

## PHP Code:

```
<?php
```

```
$name = $email = "";
```

```
$errors = [];
```

```
$successMessage = "";
```

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

```
    // Collect form data safely
```

```
    $name = trim($_POST["name"] ?? "");
```

```
    $email = trim($_POST["email"] ?? "");
```

```
    $password = $_POST["password"] ?? "";
```

```
    $confirmPassword = $_POST["confirm_password"] ?? "";
```

```
    if (empty($name)) {
```

```
        $errors["name"] = "Name is required";
```

```
    }
```

```
    if (empty($email)) {
```

```
    $errors["email"] = "Email is required";  
} elseif (!filter_var($email, FILTER_VALIDATE_EMAIL)) {  
    $errors["email"] = "Invalid email format";  
}
```

```
if (empty($password)) {  
    $errors["password"] = "Password is required";  
} elseif (strlen($password) < 6) {  
    $errors["password"] = "Password must be at least 6 characters";  
} elseif (!preg_match("/[@$!%*?&]/", $password)) {  
    $errors["password"] = "Password must contain at least one special character (@ $ ! % *  
? &);"  
}
```

```
if ($password !== $confirmPassword) {  
    $errors["confirm_password"] = "Passwords do not match";  
}
```

```
if (empty($errors)) {
```

```
    $file = "users.json";
```

```
    if (!file_exists($file)) {
```

```
        $errors["file"] = "User data file not found.";
```

```
} else {
```

```
    $jsonData = file_get_contents($file);
```

```
    if ($jsonData === false) {
```

```
        $errors["file"] = "Failed to read user data.";
```

```
    } else {
```

```
        $users = json_decode($jsonData, true);
```

```
        if (!is_array($users)) {
```

```
            $errors["file"] = "Invalid JSON format.";
```

```
        } else {
```

```
            $hashedPassword = password_hash($password, PASSWORD_DEFAULT);
```

```
            $newUser = [
```

```
                "name" => $name,
```

```
                "email" => $email,
```

```
                "password" => $hashedPassword
```

```
            ];
```

```
            $users[] = $newUser;
```

```
            $updatedJson = json_encode($users, JSON_PRETTY_PRINT);
```

```
            if (file_put_contents($file, $updatedJson) === false) {
```

```

        $errors["file"] = "Failed to save user data.";
    } else {
        $successMessage = "Registration successful!";
        $name = $email = "";
    }
}
}
}
}
}
}
}
?>

```

```

<!DOCTYPE html>

<html>

<head>

    <title>User Registration</title>

    <style>

        body { font-family: Arial; background: black; }

        form { background: white; padding: 20px; width: 400px; margin: 50px auto; }

        label { display: block; margin-top: 10px; }

        input { width: 100%; padding: 8px; margin-top: 5px; }

        .error { color: red; font-size: 14px; }

        .success { color: green; text-align: center; margin-bottom: 10px; }

        button { margin-top: 15px; padding: 10px; width: 100%; }

    </style>

</head>

```

<body>

<form method="POST">

<h2>User Registration</h2>

<?php if (\$successMessage): ?>

<div class="success"><?= \$successMessage ?></div>

<?php endif; ?>

<label>Name</label>

<input type="text" name="name" value="<?= htmlspecialchars(\$name) ?>">

<div class="error"><?= \$errors["name"] ?? "" ?></div>

<label>Email</label>

<input type="email" name="email" value="<?= htmlspecialchars(\$email) ?>">

<div class="error"><?= \$errors["email"] ?? "" ?></div>

<label>Password</label>

<input type="password" name="password">

<div class="error"><?= \$errors["password"] ?? "" ?></div>

<label>Confirm Password</label>

<input type="password" name="confirm\_password">

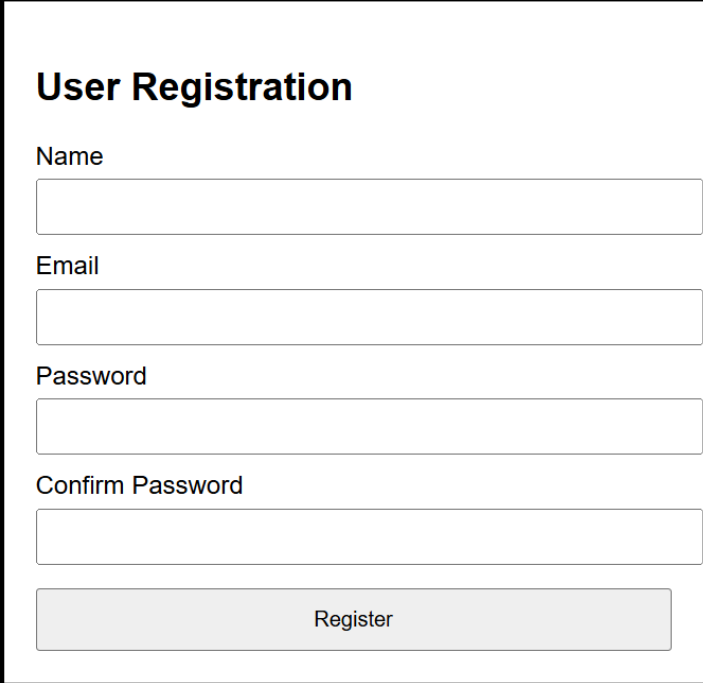
<div class="error"><?= \$errors["confirm\_password"] ?? "" ?></div>

<div class="error"><?= \$errors["file"] ?? "" ?></div>

```
<button type="submit">Register</button>
</form>

</body>
</html>
```

## Output:

The image shows a user registration form rendered in a web browser. The form is titled "User Registration" in bold black text. It contains four input fields: "Name", "Email", "Password", and "Confirm Password", each with a corresponding label above it. The input fields are white with a thin gray border. At the bottom of the form is a gray "Register" button with rounded corners. The entire form is centered on a black background.

**User Registration**

Name

Email

Password

Confirm Password

Register

# User Registration

Registration successful!

Name

Email

Password

Confirm Password

Register

# User Registration

Name

Name is required

Email

Email is required

Password

Password is required

Confirm Password

Register