Sign-up validation

```
<!DOCTYPE html>
<html>
<head>
    <title>Sign-Up Form</title>
</head>
<body>
    <h1>Sign-Up Form</h1>
    <form action="signup.php" method="POST">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" pattern="[A-Za-z]+" required>
        <br>
        <label for="surname">Surname:</label>
        <input type="text" id="surname" name="surname" pattern="[A-Za-z]+" required>
        <br>
        <label for="username">Username:</label>
        <input type="text" id="username" name="username" pattern="[A-Za-z0-9._-]+" required>
        <br>
        <label for="password">Password:</label>
        <input type="password" id="password" name="password" pattern="^(?=.*[a-z])(?=.*[A-Z])(?=.*\d).{8,16}$" required>
        <br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
        <br>
        <input type="submit" value="Submit">
    </form>
</body>
</html>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST["name"];
    $surname = $_POST["surname"];
```

```php
$username = $_POST["username"];

$password = $_POST["password"];

$email = $_POST["email"];

$errors = [];

// Validate name

if (!preg_match("/^[A-Za-z]+$/", $name)) {

    $errors[] = "Invalid name";

}

// Validate surname

if (!preg_match("/^[A-Za-z]+$/", $surname)) {

    $errors[] = "Invalid surname";

}

// Validate username

if (!preg_match("/^[A-Za-z0-9._-]+$/", $username)) {

    $errors[] = "Invalid username";

}

// Validate password

if (!preg_match("/^(?=.*[a-z])(?=.*[A-Z])(?=.*\d).{8,16}$/", $password)) {

    $errors[] = "Invalid password";

}

// Validate email

if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {

    $errors[] = "Invalid email";

}

// Display result

if (empty($errors)) {

    echo "Successfully submitted";

} else {

    echo "Errors on the following fields:<br>";

    foreach ($errors as $error) {

        echo "- $error<br>";

    }

} }?>
```

Uploading pictures

```html
<!DOCTYPE html>
<html>
<head>
   <title>Sign-Up Form</title>
</head>
<body>
   <h1>Sign-Up Form</h1>
   <form action="signup.php" method="POST" enctype="multipart/form-data">
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" pattern="[A-Za-z]+" required>
      <br>
      <label for="surname">Surname:</label>
      <input type="text" id="surname" name="surname" pattern="[A-Za-z]+" required>
      <br>
      <label for="username">Username:</label>
      <input type="text" id="username" name="username" pattern="[A-Za-z0-9._-]+" required>
      <br>
      <label for="password">Password:</label>
      <input type="password" id="password" name="password" pattern="^(?=.*[a-z])(?=.*[A-Z])(?=.*\d).{8,16}$" required>
      <br>
      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required>
      <br>
      <label for="picture">Picture:</label>
      <input type="file" id="picture" name="picture" accept="image/*" required>
      <br>
      <input type="submit" value="Submit">
   </form>
</body>
</html>
```

```php
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {

    $name = $_POST["name"];

    $surname = $_POST["surname"];

    $username = $_POST["username"];

    $password = $_POST["password"];

    $email = $_POST["email"];

    // Validate input fields

    $errors = [];

    // Validate name

    if (!preg_match("/^[A-Za-z]+$/", $name)) {

        $errors[] = "Invalid name";

    }

    // Validate surname

    if (!preg_match("/^[A-Za-z]+$/", $surname)) {

        $errors[] = "Invalid surname";

    }

    // Validate username

    if (!preg_match("/^[A-Za-z0-9._-]+$/", $username)) {

        $errors[] = "Invalid username";

    }

    // Validate password

    if (!preg_match("/^(?=.*[a-z])(?=.*[A-Z])(?=.*\d).{8,16}$/", $password)) {

        $errors[] = "Invalid password";

    }

    // Validate email

    if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {

        $errors[] = "Invalid email";

    }

    // Display result

    if (empty($errors)) {

        echo "Successfully submitted";

    } else {
```

```php
    echo "Errors on the following fields:<br>";

    foreach ($errors as $error) {

        echo "- $error<br>";

    }

}

// Handle file upload

if ($_FILES["picture"]["error"] == UPLOAD_ERR_OK) {

    $tmp_name = $_FILES["picture"]["tmp_name"];

    $name = basename($_FILES["picture"]["name"]);

    $target_file = "uploads/$name";

    $image_type = strtolower(pathinfo($target_file,PATHINFO_EXTENSION));

    // Check if file is an image

    $check = getimagesize($tmp_name);

    if ($check === false) {

        $errors[] = "File is not an image.";

    }

    // Check file size

    if ($_FILES["picture"]["size"] > 500000) {

        $errors[] = "File is too large.";

    }

    // Allow only specific file formats

    if ($image_type != "jpg" && $image_type != "jpeg" && $image_type != "png" && $image_type != "gif") {

        $errors[] = "Only JPG, JPEG, PNG, and GIF files are allowed.";

    }

    // Move uploaded file to uploads directory

    if (empty($errors) && move_uploaded_file($tmp_name, $target_file)) {

        // Display success page with uploaded image and input data

        echo "<h1>Sign-Up Successful!</h1>";

        echo "<img src=\"$target_file\" alt=\"Profile Picture\">";

        echo "<ul>";

        echo "<li>Name: $name</li>";

        echo "<li>Surname: $surname</li>";

        echo "<li>Username: $username</li>";
```

```php
        echo "<li>Email: $email</li>";

        echo "</ul>";

      } else {

        $errors[] = "Error uploading file.";

      }

    }

    // Display result

    if (empty($errors)) {

      // Handle successful submission without file upload

      echo "<h1>Sign-Up Successful!</h1>";

      echo "<ul>";

      echo "<li>Name: $name</li>";

      echo "<li>Surname: $surname</li>";

      echo "<li>Username: $username</li>";

      echo "<li>Email: $email</li>";

      echo "</ul>";

    } else {

      // Display sign-up form with error messages

      echo "<h1>Error</h1>";

      echo "<p>Errors on the following fields:</p>";

      echo "<ul>";

      foreach ($errors as $error) {

        echo "<li>$error</li>";

      }

      echo "</ul>";

      echo "<a href=\"signup.html\">Go back to Sign-Up</a>";

  }

}?>
```

File Manipulation

```php
<?php
// Path to the source file
$sourceFile = 'source.txt';
// Path to the destination file
$destinationFile = 'modified.txt';
// Read the source file
$fileContent = file_get_contents($sourceFile);
// Replace numbers with "#"
$fileContentModified = preg_replace('/\d/', '#', $fileContent);
// Write modified data to the destination file
file_put_contents($destinationFile, $fileContentModified);
echo 'File modification successful. Modified data has been written to the destination file.';
?>
```

Read and Show

```php
<?php
// Path to the student file
$studentFile = 'students.txt';
// Read the student file
$fileContent = file_get_contents($studentFile);
// Explode the content into an array of lines
$lines = explode("\n", $fileContent);
// Display the table header
echo "<table>";
echo "<tr>";
echo "<th>ID</th>";
echo "<th>Name</th>";
echo "<th>Surname</th>";
echo "<th>Literature</th>";
echo "<th>Math</th>";
echo "<th>Art</th>";
echo "<th>Science</th>";
echo "<th>Average</th>";
echo "</tr>";
// Process each line of the file
foreach ($lines as $line) {
    // Explode the line into an array of values
    $values = explode("\t", $line);
    // Display the student information
    echo "<tr>";
    foreach ($values as $value) {
        echo "<td>$value</td>";
    }
    echo "</tr>";
}
echo "</table>";
```

?>