobValidation = "/^(January|February|March|April|May|June|July|August|September|October|November|December)\s(0?[1-9]|[12][0-9]|3[01])\s(19|20)\d{2}$/";
235  $passwordValidation = "/^(?=.*[A-Za-z])(?=.*\d)[A-Za-z\d]{8,}$/"; //at least 8 characters, at least one letter and one number
236  $emailValidation = "/^([a-zA-Z0-9]+(a-zA-Z0-9.__-])*@([a-zA-Z0-9_-])+([a-zA-Z0-9.__-]+)+$/";
237  $contactValidation = "/^\d{11}$/";
238
239  if ($_SERVER['REQUEST_METHOD'] === 'POST') {
240      $fname = trim($_POST["fname"] ?? '');
241      $mname = trim($_POST["mname"] ?? '');
242      $lname = trim($_POST["lname"] ?? '');
243      $username = trim($_POST["username"] ?? '');
244      $password = trim($_POST["password"] ?? '');
245      $confirm_password = trim($_POST["confirm_password"] ?? '');
246      $dob = trim($_POST["dob"] ?? '');
247      $email = trim($_POST["email"] ?? '');
248      $contact  = trim($_POST["contact"] ?? '');
249
250      $valid = true;
251
252      if (!preg_match($nameValidation, $fname)) {
253          $valid = false;
254          $fnameError = "Invalid First Name. Please use letters only.";
255      }
256
257      if (!preg_match($nameValidation, $mname)) {
258          $valid = false;
259          $mnameError = "Invalid Middle Name. Please use letters only.";
260      }
261
```

```php
262         if (!preg_match($nameValidation, $lname)) {
263             $valid = false;
264             $lnameError = "Invalid Last Name. Please use letters only.";
265         }
266
267         if (!preg_match($usernameValidation, $username)) {
268             $valid = false;
269             $usernameError = "Invalid Username. Username must be 3-20 characters long and can contain letters, numbers, and underscores.";
270         }
271
272         if (!preg_match($dobValidation, $dob)) {
273             $valid = false;
274             $dobError = "Invalid Date of Birth. Use format: Month Day Year (e.g., January 30 1993).";
275         }
276
277         if (!preg_match($passwordValidation, $password)) {
278             $valid = false;
279             $passwordError = "Invalid Password. Must be at least 8 characters, include a letter and a number.";
280         }
281
282         if ($password !== $confirm_password) {
283             $valid = false;
284             $passwordMatchError = "Passwords do not match.";
285         }
286
287         if (!preg_match($emailValidation, $email)) {
288             $valid = false;
289             $emailError = "Invalid Email.";
290         }
291
292         if (!preg_match($contactValidation, $contact)) {
293             $valid = false;
294             $contactError = "Invalid Contact Number. Enter a valid 11-digit number.";
295         }
```

```php
297         if ($valid) {
298             echo "<div class='output'>";
299             echo "<h3>Personal Information</h3>";
300             echo "<p><strong>Full Name:</strong> " . htmlspecialchars($fname) . " " . htmlspecialchars($mname) . " " . htmlspecialchars($lname) . "</p>";
301             echo "<p><strong>Username:</strong> " . htmlspecialchars($username) . "</p>";
302             echo "<p><strong>Password:</strong> " . htmlspecialchars($password) . "</p>";
303             echo "<p><strong>Birthday:</strong> " . htmlspecialchars($dob) . "</p>";
304             echo "<p><strong>Email:</strong> " . htmlspecialchars($email) . "</p>";
305             echo "<p><strong>Contact Number:</strong> " . htmlspecialchars($contact) . "</p>";
306             echo "</div>";
307         } else {
308             echo "<div class='error'>";
309             echo "<h3>Error: Invalid Input</h3>";
310             if (isset($fnameError)) echo "<p>$fnameError</p>";
311             if (isset($mnameError)) echo "<p>$mnameError</p>";
312             if (isset($lnameError)) echo "<p>$lnameError</p>";
313             if (isset($usernameError)) echo "<p>$usernameError</p>";
314             if (isset($dobError)) echo "<p>$dobError</p>";
315             if (isset($passwordError)) echo "<p>$passwordError</p>";
316             if (isset($passwordMatchError)) echo "<p>$passwordMatchError</p>";
317             if (isset($emailError)) echo "<p>$emailError</p>";
318             if (isset($contactError)) echo "<p>$contactError</p>";
319             echo "</div>";
320         }
321     }
322     ?>
323     </div>
324     <!-- Bootstrap JS -->
325     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
326
327     </body>
328     </html>
```

Logout.php
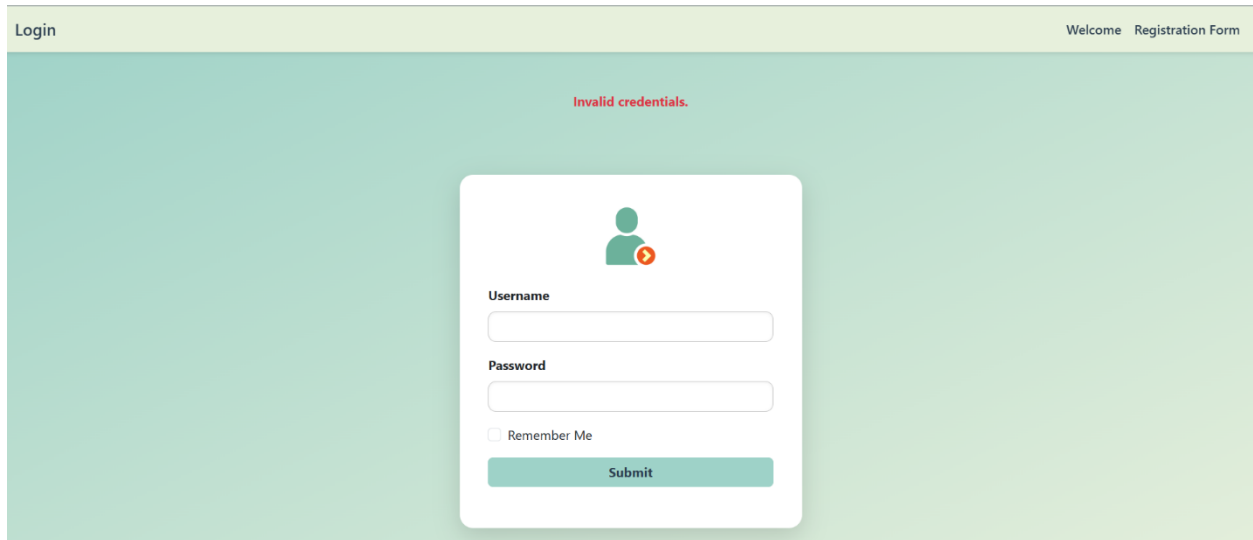
```php
1   <?php
2       session_name("StaticLoginSession");
3       session_start();
4       session_unset();
5       session_destroy();
6
7       header("Location: login.php");
8       exit();
9   ?>
10
```
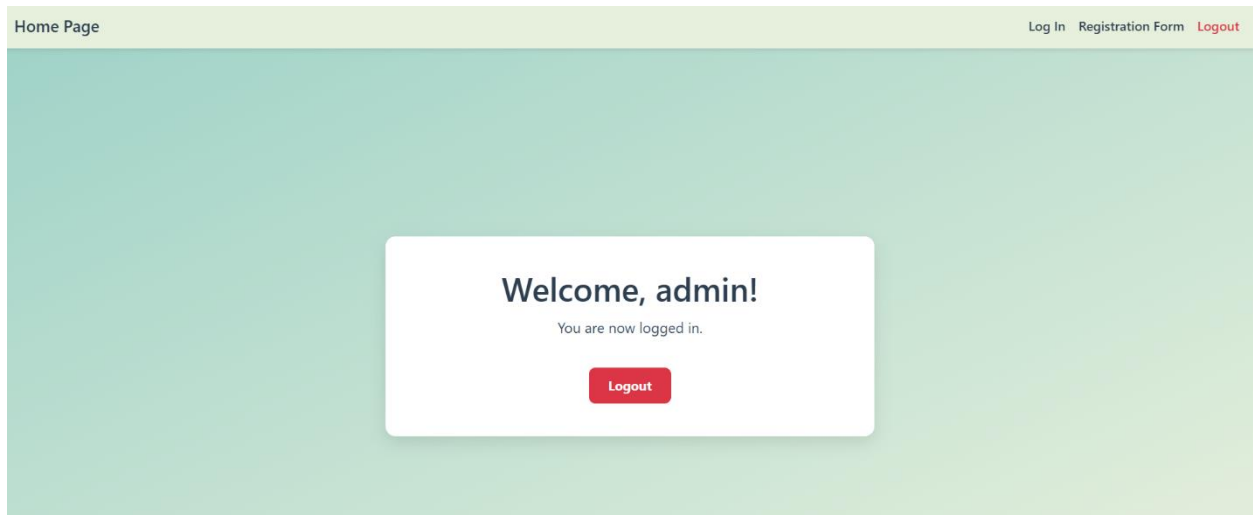
OUTPUTS:

(when I inputted different username and password different from the ones that were declared)

(logging in as admin with password of admin123, hence clicking login and registration form directs me to the same home page once the user is logged in)

(clicking logout)

(clicking registration form)

Activity B

1. Create a registration module just like what is shown below. Integrate HTML, CSS and PHP with MySQL.

My Personal Information

First Name

Chris

Middle Name

Rosales

Last Name

Tio

Username

Chris01

Password

12345

Confirm Password

12345

Birthday

January 30 1993

Email

chris@gmail.com

Contact Number

09325454562

Submit

© Crix Brix

Note: the Password and Confirm Password should be the same before it show the result otherwise show "password and confirm password are not the same".

Note: You will be using this form registration to input data then save to the database.

SOURCE CODES:

Regformdb.php

```php
1   <?php
2   $server = "localhost";
3   $user = "root";
4   $password = "";
5   $database = "registrationdb";
6
7   $conn = new mysqli($server, $user, $password, $database);
8
9   if ($conn->connect_error) {
10      die("Connection to the database has failed: " . $conn->connect_error);
11  }
12  ?>
13
14  <!DOCTYPE html>
15  <html lang="en">
16
17  <head>
18      <meta charset="UTF-8" />
19      <meta name="viewport" content="width=device-width, initial-scale=1.0" />
20      <title>My Personal Information - POST METHOD</title>
21      <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
22      <style>
23      body {
24          font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
25          background: linear-gradient(135deg, ▉ #dbcacf, ▉ #926c87);
26          margin: 0;
27          padding-top: 80px;
28          display: flex;
29          justify-content: center;
30          align-items: flex-start;
31          min-height: 100vh;
32      }
33
```

```css
    .navbar {
        background-color: #f0e0e6;
        box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
    }

    .navbar-brand,
    .nav-link {
        color: #333;
        font-weight: bold;
    }

    .nav-link:hover {
        color: #555;
    }

    .container {
        width: 100%;
        max-width: 640px;
        padding: 0 15px;
    }

    form {
        background: #ffffff;
        padding: 35px 30px;
        border-radius: 16px;
        box-shadow: 0 10px 30px rgba(0, 0, 0, 0.1);
        animation: fadeInUp 0.6s ease;
    }

    @keyframes fadeInUp {
        from {
            opacity: 0;
            transform: translateY(40px);
        }
```

```css
        to {
            opacity: 1;
            transform: translateY(0);
        }
    }

    .icon {
        display: block;
        margin: 0 auto 15px;
        width: 80px;
        height: 80px;
        object-fit: contain;
    }

    h2 {
        text-align: center;
        color: #2c3e50;
        margin-bottom: 20px;
    }

    label {
        font-weight: 600;
        margin-top: 10px;
        display: block;
        color: #34495e;
    }

    input[type="text"],
    input[type="password"] {
        width: 100%;
        padding: 12px;
        margin-top: 6px;
        margin-bottom: 16px;
        border: 1.5px solid #ccc;
```

```css
        border-radius: 10px;
        box-shadow: inset 0 2px 4px rgba(0, 0, 0, 0.05);
        transition: border 0.3s ease, box-shadow 0.3s ease;
    }

    input[type="text"]:focus,
    input[type="password"]:focus {
        border-color: #926c87;
        outline: none;
        box-shadow: 0 0 6px rgba(146, 108, 135, 0.5);
    }

    input[type="submit"] {
        background-color: #926c87;
        color: #fff;
        padding: 14px;
        width: 100%;
        border: none;
        border-radius: 10px;
        font-weight: bold;
        font-size: 1rem;
        cursor: pointer;
        transition: background-color 0.3s ease;
    }

    input[type="submit"]:hover {
        background-color: #7a546e;
    }

    .output,
    .error {
        background-color: #ffffff;
        padding: 25px 30px;
        border-radius: 16px;
```

```css
        margin-top: 30px;
        box-shadow: 0 10px 30px rgba(0, 0, 0, 0.08);
        animation: fadeInUp 0.6s ease;
    }

    .output h3,
    .error h3 {
        margin-top: 0;
        color: #2c3e50;
    }

    .output p {
        margin: 6px 0;
        color: #34495e;
    }

    .error {
        background-color: #ffe6e6;
        color: #a94442;
    }

    .error p {
        margin: 6px 0;
    }

    @media (max-width: 600px) {
        form {
            padding: 25px 20px;
        }

        .output,
        .error {
            padding: 20px;
        }
```

```
172         .icon {
173             width: 60px;
174             height: 60px;
175         }
176     }
177     </style>
178 </head>
179
180 <body>
181
182     <!-- Navbar -->
183     <nav class="navbar navbar-expand-lg fixed-top">
184         <div class="container-fluid">
185             <a class="navbar-brand" href="#">Registration Form</a>
186             <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
187                 data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
188                 aria-label="Toggle navigation">
189                 <span class="navbar-toggler-icon"></span>
190             </button>
191
192             <div class="collapse navbar-collapse" id="navbarNav">
193                 <ul class="navbar-nav ms-auto">
194                     <li class="nav-item">
195                         <a class="nav-link" href="2_logindb.php">Log In</a>
196                     </li>
197                 </ul>
198             </div>
199         </div>
200     </nav>
201
202     <!-- Main Container -->
203     <div class="container">
204         <form method="post" action="">
205             <img src="formicon.png" alt="Registration Icon" class="icon" />
206             <h2>My Personal Information Registration Form</h2>
207
208             <label>First Name</label>
209             <input type="text" name="fname" placeholder="Enter First Name" required>
210
211             <label>Middle Name</label>
212             <input type="text" name="mname" placeholder="Enter Middle Name" required>
213
214             <label>Last Name</label>
215             <input type="text" name="lname" placeholder="Enter Last Name" required>
216
217             <label>Username</label>
218             <input type="text" name="username" placeholder="Enter Username" required>
219
220             <label>Password</label>
221             <input type="password" name="password" placeholder="Enter Password" required>
222
223             <label>Confirm Password</label>
224             <input type="password" name="confirm_password" placeholder="Confirm Password" required>
225
226             <label>Birthday</label>
227             <input type="text" name="dob" placeholder="e.g. January 1 2001" required>
228
229             <label>Email</label>
230             <input type="text" name="email" placeholder="penny20@gmail.com" required>
231
232             <label>Contact Number</label>
233             <input type="text" name="contact" placeholder="Enter Contact Number" required>
234
235             <input type="submit" value="Submit">
236         </form>
237
```

```php
238             <?php
239     $nameValidation = "/^[A-Za-z\s]+$/";
240     $usernameValidation = "/^[A-Za-z0-9_]{3,20}$/";
241     $dobValidation =
242     "/^(January|February|March|April|May|June|July|August|September|October|November|December)\s(0?[1-9]|[12][0-9]|3[01])\s(19|20)\d{2}$/";
243     $passwordValidation = "/^(?=.*[A-Za-z])(?=.*\d)[A-Za-z\d]{8,}$/";
244     $emailValidation = "/^([a-zA-Z0-9])+([a-zA-Z0-9._-])*@([a-zA-Z0-9_-])+(\.[a-zA-Z0-9._-]+)+$/";
245     $contactValidation = "/^\d{11}$/";
246
247     if ($_SERVER['REQUEST_METHOD'] === 'POST') {
248         $fname = trim($_POST["fname"] ?? '');
249         $mname = trim($_POST["mname"] ?? '');
250         $lname = trim($_POST["lname"] ?? '');
251         $username = trim($_POST["username"] ?? '');
252         $password = trim($_POST["password"] ?? '');
253         $confirm_password = trim($_POST["confirm_password"] ?? '');
254         $dob = trim($_POST["dob"] ?? '');
255         $email = trim($_POST["email"] ?? '');
256         $contact  = trim($_POST["contact"] ?? '');
257
258         $valid = true;
259
260         if (!preg_match($nameValidation, $fname)) {
261             $valid = false;
262             $fnameError = "Invalid First Name. Please use letters only.";
263         }
264         if (!preg_match($nameValidation, $mname)) {
265             $valid = false;
266             $mnameError = "Invalid Middle Name. Please use letters only.";
267         }
268         if (!preg_match($nameValidation, $lname)) {
269             $valid = false;
270             $lnameError = "Invalid Last Name. Please use letters only.";
271         }
272         if (!preg_match($usernameValidation, $username)) {
273             $usernameError = "Invalid Username. 3-20 characters, letters, numbers, underscores.";
274         }
275         if (!preg_match($dobValidation, $dob)) {
276             $valid = false;
277             $dobError = "Invalid Date of Birth. Use format: Month Day Year.";
278         }
279         if (!preg_match($passwordValidation, $password)) {
280             $valid = false;
281             $passwordError = "Invalid Password. At least 8 characters, 1 letter, 1 number.";
282         }
283         if ($password !== $confirm_password) {
284             $valid = false;
285             $passwordMatchError = "Passwords do not match.";
286         }
287         if (!preg_match($emailValidation, $email)) {
288             $valid = false;
289             $emailError = "Invalid Email format.";
290         }
291         if (!preg_match($contactValidation, $contact)) {
292             $valid = false;
293             $contactError = "Invalid Contact Number. Must be 11 digits.";
294         }
295
296         if ($valid) {
297             $hashedPassword = password_hash($password, PASSWORD_DEFAULT);
298
299             $sql = "INSERT INTO users (fname, mname, lname, username, password, dob, email, contact)
300                     VALUES ('$fname', '$mname', '$lname', '$username', '$hashedPassword', '$dob', '$email', '$contact')";
301
302             if ($conn->query($sql) === TRUE) {
303                 echo "<div class='output'><h3>Registration Successful!</h3></div>";
304             } else {
305                 echo "<div class='error'><h3>Error: " . $conn->error . "</h3></div>";
306             }
```

```
307        } else {
308            echo "<div class='error'><h3>Error: Invalid Input</h3>";
309            if (isset($fnameError)) echo "<p>$fnameError</p>";
310            if (isset($mnameError)) echo "<p>$mnameError</p>";
311            if (isset($lnameError)) echo "<p>$lnameError</p>";
312            if (isset($usernameError)) echo "<p>$usernameError</p>";
313            if (isset($dobError)) echo "<p>$dobError</p>";
314            if (isset($passwordError)) echo "<p>$passwordError</p>";
315            if (isset($passwordMatchError)) echo "<p>$passwordMatchError</p>";
316            if (isset($emailError)) echo "<p>$emailError</p>";
317            if (isset($contactError)) echo "<p>$contactError</p>";
318            echo "</div>";
319        }
320    }
321    $conn->close();
322    ?>
323        </div>
324
325    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
326    </body>
327    </html>
328
```

(THE OUTPUTS OF 1, 2 AND 3 WILL BE DISPLAYED AFTER THE SOURCE CODES OF 1, 2, AND 3)

2. Using your credentials saved in your tables, it will be used to login in the system (create your own login page) include sessions in your webpages.

   Example of Login page:

   Log-In Form
   Username
   chris_tio
   Password
   •••••••••••••••

   Login

   © Crix Brix

SOURCE CODES:

Logindb.php

```php
1   <?php
2   session_name("DBLoginSession");
3   session_start();
4
5   //Database connection
6   $server = "localhost";
7   $user = "root";
8   $password = "";
9   $database = "registrationdb";
10
11  $conn = new mysqli($server, $user, $password, $database);
12
13  if ($conn->connect_error) {
14      die("Connection failed: " . $conn->connect_error);
15  }
16
17  if (isset($_SESSION["logged"])) {
18      header("Location: 2_welcomedb.php");
19      exit;
20  }
21
22  $error = "";
23
24  if ($_SERVER["REQUEST_METHOD"] === "POST") {
25      $inputUsername = trim($_POST["username"] ?? "");
26      $inputPassword = trim($_POST["password"] ?? "");
27
28      $sql = "SELECT * FROM users WHERE username = '$inputUsername'";
29      $result = $conn->query($sql);
30
31      if ($result && $result->num_rows === 1) {
32          $row = $result->fetch_assoc();
33
34          if (password_verify($inputPassword, $row["password"])) {
35              $_SESSION["username"] = $row["username"];
36              $_SESSION["logged"] = true;
37              header("Location: 2_welcomedb.php");
```

```php
38              exit;
39          } else {
40              $error = "Invalid username or password.";
41          }
42      } else {
43          $error = "Invalid username or password.";
44      }
45  }
46
47  $conn->close();
48  ?>
49
50  <!DOCTYPE html>
51  <html lang="en">
52  <head>
53      <meta charset="UTF-8">
54      <title>Login Module</title>
55      <meta name="viewport" content="width=device-width, initial-scale=1">
56
57      <!-- Bootstrap CSS -->
58      <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
59
60      <style>
61          body {
62              background: linear-gradient(135deg, #dbcacf, #926c87);
63              font-family: Arial, sans-serif;
64              padding-top: 80px;
65          }
66
67          .navbar {
68              background-color: #f0e0e6;
69              box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
70          }
```

```css
72          .navbar-brand, .nav-link {
73              color: #333;
74              font-weight: bold;
75          }
76
77          .main-content {
78              display: flex;
79              justify-content: center;
80              align-items: center;
81              min-height: calc(100vh - 140px);
82          }
83
84          .login-form {
85              max-width: 400px;
86              width: 100%;
87              background: #fff;
88              padding: 30px;
89              border-radius: 10px;
90              box-shadow: 0 0 15px rgba(0, 0, 0, 0.2);
91              text-align: center;
92          }
93
94          .login-form img {
95              width: 70px;
96              height: 70px;
97              margin-bottom: 20px;
98          }
99
100         .form-control {
101             border-radius: 5px;
102             border: 1px solid #ccc;
103             margin-bottom: 15px;
104         }
105
```

```css
106         .btn-submit {
107             background-color: #926c87;
108             color: white;
109             padding: 10px;
110             width: 100%;
111             border: none;
112             border-radius: 5px;
113         }
114
115         .btn-submit:hover {
116             background-color: #7b566e;
117         }
118     </style>
119 </head>
120 <body>
121
122 <!-- Navbar -->
123 <nav class="navbar navbar-expand-lg fixed-top">
124     <div class="container-fluid">
125         <a class="navbar-brand" href="#">Login</a>
126         <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
127                 data-bs-target="#navbarNav" aria-controls="navbarNav"
128                 aria-expanded="false" aria-label="Toggle navigation">
129             <span class="navbar-toggler-icon"></span>
130         </button>
131
132         <div class="collapse navbar-collapse" id="navbarNav">
133             <ul class="navbar-nav ms-auto">
134                 <li class="nav-item">
135                     <a class="nav-link" href="2_welcomedb.php">Welcome</a>
136                 </li>
137                 <li class="nav-item">
138                     <a class="nav-link" href="1_regformdb.php">Registration</a>
139                 </li>
140                 </ul>
```

```
145   <!-- Login Form -->
146   <div class="main-content">
147     <div class="login-form">
148       <img src="usericon.png" alt="Login Icon">
149
150       <form method="post">
151         <div class="text-start mb-3">
152           <label for="username" class="form-label"><strong>Username</strong></label>
153           <input type="text" class="form-control" name="username" id="username"
154                 value="<?= isset($_POST["username"]) ? htmlspecialchars($_POST["username"]) : '' ?>" required>
155         </div>
156
157         <div class="text-start mb-3">
158           <label for="password" class="form-label"><strong>Password</strong></label>
159           <input type="password" class="form-control" name="password" id="password" required>
160         </div>
161
162         <?php if ($error): ?>
163         <div class="text-danger mb-3">
164           <strong><?= $error ?></strong>
165         </div>
166         <?php endif; ?>
167
168         <button type="submit" class="btn-submit">Submit</button>
169       </form>
170     </div>
171   </div>
172
173   <!-- Bootstrap JS -->
174   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
175   </body>
176   </html>
```

Welcomedb.php

```
1    <?php
2    session_name("DBLoginSession");
3    session_start();
4
5    if (!isset($_SESSION["logged"])) {
6        header("Location: 2_logindb.php");
7        exit;
8    }
9
10   $server = "localhost";
11   $user = "root";
12   $password = "";
13   $database = "registrationdb";
14
15   //connection
16   $conn = new mysqli($server, $user, $password, $database);
17
18   //check connection
19   if ($conn->connect_error) {
20       die("Connection to the database has failed: " . $conn->connect_error);
21   }
22   ?>
23
24   <!DOCTYPE html>
25   <html lang="en">
26   <head>
27     <meta charset="UTF-8">
28     <title>Home Page</title>
29     <meta name="viewport" content="width=device-width, initial-scale=1">
30     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
31       <style>
32           body {
33               background: linear-gradient(135deg, #dbcacf, #926c87);
34               font-family: Arial, sans-serif;
35               margin: 0;
36               padding-top: 80px;
37               min-height: 100vh;
```

```css
        display: flex;
        flex-direction: column;
        justify-content: center;
        align-items: center;
    }

    .navbar {
        background-color: #f0e0e6;
        box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
    }

    .navbar-brand, .nav-link {
        color: #333;
        font-weight: bold;
    }

    .nav-link:hover {
        color: #555;
    }

    .container {
        background-color: #ffffff;
        border-radius: 12px;
        padding: 40px 30px;
        box-shadow: 0 0 15px rgba(0,0,0,0.2);
        text-align: center;
        max-width: 600px;
        width: 100%;
        margin-bottom: 40px;
    }

    h1 {
        color: #333;
```

```css
    }

    p {
        margin-top: 20px;
        font-size: 1.1rem;
        color: #555;
    }

    .logout-btn {
        margin-top: 20px;
        background-color: #dc3545;
        color: white;
        padding: 10px 24px;
        border: none;
        border-radius: 8px;
        font-weight: bold;
        transition: background-color 0.3s;
        text-decoration: none;
        display: inline-block;
    }

    .logout-btn:hover {
        background-color: #bb2d3b;
    }
    </style>
</head>
<body>

<!-- Navbar -->
<nav class="navbar navbar-expand-lg fixed-top">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Home Page</a>
```

```html
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
            data-bs-target="#navbarNav" aria-controls="navbarNav"
            aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav ms-auto">
        <li class="nav-item">
          <a class="nav-link text" href="2_logindb.php">Log In</a>
        </li>
        <li class="nav-item">
          <a class="nav-link text" href="3_recordret.php">Change Password</a>
        </li>
        <li class="nav-item">
          <a class="nav-link text-danger" href="2_logoutdb.php">Logout</a>
        </li>
      </ul>
    </div>
  </div>
</nav>

<div class="container">
    <h1>Welcome, <?= htmlspecialchars($_SESSION["username"]) ?>!</h1>
    <p>You have successfully logged in.</p>
    <a href="2_logoutdb.php" class ="logout-btn">Logout</a>
</div>

<!-- Bootstrap JS -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Logoutdb.php

```php
1  <?php
2      session_name("DBLoginSession");
3      session_start();
4      session_destroy();
5      header("Location: 2_logindb.php");
6      exit;
7  ?>
```

(THE OUTPUTS OF 1, 2 AND 3 WILL BE DISPLAYED AFTER THE SOURCE CODES OF 1, 2, AND 3)

3. User – Side Retrieval of Record
   Please see screenshot below for your guide.

Notes:
- Log-out link will destroy all sessions
- Enter current password should be the same with the old password, otherwise show a message "Current password is not the same with the old password"
- Enter new password and re-enter new password should be the same before it reset and save the new password, otherwise show a message "New password and Re-Enter new password should be the same."

SOURCE CODES:

```php
1   <?php
2   session_name('DBLoginSession');
3   session_start();
4
5   $server = "localhost";
6   $user = "root";
7   $password = "";
8   $database = "registrationdb";
9
10  $conn = new mysqli($server, $user, $password, $database);
11
12  if ($conn->connect_error) {
13      die("Connection to the database has failed: " . $conn->connect_error);
14  }
15
16  if (!isset($_SESSION['logged']) || !isset($_SESSION['username'])) {
17      header("Location: 2_logindb.php");
18      exit;
19  }
20
21  $username = $_SESSION['username'];
22
23  if (isset($_GET['logout'])) {
24      session_destroy();
25      header("Location: 2_logindb.php");
26      exit;
27  }
28
29  $sql = "SELECT * FROM users WHERE username = '$username'";
30  $result = $conn->query($sql);
31
32  if ($result && $result->num_rows === 1) {
33      $user = $result->fetch_assoc();
34  } else {
35      echo "User not found.";
36      exit;
37  }
```

```php
39  $successMsg = $errorMsg = "";
40
41  if ($_SERVER['REQUEST_METHOD'] === 'POST') {
42      $current = $_POST['current_password'] ?? '';
43      $new = $_POST['new_password'] ?? '';
44      $reenter = $_POST['reenter_password'] ?? '';
45
46      if (!password_verify($current, $user['password'])) {
47          $errorMsg = "Current password is not the same with the old password.";
48      } elseif ($new !== $reenter) {
49          $errorMsg = "New password and Re-Enter new password should be the same.";
50      } else {
51          $hashedNewPassword = password_hash($new, PASSWORD_DEFAULT);
52          $updateSql = "UPDATE users SET password = '$hashedNewPassword' WHERE username = '$username'";
53
54          if ($conn->query($updateSql) === TRUE) {
55              $successMsg = "Password has been successfully updated.";
56              $user['password'] = $hashedNewPassword;
57          } else {
58              $errorMsg = "Error updating password.";
59          }
60      }
61  }
62  ?>
63
64  <!DOCTYPE html>
65  <html>
66  <head>
67      <title>User Information Form</title>
68      <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">
69      <style>
70      body {
71          font-family: Arial, sans-serif;
72          background: linear-gradient(to bottom right, #dbcacf, #926c87);
73          margin: 0;
74          padding: 0;
```

```css
75          }
76
77          .navbar {
78              background-color: #f0e0e6;
79              box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
80          }
81
82          .navbar-brand, .nav-link {
83              color: #333;
84              font-weight: bold;
85          }
86
87          .nav-link:hover {
88              color: #555;
89          }
90
91          .container {
92              background: #fff;
93              border: 2px solid #926c87;
94              border-radius: 8px;
95              padding: 20px 30px;
96              max-width: 400px;
97              width: 100%;
98              margin: 100px auto 60px auto;
99              box-shadow: 0 4px 15px rgba(0, 0, 0, 0.2);
100         }
101
102         h2 {
103             text-align: center;
104             color: #926c87;
105         }
106
107         .logout {
108             text-align: center;
109             margin-bottom: 15px;
```

```css
110         }
111
112         .logout a {
113             background-color: red;
114             color: white;
115             text-decoration: none;
116             padding: 6px 12px;
117             border-radius: 4px;
118             font-weight: bold;
119             display: inline-block;
120         }
121
122         .logout a:hover {
123             background-color: darkred;
124         }
125
126         strong {
127             display: inline-block;
128             margin-top: 10px;
129             color: #333;
130         }
131
132         hr {
133             margin: 20px 0;
134             border: 1px solid #dbcacf;
135         }
136
137         input[type="password"] {
138             width: 100%;
139             padding: 8px;
140             margin-top: 6px;
141             margin-bottom: 12px;
142             border: 1px solid #ccc;
143             border-radius: 4px;
144         }
```

```css
146        .btn {
147            width: 100%;
148            background: #926c87;
149            color: #fff;
150            padding: 10px;
151            border: none;
152            border-radius: 6px;
153            cursor: pointer;
154            font-weight: bold;
155            margin-top: 10px;
156            margin-bottom: 20px;
157        }
158
159        .btn:hover {
160            background: #7b566e;
161        }
162
163        .message {
164            text-align: center;
165            margin: 10px 0;
166            font-weight: bold;
167        }
168
169        .error {
170            color: red;
171        }
172
173        .success {
174            color: green;
175        }
176        </style>
177    </head>
178
179    <body>
```

```html
181    <!-- Navbar -->
182    <nav class="navbar navbar-expand-lg fixed-top">
183        <div class="container-fluid">
184            <a class="navbar-brand" href="#">Change Password</a>
185            <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
186                data-bs-target="#navbarNav" aria-controls="navbarNav"
187                aria-expanded="false" aria-label="Toggle navigation">
188                <span class="navbar-toggler-icon"></span>
189            </button>
190
191            <div class="collapse navbar-collapse" id="navbarNav">
192                <ul class="navbar-nav ms-auto">
193                    <li class="nav-item">
194                        <a class="nav-link" href="2_welcomedb.php">Welcome</a>
195                    </li>
196                </ul>
197            </div>
198        </div>
199    </nav>
200
201    <!-- Main Content -->
202    <div class="container">
203        <h2>User Information Form</h2>
204        <div class="logout">
205            <a href="?logout=true">Log-out</a>
206        </div>
207
208        <p><strong>Welcome</strong> <?= htmlspecialchars($user['fname']." ".$user['mname']." ".$user['lname']) ?></p>
209        <p><strong>Birthday:</strong> <?= htmlspecialchars($user['dob']) ?></p>
210        <p><strong>Contact Details</strong></p>
211        <p><strong>Email:</strong> <?= htmlspecialchars($user['email']) ?></p>
212        <p><strong>Contact:</strong> <?= htmlspecialchars($user['contact']) ?></p>
213
214        <hr>
215        <strong>RESET PASSWORD</strong>
216        <?php if ($errorMsg): ?>
217            <div class="message error"><?= $errorMsg ?></div>
218        <?php endif; ?>
219        <?php if ($successMsg): ?>
220            <div class="message success"><?= $successMsg ?></div>
221        <?php endif; ?>
222
223        <form method="post">
224            <label>Enter Current Password:</label>
225            <input type="password" name="current_password" required>
226
227            <label>Enter New Password:</label>
228            <input type="password" name="new_password" required>
229
230            <label>Re-Enter New Password:</label>
231            <input type="password" name="reenter_password" required>
232
233            <button type="submit" class="btn">Reset Password</button>
234        </form>
235    </div>
236
237    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
238    </body>
239    </html>
```

(THE OUTPUTS OF 1, 2 AND 3 WILL BE DISPLAYED AFTER THE SOURCE CODES OF 1, 2, AND 3)

4. Screenshot the result of your database from the XAMPP.

	id	fname	mname	lname	username	password	dob	email	contact
☐ 🖉Edit ⁝⁝Copy ⊖Delete	1	Olivia Jane	Pena	Ortega	itsolivia	$2y$10$H8vKOs.f9qydXHclBlZbOOkTBXLG4I14SCM36SMvsS/...	February 15 2003	oliviaortega@gmail.com	09391573949
☐ 🖉Edit ⁝⁝Copy ⊖Delete	2	Alexa Joyce	Gameng	Cueto	ac_lexa	$2y$10$aeMDUTsY8YPFnJYywT8bjOi0vpsRsgPmXWBMH8AtYVn...	January 30 2005	alexa30@gmail.com	09455467832
☐ 🖉Edit ⁝⁝Copy ⊖Delete	3	Kira	Cruz	Victor	kiramazing	$2y$10$hYEXZHptjLf3.9tAl4gqJeNiEmqdg3JEFpcEGBYfzNs...	May 28 2002	kirakira1@gmail.com	09876782711
☐ 🖉Edit ⁝⁝Copy ⊖Delete	4	Haylie	Rosales	Dion	haylie001	$2y$10$ZVrEqE14W7zaFYA8njMtru9V4AXreKulkkRS6nwWz9h...	June 7 2003	hailey@gmail.com	09885611565

Snip and paste your source codes here. Snip it directly from the IDE so that colors of the codes are preserved for readability. Include additional pages if necessary.

OUTPUTS OF 1, 2 AND 3 OF ACTIVITY_B

(1. registration form)

Password

Enter Password

Confirm Password

Confirm Password

Birthday

e.g. January 1 2001

Email

penny20@gmail.com

Contact Number

Enter Contact Number

Submit

(after registration, a confirmation message will show)

Registration Successful!
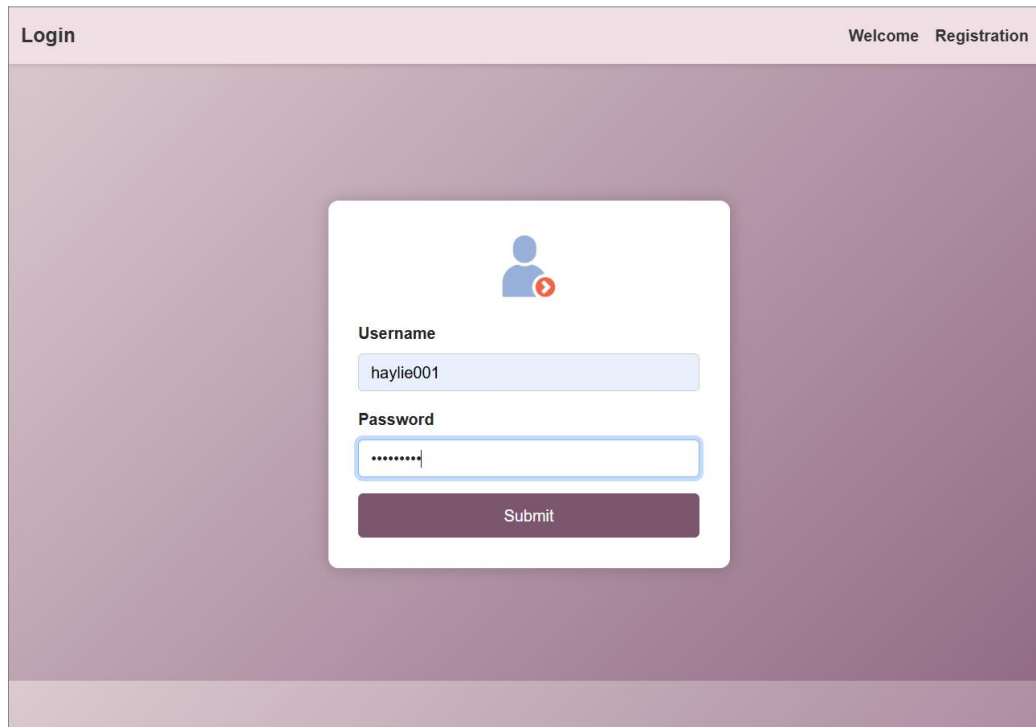
(invalid inputs)

Error: Invalid Input
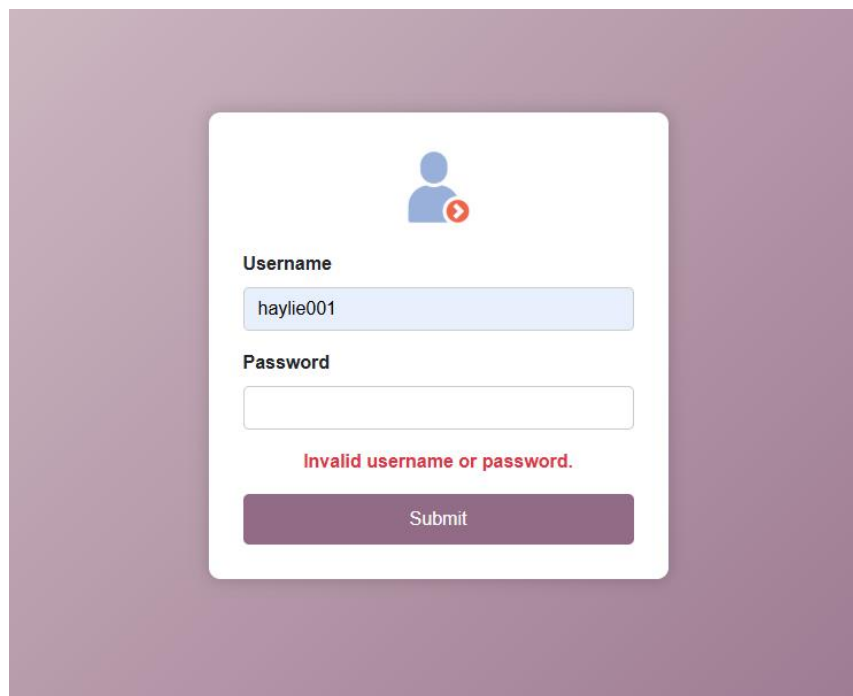
Invalid Date of Birth. Use format: Month Day Year.

Invalid Password. At least 8 characters, 1 letter, 1 number.

Passwords do not match.

(2. logindb.php)

(if not yet logged in and the user clicks on the welcome in the navbar, the browser remains on the login page, but it is opposite on the registration link)

(3. welcomed.php)

(login in the navbar when clicked still stays on the home page)
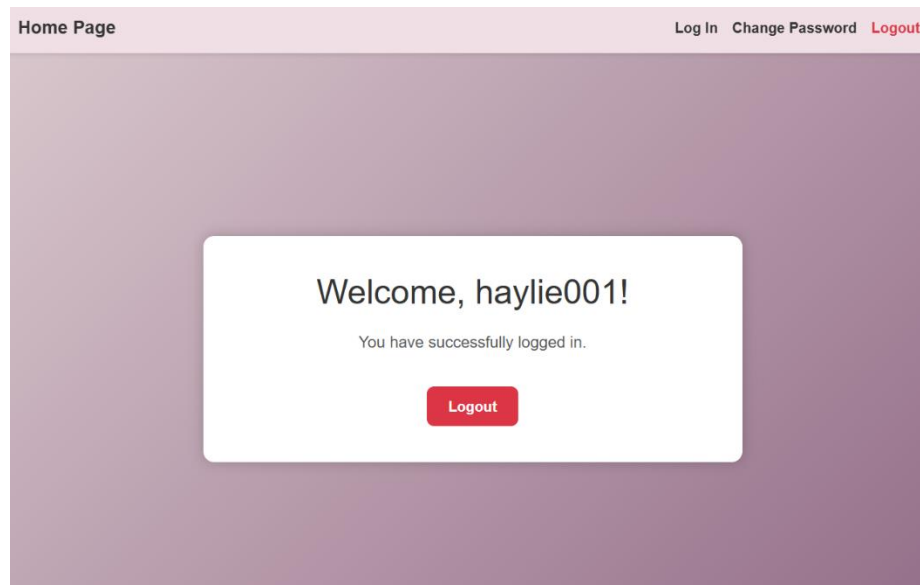
(4. recordret.php)

(the user is redirected here when they click change password in the navbar on the home page)

(after a successful change of password. If done, clicking the welcome in the navbar will redirect to the home page or clicking the logout will end the session)

(unsuccessful changes)

VII. QUESTION AND ANSWER

1. What are Super Global Variables?
   -Super Global Variables in PHP are built-in variables that are accessible from any scope throughout a script. Examples include $_GET, $_POST, $_SESSION, and $_COOKIE, which help manage data across pages and requests.
2. Differentiate $_GET, $_POST, and $_REQUEST
   -$_GET collects data sent via URL parameters, visible in the browser address bar, and is limited in size. $_POST collects data sent through HTTP POST method, suitable for sensitive or large data, while $_REQUEST contains data from both $_GET and $_POST (and $_COOKIE), combining them into one array.
3. What is Session?
   -A session is a way to store information (variables) to be used across multiple pages by the same user during their visit. It uses a unique session ID to track the user's data on the server side, enabling persistent state in a stateless HTTP environment.
4. What is a Cookie?
   -A cookie is a small piece of data stored on the user's browser by the web server to remember information between visits. Unlike sessions, cookies store data on the client side and can persist even after the browser is closed.
5. What is the importance of validation?
   -Validation ensures that the data entered by users is correct, complete, and secure before processing or storing it. It helps prevent errors, security vulnerabilities, and improves data integrity.
6. What is database?
   -A database is an organized collection of data stored electronically for easy access, management, and updating. It allows efficient storage and retrieval of information for applications and users.
7. What is the importance of database?
   -Databases enable structured storage and quick retrieval of large amounts of data, supporting dynamic websites and applications. They ensure data consistency, security, and multi-user access control.
8. What is the good structure of a database?
   -A good database structure organizes data into well-defined tables with clear relationships, using normalization to reduce redundancy. It includes primary keys, foreign keys, and indexes to ensure data integrity and efficient querying.

VIII. REFERENCES

1. https://www.w3schools.com/css/
2. https://www.w3schools.com/html/
3. https://www.w3schools.com/php/php_variables.asp
4. https://www.w3schools.com/php/php_superglobals_globals.asp

5. https://www.w3schools.com/php/php_superglobals_post.asp
6. https://www.w3schools.com/php/php_superglobals_get.asp
7. https://www.w3schools.com/php/php_superglobals_request.asp
8. https://www.w3schools.com/php/php_cookies.asp
9. https://www.w3schools.com/php/php_sessions.asp
10. https://www.w3schools.com/php/php_mysql_intro.asp
11. https://www.w3schools.com/php/php_mysql_connect.asp
12. https://www.w3schools.com/php/php_mysql_create.asp
13. https://www.w3schools.com/php/php_mysql_create_table.asp
14. https://www.w3schools.com/php/php_mysql_insert.asp
15. https://www.w3schools.com/php/php_mysql_insert_multiple.asp
16. https://www.w3schools.com/php/php_mysql_select.asp
17. https://www.w3schools.com/php/php_mysql_select_where.asp
18. https://www.w3schools.com/php/php_mysql_select_orderby.asp
19. https://www.w3schools.com/php/php_mysql_delete.asp
20. https://www.w3schools.com/php/php_mysql_update.asp
21. https://skillforge.com/how-to-create-a-database-using-phpmyadmin-xampp/

Note: The following rubrics/metrics will be used to grade students' output.

Program (100 pts.)	(Excellent)	(Good)	(Fair)	(Poor)
Program execution (20pts)	Program executes correctly with no syntax or runtime errors **(18-20pts)**	Program executes with less than 3 errors **(15-17pts)**	Program executes with more than 3 errors **(12-14pts)**	Program does not execute **(10-11pts)**
Correct output (20pts)	Program displays correct output with no errors **(18-20pts)**	Output has minor errors **(15-17pts)**	Output has multiple errors **(12-14pts)**	Output is incorrect **(10-11pts)**
Design of output (10pts)	Program displays more than expected **(10pts)**	Program displays minimally expected output **(8-9pts)**	Program does not display the required output **(6-7pts)**	Output is poorly designed **(5pts)**

Design of logic (20pts)	Program is logically well designed **(18-20pts)**	Program has slight logic errors that do no significantly affect the results **(15-17pts)**	Program has significant logic errors **(3-5pts)**	Program is incorrect **(10-11pts)**
Standards (20pts)	Program code is stylistically well designed **(18-20pts)**	Few inappropriate design choices (i.e. poor variable names, improper indentation) **(15-17pts)**	Several inappropriate design choices (i.e. poor variable names, improper indentation) **(12-14pts)**	Program is poorly written **(10-11pts)**
Delivery (10pts)	The program was delivered on time. **(10pts)**	The program was delivered a day after the deadline. **(8-9pts)**	The program was delivered two days after the deadline. **(6-7pts)**	The program was delivered more than two days after the deadline. **(5pts)**