# Task 8 - Documentation

As part of Task 5, I implemented the following components using Xampp:

* Implemented login/logout functionality using PHP and MySQL.
* Created two tables: user (user info) and userlog (login/logout tracking).
* Built an admin panel to manage users (add, edit, delete, update status).
* User is revoked after more than 3 failed login attempts.
* Stored session info in the userlog table for each login/logout.
* Added SQL export/download for table creation and user inserts via UI.

# File Organization in Directory (htdocs/cs6314/task5)

|  |  |
| --- | --- |
| File Name | Description |
| db.php | Database connection file used by all PHP scripts. |
| create\_tables.php | Creates user and userlog tables in the database and triggers SQL file download. |
| setusers.php | Inserts initial admin and user into the user table and downloads the insert SQL. |
| login\_form.php | Login page with a form for user ID and password. Displays error messages on failure. |
| login.php | Handles login logic: verifies credentials, tracks failed attempts, starts session, logs login time. |
| logout.php | Logs the user out, destroys session, updates logout time in userlog. |
| admin.php | Admin dashboard with links to manage users and view login logs. |
| manage\_users.php | Displays a list of users with options to add, edit, or delete them. |
| add\_user.php | Form to add a new user to the system. |
| edit\_user.php | Form to update user details; resets failed attempts when status is set to active. |
| delete\_user.php | Deletes a user based on their ID. |
| view\_userlog.php | Displays all login/logout history from the userlog table. |
| main.php | Homepage for regular users after login  (final output of Task 3). |
| sql folder | Contains create\_user\_tables.sql and set\_initial\_users.sql |

# create\_tables.php

Tables are created by executing the create\_tables.php in the browser

Which will

* Execute the SQL and create the tables
* Trigger a download of the SQL file (create\_user\_tables.sql) after execution

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# setusers.php

Added Users (admin1 and user2) to the table with status active by executing setusers.php in browser which will

* Insert the two initial users
* Download a .sql file with the insert statements after the success message is shown

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# “user” Table Description

|  |  |  |
| --- | --- | --- |
| Column Name | Date Type | Description |
| id | INT (AUTO\_INCREMENT) | Unique primary key for each user. |
| userid | VARCHAR(50) | Unique username used for login. |
| password | VARCHAR(255) | Encrypted user password. |
| user\_type | ENUM('admin','user') | Specifies the role of the user. |
| user\_status | ENUM('active', 'inactive', 'revoked', 'deleted') | Current status of the user account. |
| first\_name | VARCHAR(100) | User’s first name. |
| last\_name | VARCHAR(100) | User’s last name. |
| email | VARCHAR(100) | User’s email address. |
| failed\_attempts | INT | Tracks number of failed login attempts. |
| created\_at | DATETIME | Timestamp when the user account was created. |
| updated\_at | DATETIME | Timestamp of last update to the user’s record. |

# “userlog” Table Description

|  |  |  |
| --- | --- | --- |
| Column Name | Date Type | Description |
| id | INT (AUTO\_INCREMENT) | Unique primary key for each login session. |
| userid | VARCHAR(50) | |  | | --- | | User ID of the person logging in. |  |  | | --- | |  | |
| login\_time | DATETIME | Timestamp when the user logged in. |
| logout\_time | DATETIME | Timestamp when the user logged out. |
| session\_id | |  | | --- | | VARCHAR(50) |  |  | | --- | |  | | PHP session ID associated with the login session. |

# Created the Login Form (login\_form.php)

This is the front-end where the user enters their credentials.

A computer screen shot of a program code

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# Created the Login Logic (login.php)

This file:

* Checks credentials
* Logs login in userlog
* Revokes account after 3 failed attempts
* Creates session

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# Created logout.php

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Also added logout button in main.php file above nav bar in <body> tag

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# Testing login\_form.php

Tried entering the wrong password then you can see “Invalid password. Attempt 1 of 3” on the screen in the next screenshot.

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Userlog table is updated.

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User not found error when there is no user found in the users table.

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When user attempts wrong password for more than 3 times, the users gets revoked.

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You can see the user2 is revoked, now to allow him to login admin need to update user2 status to active by using update action.

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Update user2 status to active to allow him to login again

## A screenshot of a computer AI-generated content may be incorrect.

Updated user2’s status to active

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If a user is in Inactive state or Revoked state he/she cannot login

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# For Admin Panel & User Management

I made:

* **admin.php** – main dashboard
* **manage\_users.php** – list all users
* **add\_user.php** – form to add a user
* **edit\_user.php** – form to update a user
* **delete\_user.php** – deletes a user
* **view\_userlog.php** – shows login/logout activity

All these pages are admin-only and use session-based login protection.

After sucessfull login of admin1

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When Manage Users is clicked

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When View Login Logs is clicked

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Adding a new user (user3)

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Here is the updated table with user3 added to it.

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Similarly I added user4🡪user and user5🡪admin as told in the document, and here is the final result after addition.

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Added a new user with ID 123 to test edit functionality

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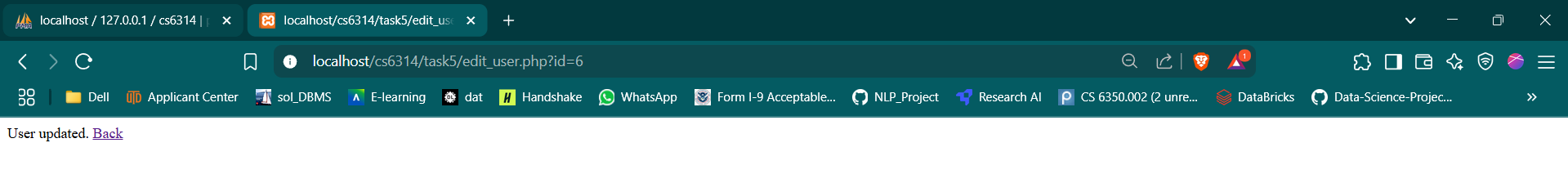
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When edit is clicked (in Actions column from the 6th row), we go to the update form page

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We can update all firlds except the UserID (Primary key) and click Update



Final table after updating

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When Delete is selected from the Actions column, the user gets deeted

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When Ok is clicked here, the user gets deleted



Final table after deletion

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Throughout every action the original table in the cs6314 database will also be updated

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Also when logout is clicked, we go back to login\_form.php

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# main.php

When we login as a User then we get redirected to main.php which is final php page made in task3 of Project part 1

Also I Updated the following in main.php

* A session-based access control at the top
* A div to display the logged-in user’s ID
* Provide a logout button

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Also I tried logging in as User5 who is admin and you can see the loging logs in both userlogs table and in view\_userlog.php page

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# Final xampp/htdocs/cs6341/task5 directory

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