

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.";
```

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    } 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) {
```

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$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>

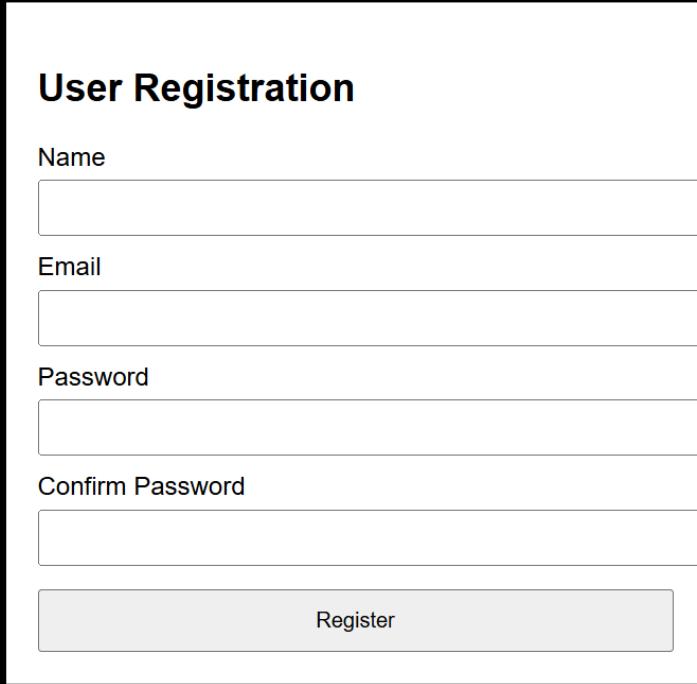
    <label>Confirm Password</label>
    <input type="password" name="confirm_password">
    <div class="error"><?= $errors["confirm_password"] ?? "" ?></div>

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

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

```
</body>  
</html>
```

Output:



The image shows a user registration form titled "User Registration". The form consists of five input fields: "Name", "Email", "Password", and "Confirm Password", each followed by a blank input box. Below these fields is a "Register" button.

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