**CIS 2640 – Lab 9**

**Analyzing Types of Web Application Attacks**

| **Your Name:** | Liliane Owens |
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| **Date:** | 4/2/2023 |

**Instructions**: Complete the tasks described in this worksheet. Read the instructions carefully and submit evidence of your completed tasks (a screen shot is your evidence). Answer the questions below in the space provided.

* **Showing Evidence of Completion:** Your evidence of completion is a screen shot, as described in each exercise. Use the tool of your choice to take a screen shot of the required content. ***Screen shots should be pasted at the end of this document.***
* **Answering Questions:** Your answers should be written in carefully edited college-level English, using complete sentences.

| **Lab – Analyzing Types of Web Application Attacks** | |
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| **Instructions and Evidence of Completion** | **Answer a Question** |
| At the end of the document (not in this table) paste a screen capture that shows:   1. The successful SQL Injection showing the complete user data base 2. The complete profile for user Larry Stooge 3. The DVWA tool showing the XSS attack.   ***Be sure your screen shot(s) include any command executed and the resulting output in clear / cropped screenshots.*** | Answer each of the questions below using the space to the right of the question. Be sure your answer is complete and correct. |
| **Question** | **Answer** |
| 1. In your own words explain why some web sites are vulnerable to SQL injection attacks. What causes this vulnerability? | Because they have been exposed to the user or attacker means they left a clue to the attacker, or used website code the cause of this vulnerability is not enforcing identifier length limits, not put a limit on website code that might allow the user to break a SQL statement. |
| 1. What two things must a web site do to make it vulnerable to an XSS attack? | If you allow a user to add their own code to the page, if you don’t validate your input. |
| 1. What are the primary differences between HTML and XML? | The difference between HTML and XML is that HTML displays data and describes the structure of a webpage, whereas the XML stores and transfers data.XML is a standard language which can define other computer languages, then HTML is a predefined language with its own implications. |
| 1. In your own words explain a buffer overflow. | It occurs when you try to exceed the size of your block memory, means you are putting more amount of data than the memory size. |

Put screenshots here:

1. The successful SQL Injection showing the complete user data base

![Table

Description automatically generated]()

1. The complete profile for user Larry Stooge

![Graphical user interface, table

Description automatically generated]()

1. The DVWA tool showing the XSS attack

![Graphical user interface, text, application

Description automatically generated]()