CST 226-2 Web Application Development

Lesson 04: Working with Databases

Activity 09: Utilizing PDO for Database Operations

Instructions:

1. Design an HTML page as shown in Figure 1, allowing users to input information for user registration in a small web application.

First Name	
Last Name	
Username	
Password	
	Register

Figure 1: HTML page

- 2. After designing the HTML page, modify the HTML to send the user inputs to the "register.php" page.
- 3. Ensure that the password is not displayed as plain text. Implement appropriate techniques, such as using the password_hash function, to make it unreadable to humans.
- 4. The output generated by your PHP page should resemble Figure 2.

First Name: Test

Last Name: User

Username: test

Password: 202cb962ac59075b964b07152d234b70

Figure 2: PHP Page Output

- 5. Create the DbConnector class using PDO in an appropriate manner.
- 6. Create the necessary database structure as follows.

CREATE TABLE user (

id int(11) NOT NULL AUTO_INCREMENT,

firstname varchar(50) NOT NULL,

lastname varchar(50) NOT NULL,

```
username varchar(50) NOT NULL,
password text NOT NULL,
PRIMARY KEY (id)
);
```

- 7. Save the user inputs to the database using the prepared statement approach.
- 8. If the information is successfully saved to the database, display a message to the user saying "Successfully Saved."
- 9. If any errors occur during this process, inform the user with an "Error Occurred" message.
- 10. Add a few data to the database using the above interface.
- 11. Now, implement a "view.php" page to view the users already registered with the system.
- 12. Display users one by one, showing their first name, last name, and some specific actions as shown in Figure 3.

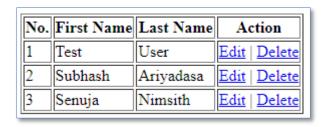


Figure 3: view.php Page Output

- 13. Once user clicks on this Edit action, "edit.php" page should load the specific user information in edit mode.
- 14. Once the edit is success, the updated information should be saved to the database.
- 15. If user click on Delete action, "delete.php" page should delete the specific user from the database.