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PHP Exercise – User Profile Manager (without database)

6 Objectives

- Master PHP forms
- Handle files (uploads, JSON)
- Use sessions to manage login
- Secure user data

Instructions

- 1. Login page (login.php)
 - A form with a "username" field (e.g., "jdupont").
 - On submission:
 - Check that the username is alphanumeric.
 - Save the username in the **session**.
 - Redirect to profile.php.
- 2. Profile management page (profile.php)
 - Check that the user is logged in via the session.
 - Display a **form** with:
 - First name (text input)
 - Bio (textarea)
 - Profile photo (image file)
 - On submission:
 - Sanitize fields (htmlspecialchars)
 - Validate and upload the photo (images only, max 2 MB)
 - Save the data in a users. json file (format given below)
- 3. Format of the users.json file

Here is a possible format example for the JSON:

```
"jdupont": {
  "prenom": "Jean",
  "bio": "Junior web developer.",
  "photo": "../uploads/jdupont.jpg"
},
"amartin": {
  "prenom": "Alice",
  "bio": "Web mobile student.",
  "photo": "../uploads/amartin.png"
```

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```
}
}
```

4. Bonus Improvements (optional)

These elements help strengthen security and prepare learners for more advanced concepts:

• Add a password to the login

- Add a "password" field in login.php.
- Save the hashed password with password_hash() in users.json.
- Verify the password using password_verify() during login.

• Protection against CSRF attacks

- Generate a CSRF token and store it in the session.
- Add a hidden input field containing this token in all forms.
- Check that the submitted token matches the one stored in the session.

• Add a simple captcha

- Generate a code (text or simple calculation) stored in the session.
- The user must enter the result in a form field.
- o Compare the values during form submission.

• Server-side and client-side validation

- Server-side:
 - Check file MIME types (mime_content_type()).
 - Validate email formats (filter_var() with FILTER_VALIDATE_EMAIL).
- o Client-side:
 - Add HTML attributes like required, pattern, etc.
 - Add JavaScript validation to guide the user.

• Logging user logins

- On each successful login, write a line to a log.txt file including:
 - Date and time
 - Username
 - User's IP address (\$_SERVER['REMOTE_ADDR'])