Project 3: Secure Coding Report

Your name

University of Maryland Global Campus

COP 640: Secure Coding

Instructor’s name

Due date

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The report should summarize the application the functionality of the code you developed that includes the following items:

* The top 10 web application security risks and a brief explanation of each
* A description of the frameworks and tools you will use in this development (e.g. Python Flask, Bandit)
* Screen Captures showing you successfully modified and tested the code running on the AWS server
  + Modifications should include adding one additional menu item and functionality of your choice to the application.
  + Describe each screen capture and how you added to the functionality of the code.
* Review the code looking for security flaws including SQL injection, and other possible vulnerabilities or design concerns.
* Screen captures showing you successfully pushed your application code to a Github repository
* Discuss possible future enhancement both in functionality and security. For example database authentication enhancement, separation of database and web server, the use of SSL certificates, 2 Factor authentication or other enhancements.

**Code Implementation Hints:**

Consider the following hints to get the code modified and tested on your AWS instance.

* Use this site for a description of how the original code was developed that includes details on what you might need to do to modify it or enhance the functionality (<https://www.digitalocean.com/community/tutorials/how-to-make-a-web-application-using-flask-in-python-3>)
* To test the code before you make any changes
  + Connect to the AWS instance with SSH
  + cd blog
  + -- Activate the environment
  + source my\_env/bin/activate
  + flask run --host=0.0.0.0
  + Go to the URL to test it:
  + <URL:5000>

Use CTRL+C to stop the Flask server.

**References**

<add your references below using the format examples shown as needed>

Author’s last name, Initial(s). (Year of publication). *Title of the book*. Publisher. https://doi.org/DOI

Author’s last name, Initial(s). (Year of publication). Title of the article. *Title of Journal*, *Volume*(Issue), Pages. https://doi.org/DOI

Author’s last name, Initial(s). (Year, Month Day of publication). *Title of the work*. Website. https://URL

Author’s last name, Initial(s). (Year of publication). Title of the article. *Newspaper*. https://URL

Last name, Initial(s). [Channel]. (Year, Month Day of publication). *Title of the video* [Video]. Website. https://URL

Organization. (Year of publication). Word. In *Dictionary*. Publisher. https://URL