Assignment 3 - PROG8850

# Overview

This document contains the screenshots and explanations for Assignment 3, which involves creating a Flask web application with MySQL integration and Selenium-based automation testing.

# Part 1: Web Application

The Flask application includes a login form that accepts a username and password and inserts the data into a MySQL database.

**• Screenshot 1:** Login form in the browser (<http://127.0.0.1:5000/login>)

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AI-generated content may be incorrect.

• **Screenshot 2:** Success message after submitting the login form

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AI-generated content may be incorrect.

# Part 2: Database Setup

The MySQL database is set up using a script which creates a database named 'prog8850db' and a table named 'users'.

The table contains columns for id (auto-increment), username, and password.

• **Screenshot 3:** MySQL CLI showing successful execution of db\_setup.sql

MySQL (showing prog8850db and users table creation).

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A screenshot of a computer program

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• **Screenshot 4**: SELECT \* FROM users; showing inserted record

This screenshot shows the newly inserted record (e.g., testuser1, password1 and Durlabh and Durlabh123).

A computer screen shot of a program

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# Part 3: Selenium Integration

A Selenium script was created to automate the login process and validate data insertion into the database.

• **Screenshot 5:** Terminal output from running test\_login.py showing successful test result.A screenshot of a computer

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**Screenshot 6:** After Run the Selenium Test the user is newly inserted record (e.g., testuser, testpass ).

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# Part 4: Submission & Notes

Technologies used:

- Python 3

- Flask

- MySQL

- Selenium WebDriver

- Google Chrome & ChromeDriver

Project files include:

- app.py

- templates/login.html

- db\_setup.sql

- test\_login.py

- README.md

- This Word document

GitHub Repository Link: <https://github.com/Durlabh8972/PROG8850-Assignment3>