

SIT 218/738: Secure coding

Pass task 5.1P: SQL injection (Part 1)(Updated)

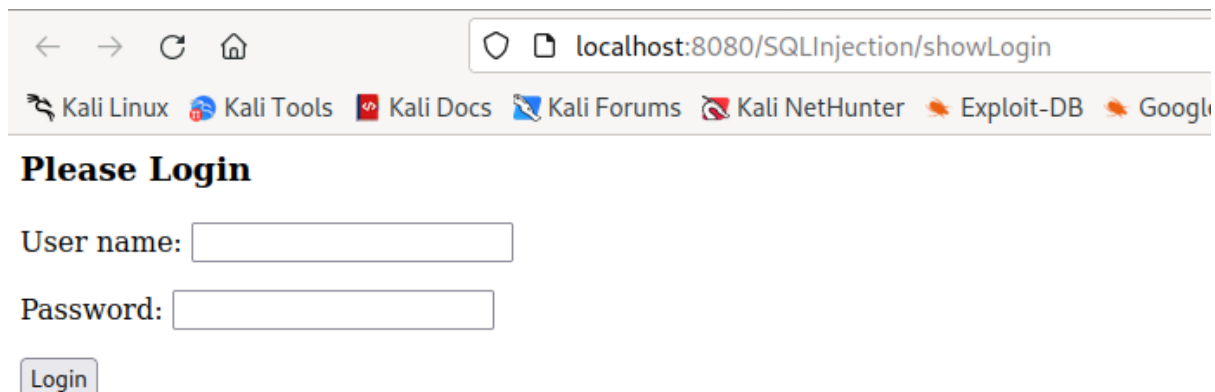
Note: Complete the steps provided in “**Ontrack Task5.1P Start Activity**” on CloudDeakin before completing this task.

Objective

In this task you will use the SQL injection technique to bypass the authentication mechanism used in a web application. You will also identify the reasons for this attack to be successful.

Overview

Task1: The SQLInjection webapp in the SIT218VM is vulnerable to SQL injection attacks. One of the users configured in the webapp has the username ‘Alice’. Craft a SQL injection code to bypass the authentication of the web app. You must continue from the steps given under the “**SQL injection test in webapp**” in the “Ontrack Task 5.1P Start activity” document and start the SQLInjection webapp in the SIT218VM.



← → ↻ 🏠 localhost:8080/SQLInjection/showLogin

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Please Login

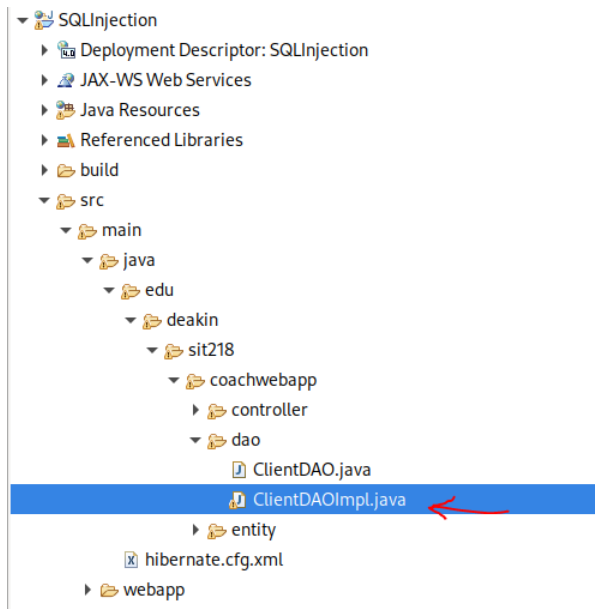
User name:

Password:

Login

Once the above page is loaded, try to bypass the authentication.

Task2: Highlight the vulnerable code in the functions **existsClient()** and **areCredentialsCorrect()** in **ClinetDAOImpl.java** file. Use the following screenshot to locate the vulnerable code file in the SQLInjection webapp in the SIT218VM.



Submission Requirements:

Submit one PDF file containing the following information:

1. The input SQL injection code which is used to bypass the authentication using an username 'Alice'.
2. Screenshot that shows a successful bypassing of authentication by the above SQL Injection attack (1).
3. The code in the webapp that is vulnerable and a brief explanation of this vulnerability.