Date	01 November 2022
TeamID	PNT2022TMID45992
ProjectName	Efficient Water Quality Analysis and Prediction Using Machine Learning
MaximumMarks	8Marks

INDEX.PHP

```php
<?php
  session_start();
  if (isset($_SESSION['SESSION_EMAIL'])) {
    header("Location:
    welcome.php"); die();
  }

  include 'config.php';
  $msg = "";

  if (isset($_GET['verification'])) {
    if (mysqli_num_rows(mysqli_query($conn, "SELECT * FROM users WHERE
code='{$_GET['verification']}'")) > 0) {
      $query = mysqli_query($conn, "UPDATE users SET code='' WHERE
code='{$_GET['verification']}'");

      if ($query) {
        $msg = "<div class='alert alert-success'>Account verification has been
successfully completed.</div>";
      }
    } else {
      header("Location: index.php");
    }
  }

  if (isset($_POST['submit'])) {
    $email = mysqli_real_escape_string($conn, $_POST['email']);
    $password = mysqli_real_escape_string($conn, md5($_POST['password']));

    $sql = "SELECT * FROM users WHERE email='{$email}' AND password='{$password}'";
    $result = mysqli_query($conn, $sql);

  if (mysqli_num_rows($result) === 1) {
    $row = mysqli_fetch_assoc($result);

      if (empty($row['code'])) {
        $_SESSION['SESSION_EMAIL'] = $email;
```

```
            header("Location: welcome.php");
        } else {
            $msg = "<div class='alert alert-info'>First verify your account and try again.</div>";
        }
    } else {
        $msg = "<div class='alert alert-danger'>Email or password do not match.</div>";
    }
  }
?>

<!DOCTYPE html>
<html lang="zxx">

<head>
    <title>Water Quality Analysis</title>
    <!-- Meta tag Keywords -->
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta charset="UTF-8" />
    <meta name="keywords"
        content="Login Form" />
    <!-- //Meta tag Keywords -->

    <link
href="//fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap"
rel="stylesheet">

    <!--/Style-CSS -->
    <link rel="stylesheet" href="css/style.css" type="text/css" media="all" />
    <!--//Style-CSS -->

    <script src="https://kit.fontawesome.com/af562a2a63.js"
    crossorigin="anonymous"></script>

</head>

<body>

    <!-- form section start -->
    <section class="w3l-mockup-form">
        <div class="container">
            <!-- /form -->
            <div class="workinghny-form-grid">
            <div class="main-mockup">
                <div class="alert-close">
                    <span class="fa fa-close"></span>
                </div>
                <div class="w3l_form align-self">
                    <div class="left_grid_info">
                        <img src="login1.jpeg" alt="">
                    </div>
                </div>
                <div class="content-wthree">
                    <h2>Login Now</h2>

                    >


required
```

```php
<?php echo $msg; ?>
<form action="" method="post">
    <input type="email" class="email" name="email" placeholder="Enter Your Email"
```

```html
                <input type="password" class="password" name="password"
placeholder="Enter Your Password" style="margin-bottom: 2px;" required>
                <p><a href="forgot-password.php" style="margin-bottom: 15px; display:
block; text- align: right;">Forgot Password?</a></p>
                <button name="submit" name="submit" class="btn"
                type="submit">Login</button>
              </form>
              <div class="social-icons">
                <p>Create Account! <a href="register.php">Register</a>.</p>
              </div>
            </div>
          </div>
        </div>
        <!-- //form -->
      </div>
    </section>
  <!-- //form section start -->

  <script src="js/jquery.min.js"></script>
  <script>
    $(document).ready(function (c) {
      $('.alert-close').on('click', function (c) {
        $('.main-mockup').fadeOut('slow', function (c) {
          $('.main-mockup').remove();
        });
      })
    });;

  </script>

 </body>

</html>
```

REGISTER.PHP

```php
<?php
  //Import PHPMailer classes into the global namespace
  //These must be at the top of your script, not inside a
  function use PHPMailer\PHPMailer\PHPMailer;
  use PHPMailer\PHPMailer\SMTP;
  use PHPMailer\PHPMailer\Exception;

  session_start();
  if (isset($_SESSION['SESSION_EMAIL'])) {
    header("Location:
    welcome.php"); die();
```

```php
    }

    //Load Composer's autoloader
    require 'vendor/autoload.php';

    include 'config.php';
    $msg = "";

    if (isset($_POST['submit'])) {
        $name = mysqli_real_escape_string($conn, $_POST['name']);
        $email = mysqli_real_escape_string($conn, $_POST['email']);
        $password = mysqli_real_escape_string($conn, md5($_POST['password']));
        $confirm_password = mysqli_real_escape_string($conn, md5($_POST['confirm-password']));
        $code = mysqli_real_escape_string($conn, md5(rand()));

        if (mysqli_num_rows(mysqli_query($conn, "SELECT * FROM users WHERE email='{$email}'")) > 0)
{
            $msg = "<div class='alert alert-danger'>{$email} - This email address has been already exists.</div>";
        } else {
        if ($password === $confirm_password) {
            $sql = "INSERT INTO users (name, email, password, code) VALUES ('{$name}', '{$email}', '{$password}', '{$code}')";
            $result = mysqli_query($conn, $sql);

            if ($result) {
                echo "<div style='display: none;'>";
                //Create an instance; passing `true` enables exceptions
                $mail = new PHPMailer(true);

                try {
                    //Server settings
                    $mail->SMTPDebug = SMTP::DEBUG_SERVER;      //Enable verbose debug output
                    $mail->isSMTP();                            //Send using SMTP
```

```php
        $mail->Host    = 'smtp.gmail.com';           //Set the SMTP server to send through

        $mail->SMTPAuth   = true;                 //Enable SMTP authentication

        $mail->Username =
'waterqualityanalysis@gmail.com ';          //SMTP username

        $mail->Password   = 'ibyuldmiuuxgvflj';              //SMTP password

        $mail->SMTPSecure = PHPMailer::ENCRYPTION_SMTPS;     //Enable implicit
encryptio   TLS
n


        $mail->Port    = 465;                    //TCP port to connect to; use 587 if you
have set `SMTPSecure = PHPMailer::ENCRYPTION_STARTTLS`


        //Recipients

        $mail->setFrom('waterqualityanalysis12@gmail.com');

        $mail->addAddress($email);


        //Content

        $mail->isHTML(true);                 //Set email format to HTML

        $mail->Subject = 'water quality register form';

        $mail->Body = ' click here to login
<b><a
href="http://localhost/login/?verification='.$code.'">
http://localhost/login/?verification='.$code.'</a></b
>';


        $mail->send();

        echo 'Message has been sent';

    } catch (Exception $e) {

        echo "Message could not be sent. Mailer Error: {$mail->ErrorInfo}";

    }

    echo "</div>";

        $msg = "<div class='alert alert-info'>We've send a verification link on your
email address.</div>";

    } else {

        $msg = "<div class='alert alert-danger'>Something wrong went.</div>";

    }

    } else {

        $msg = "<div class='alert alert-danger'>Password and Confirm Password do not
match</div>"
        ;
```

}

```
      }
    }
?>
```

```html
<!DOCTYPE html>
<html lang="zxx">

<head>
    <title>Water Quality Analysis</title>
    <!-- Meta tag Keywords -->
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta charset="UTF-8" />
    <meta name="keywords"
        content="Login Form" />
    <!-- //Meta tag Keywords -->


    <link
    href="//fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap"
rel="stylesheet">


    <!--/Style-CSS -->
    <link rel="stylesheet" href="css/style.css" type="text/css" media="all" />
    <!--//Style-CSS -->


    <script src="https://kit.fontawesome.com/af562a2a63.js"
    crossorigin="anonymous"></script>

</head>

<body>

    <!-- form section start -->
    <section class="w3l-mockup-form">
        <div class="container">
            <!-- /form -->
            <div class="workinghny-form-grid">
```

```html
<div class="main-mockup">
  <div class="alert-close">
      <span class="fa fa-close"></span>
  </div>
  <div class="w3l_form align-self">
    <div class="left_grid_info">
      <img src="reg1.jpeg" alt="">
    </div>
  </div>
  <div class="content-wthree">
    <h2>Register Now</h2>


    <?php echo $msg; ?>
    <form action="" method="post">
        <input type="text" class="name" name="name" placeholder="Enter Your Name" value="<?php if (isset($_POST['submit'])) { echo $name; } ?>" required>

        <input type="email" class="email" name="email" placeholder="Enter Your Email" value="<?php if (isset($_POST['submit'])) { echo $email; } ?>" required>

        <input type="password" class="password" name="password" placeholder="Enter Your Password" required>

        <input type="password" class="confirm-password" name="confirm-password" placeholder="Enter Your Confirm Password" required>

        <button name="submit" class="btn" type="submit">Register</button>
    </form>
    <div class="social-icons">
      <p>Have an account! <a href="index.php">Login</a>.</p>
    </div>
  </div>
</div>
</div>
<!-- //form -->
</div>
</section>
<!-- //form section start -->
```

```html
<script src="js/jquery.min.js"></script>
<script>
  $(document).ready(function (c) {
   $('.alert-close').on('click', function (c) {
      $('.main-mockup').fadeOut('slow', function (c) {
       $('.main-mockup').remove();
      });
    });
  });
</script>

</body>

</html>
```

WELCOME.PHP

```php
<?php
  session_start();
  if (!isset($_SESSION['SESSION_EMAIL'])) {
    header("Location: index.php");
    die();
  }

  include 'config.php';

  $query = mysqli_query($conn, "SELECT * FROM users WHERE
email='{$_SESSION['SESSION_EMAIL']}'");

  if (mysqli_num_rows($query) > 0) {
    $row = mysqli_fetch_assoc($query);

    echo "Welcome " . $row['name'] . " <a href='logout.php'>Logout</a>";
  }
?>
```

FORGET PWD.PHP

```php
<?php

session_start();
if (isset($_SESSION['SESSION_EMAIL'])) {
    header("Location: welcome.php");
    die();
}

//Import PHPMailer classes into the global namespace
//These must be at the top of your script, not inside a
function use PHPMailer\PHPMailer\PHPMailer;
use PHPMailer\PHPMailer\SMTP;
use PHPMailer\PHPMailer\Exception;

//Load Composer's
autoloader require
'vendor/autoload.php';

include 'config.php';
$msg = "";

if (isset($_POST['submit'])) {
    $email = mysqli_real_escape_string($conn, $_POST['email']);
    $code = mysqli_real_escape_string($conn, md5(rand()));

    if (mysqli_num_rows(mysqli_query($conn, "SELECT * FROM users WHERE email='{$email}'")) > 0) {
        $query = mysqli_query($conn, "UPDATE users SET code='{$code}' WHERE email='{$email}'");

        if ($query) {
            echo "<div style='display: none;'>";
            //Create an instance; passing `true` enables exceptions
            $mail = new PHPMailer(true);
```

```php
    try {
        //Server settings
        $mail->SMTPDebug = SMTP::DEBUG_SERVER;      //Enable verbose debug output
        $mail->isSMTP();                            //Send using SMTP
        $mail->Host    = 'smtp.gmail.com';          //Set the SMTP server to send through
        $mail->SMTPAuth   = true;                   //Enable SMTP authentication
        $mail->Username   = 'waterqualityanalysis12@gmail.com';     //SMTP username
        $mail->Password   = ' ibyuldmiuuxgvflj ';               //SMTP password
        $mail->SMTPSecure = PHPMailer::ENCRYPTION_SMTPS;     //Enable implicit TLS
encryption
        $mail->Port    = 465;                       //TCP port to connect to; use 587 if you have
        set
`SMTPSecure = PHPMailer::ENCRYPTION_STARTTLS`


        //Recipients
        $mail->setFrom('waterqualityanalysis12@gmail.com');
        $mail->addAddress($email);


        //Content
        $mail->isHTML(true);                        //Set email format to HTML
        $mail->Subject = 'waterqualityanalysis reset password';
        $mail->Body = 'reset link <b><a
href="http://localhost/login/change-
password.php?reset='.$code.'">http://localhost/login/change-
password.php?reset='.$code.'</a></b>';


        $mail->send();
        echo 'Message has been sent';
    } catch (Exception $e) {
        echo "Message could not be sent. Mailer Error: {$mail->ErrorInfo}";
    }
    echo "</div>";
    $msg = "<div class='alert alert-info'>We've send a verification link on your email
address.</div>";
    }
  } else {
    $msg = "<div class='alert alert-danger'>$email - This email address do not found.</div>";
  }
```

```
}

?>

<!DOCTYPE html>
<html lang="zxx">

<head>
    <title>Water Quality Analysis</title>
    <!-- Meta tag Keywords -->
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta charset="UTF-8" />
    <meta name="keywords"
        content="Login Form" />
    <!-- //Meta tag Keywords -->


    <link
    href="//fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600&display=swap"
rel="stylesheet">


    <!--/Style-CSS -->
    <link rel="stylesheet" href="css/style.css" type="text/css" media="all" />
    <!--//Style-CSS -->


    <script src="https://kit.fontawesome.com/af562a2a63.js"
    crossorigin="anonymous"></script>

</head>

<body>

    <!-- form section start -->
    <section class="w3l-mockup-form">
        <div class="container">
            <!-- /form -->
            <div class="workinghny-form-grid">
```

```html
<div class="main-mockup">
  <div class="alert-close">
    <span class="fa fa-close"></span>
  </div>
  <div class="w3l_form align-self">
    <div class="left_grid_info">
      <img src="fog1.jpeg" alt="">
    </div>
  </div>
  <div class="content-wthree">
    <h2>Forgot Password</h2>


    <?php echo $msg; ?>
    <form action="" method="post">
      <input type="email" class="email" name="email" placeholder="Enter Your Email"
required>
      <button name="submit" class="btn" type="submit">Send Reset Link</button>
    </form>
    <div class="social-icons">
      <p>Back to! <a href="index.php">Login</a>.</p>
    </div>
  </div>
  </div>
  </div>
  </div>
  <!-- //form -->
  </div>
</section>
<!-- //form section start -->

<script src="js/jquery.min.js"></script>
<script>
  $(document).ready(function (c) {
    $('.alert-close').on('click', function (c) {
      $('.main-mockup').fadeOut('slow', function (c) {
```

```
                    $('.main-mockup').remove();
                });
            });
        });
    </script>

</body>

</html>
```

LOGOUT.PHP

```php
<?php

session_start();
session_unset();
session_destroy();


header("Location: index.php");
```

STYLE.CSS

```css
html {
    scroll-behavior: smooth;
}

body,
html {
    margin: 0;
    padding: 0;
    font-family: 'Poppins', sans-serif;
}

* {
    box-sizing: border-box;
```

```css
}

.d-grid {
  display:
  grid;
}

.d-flex {
  display: flex;
  display: -webkit-flex;
}

.text-center {
  text-align: center;
}

.text-left {
  text-align: left;
}

.text-right {
  text-align: right;
}

button,
input,
select
{
  -webkit-appearance: none;
  outline: none;
  font-family: 'Poppins', sans-serif;
}

button,
.btn,
select {
```

```css
  cursor: pointer;
}

a {
  text-decoration: none;
}

img {
  max-width: 100%;
}

ul {
  margin: 0;
  padding: 0
}

h1,
h2,
h3,
h4,
h5,
h6,
p {
  margin: 0;
  padding: 0
}

p {
  color: #666;
  font-size:
  16px;
  line-height: 25px;
  opacity: .6;
}
```

```css
.p-relative {
  position: relative;
}

.p-absolute {
  position:
  absolute;
}

.p-fixed {
  position: fixed;
}

.p-sticky {
  position:
  sticky;
}

.btn,
button,
.actionbg
, input {
  border-radius: 4px;
  -webkit-border-radius: 4px;
  -moz-border-radius: 4px;
  -o-border-radius: 4px;
  -ms-border-radius: 4px;
}

.btn:hover,
button:hover {
  transition: 0.5s ease;
  -webkit-transition: 0.5s ease;
  -o-transition: 0.5s ease;
  -ms-transition: 0.5s ease;
  -moz-transition: 0.5s ease;
```

```css
}

/*-- wrapper start --*/
.wrapper {
  width:
  100%;
  padding-right:
  15px; padding-left:
  15px; margin-right:
  auto;
  margin-left: auto;
}

@media (min-width: 576px) {
  .wrapper {
    max-width: 540px;
  }
}

@media (min-width: 768px) {
  .wrapper {
    max-width: 720px;
  }
}

@media (min-width: 992px) {
  .wrapper {
    max-width: 960px;
  }
}

@media (min-width: 1200px) {
  .wrapper {
    max-width: 1140px;
  }
}
```

```css
.wrapper-full {
  width: 100%;
  padding-right:
  15px; padding-left:
  15px; margin-right:
  auto; margin-left:
  auto;
}

/*-- //wrapper start --*/

/*-- form styling --*/
.w3l-mockup-form {
  position: relative;
  min-height:
  100vh; z-index:
  0;
  background: rgba(99, 194, 110,
  0.1); padding: 40px 40px;
}

.container {
  max-width:
  890px; margin: 0
  auto;
}

.w3l_form {
  padding: 0px;
  flex-basis:
  50%;
  -webkit-flex-basis: 50%;
  background: #03cafc;
  padding: 100px 50px;
  border-top-left-radius:
```

8px;

border-bottom-left-radius: 8px;

display: flex;

```css
      justify-content: center;

      align-items: center;

    }


    .content-wthree

      { flex-basis:

      60%;

      -webkit-flex-basis:

      60%; box-sizing:

      border-box; padding:

      3em 3.5em;

      background: #fff;

      box-shadow: 2px 9px 49px -17px rgba(0, 0, 0,

      0.1); border-top-right-radius: 8px;

      border-bottom-right-radius: 8px;

    }


    .w3l-workinghny-form

      .logo{ text-align: center;

    }


    .w3l-mockup-form .main-mockup {

      position: relative;

      display: -webkit-box;

      display: -moz-box;

      display: -ms-flexbox;

      display: -webkit-flex;

      display: flex;

      margin: 40px 0;

    }


    .w3l-mockup-form .alert-

      close{ cursor: pointer;

      height: 35px;

      width: 35px;

      line-height: 35px;
```

```css
    position: absolute;
    right: -5px;
    top: -5px;
    background:
    #03cafc; border-
    radius: 50px; color:
    #fff;
    text-align: center;
}

.w3l-mockup-form form
    { margin-top: 30px;
    margin-bottom: 30px;
}

.social-icons {
    text-align: center;
}

.w3l-mockup-form
    h1 { text-align:
    center; font-size:
    40px;
    font-weight:
    500; color:
    #3b3663;
}

.w3l-mockup-form h2
    {   display:   inline-
    block;     font-size:
    25px;
    line-height: 35px;
    margin-bottom:
    5px; font-weight:
    600; color:
```

```
    #3b3663;

}
```

```css
.w3l-mockup-form input {
  outline: none;
  margin-bottom:
  15px; font-size:
  16px;
  color: #999;
  text-align:
  left;
  padding: 14px
  20px; width:
  100%; display:
  inline-block;
  box-sizing: border-box;
  border: none;
  outline: none;
  background: transparent;
  border: 1px solid #e5e5e5;
  transition: 0.3s all ease;
}

.w3l-mockup-form
  input:focus { border-color:
  #00c16e;
}

.w3l-mockup-form button
  { font-size: 18px;
  color: #fff;
  width:
  100%;
  background:
  #03cafc; border:
  none; padding:
  14px 15px; font-
  weight: 500;
  transition: .3s ease;
```

```
-webkit-transition: .3s ease;

-moz-transition: .3s ease;

-ms-transition: .3s ease;

-o-transition: .3s ease;
```

```css
}

.w3l-mockup-form button:hover {
  background: #4ca356;
}

.w3l-mockup-form .social-icons ul
  li { list-style: none;
  display: inline-block;
}

.w3l-mockup-form .social-icons ul li
  a { padding: 8px;
}

.w3l-mockup-form .social-icons ul li a:hover
  { opacity: 0.8;
  transition: 0.5s ease;
  -webkit-transition: 0.5s ease;
  -o-transition: 0.5s ease;
  -ms-transition: 0.5s ease;
  -moz-transition: 0.5s ease;
}

.w3l-mockup-form .social-icons ul span.fa {
  color: #696687;
  font-size: 18px;
  opacity: .8;
}

.w3l-mockup-form .social-icons ul li a.facebook
  span { color: #3b5998;
}
```

```css
.w3l-mockup-form .social-icons ul li a.twitter span {
  color: #1da1f2;
}

.w3l-mockup-form .social-icons ul li a.pinterest
  span { color: #e60023;
}


.copyright p {
  text-align:
  center; font-
  size: 17px;
  line-height:
  26px; color:
  #607863;
  opacity: 1;
}

p.copy-footer-29 a
  { color: #517856;
}

p.copy-footer-29 a:hover
  { color: #00c16e;
  transition: 0.5s ease;
  -webkit-transition: 0.5s ease;
  -o-transition: 0.5s ease;
  -ms-transition: 0.5s ease;
  -moz-transition: 0.5s ease;
}

.alert {
  padding: 1rem;
  border-radius:
  5px; color: white;
```

```css
    margin: 1rem 0;
}

.alert-success {
    background-color: #42ba96;
}

.alert-danger {
    background-color: #fc5555;
}

.alert-info {
    background-color: #2E9AFE;
}

.alert-warning {
    background-color: #ff9966;
}

/*-- responsive design --*/

@media (max-width:736px) {
    .w3l-mockup-form .main-
        mockup { flex-direction:
        column;
    }

    .w3l_form {
        order: 2;
        padding:
        50px;
        border-radius: 0;
        border-bottom-left-radius: 8px;
        border-bottom-right-radius:
        8px;
    }
```

```css
    .content-wthree {
      order: 1;
      border-radius: 0;
      border-top-left-radius: 8px;
      border-top-right-radius:
      8px;
    }
}

@media (max-width:568px) {
  .w3l-mockup-form h1 {
    font-size: 30px;
  }

  .w3l-mockup-form .main-
    mockup { margin: 30px 0;
  }

  .content-wthree {
    padding:
    2.5em;
  }
}

@media (max-width: 415px) {
  .w3l-mockup-form {
    padding: 40px 30px;
  }

}

@media (max-width:384px) {
  .w3l-mockup-form {
    padding: 30px 15px;
  }
```

```css
.content-wthree {
  padding: 2em;
}

.w3l-mockup-form h1
  { font-size: 28px;
}

.w3l-mockup-form h2 {
 font-size: 22px;
  line-height: 32px;
}

.copyright p {
  font-size:
  16px;
}
}

/*-- //responsive design --*/
/*-- //form styling --*/
```