AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Science and Technology (FST)
Department of Computer Science (CS)
Course: Web Technologies

Lab Task 03: Session and Cookie Management in PHP

Instructions:

1. **Complete the task using PHP and HTML only.**
2. **Do not use any database.**
3. **Use PHP sessions and cookies properly.**
4. **Maintain clean file naming and structure.**
5. **Push all files to your GitHub repository after completion.**

Scenario:

You are developing a simple user system where a visitor logs in using basic information. The system should remember the user during navigation using sessions and optionally remember the user for a longer time using cookies. This task introduces how PHP manages user state across multiple requests.

Task Requirements:

Create the following files:

- login.php
- process_login.php
- dashboard.php
- logout.php

Part A: Login Form (login.php)

Create a login form that collects:

- Username (text input)
- Password (password input)
- "Remember Me" checkbox
- Login button

Requirements:

- Use method="post"
- Properly label form fields

- No authentication database is required (use hardcoded values)

Part B: Login Processing (process_login.php)

1. Start a PHP session.

Validate login credentials using hardcoded values (e.g., username and password).

If login is successful:

- Store username in a session variable
- If "Remember Me" is checked, store username in a cookie
- Redirect the user to dashboard.php

If login fails:

- Display an error message
- Provide a link back to the login page

Part C: Protected Page (dashboard.php)

1. Start the session.

2. Check if the session variable exists:

- If yes, display:
    - Welcome message with username
    - Information retrieved from session
    - Message indicating whether cookie is set
- If not, redirect to login.php

3. Display:

- Session ID
- Cookie value (if available)

Part D: Logout (logout.php)

2. Destroy the session properly.
3. Remove the cookie.
4. Display a logout confirmation message.
5. Provide a link back to the login page.