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TeamID	PNT2022TMID25561
ProjectName	Efficient Water Quality Analysis and Prediction Using Machine Learning
MaximumMarks	8Marks

### INDEX.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">
                            
                        </div>
                    </div>
                    <div class="content-wthree">
                        <h2>Login Now</h2>

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

```

```

        <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

//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();
}

```

```
}
```

```
//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($conn, "SELECT * FROM users WHERE email='{$_POST['email']}'")) > 0)
    {
```

```
        $msg = "<div class='alert alert-danger'>{$_POST['email']} - This email address has been already exists.</div>";
```

```
    } else {
```

```
        if ($password === $confirm_password) {
```

```
            $sql = "INSERT INTO users (name, email, password, code) VALUES ('{$_POST['name']}', '{$_POST['email']}', '{$_POST['password']}', '{$_POST['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
```

```

$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 = 'ibyuldmuuxgvflj';        //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 = '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>";

}

```

```
    }  
  }  
?>
```

```
<!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">
            
        </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 -->

```

```
<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
    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
```

```
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);
```

```

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  = 'ibyuldmuuxgvflj';             //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">
```

```

<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">
      
    </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>
<!-- //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
```

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

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

## **STYLE.CSS**

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

```
body,
```

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

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

```
}
```

```
.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 {
```

```
    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;
}
```

```
.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;
```



```
}
```

```
/*-- 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;  
    }  
}
```

```
.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;
```

```
    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;
```

```
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;
}
```

```
.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;
```

```
}
```

```
.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;  
}
```

```
.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;
```

```
    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;
    }
```



```
.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;  
    }  
}
```

```
.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 --*/
```