

Instruction and Rubric for CYSE 250 Project

CYSE-250 Cybersecurity Programming and Networking

Total Points: 100

Learning Objective: The group project will provide you with the opportunity to demonstrate your understanding of the applied aspect of Python and socket programming in your concentration.

1. The group project will be related to the contents of this course. A group of maximum two students will develop and design their own project.
2. The group should **find a related topic to socket programming.**
3. To design the visual representation, you may choose general-purpose programming language Python.
4. You need to present your work during the lecture time
5. You need to write and submit a project report (**Maximum five-page, Font: Helvetica, Font size: 12, single line inter-line spacing, page-setup: 1 inch all sides, excluding front page**).

The report must include following sections:

- The problem statements.
 - The details about the hardware (your machine) and software (include version) used in the project.
 - Software used to implement the project
 - The results (Include screen shot of code and output) and discussions.
5. The internal documentation (i.e., comments) is required. You need to include Python code in your project report as an appendix. However, the appendix will not be counted in the number of pages of “Project Report”. It implies that appendix will have additional number of pages in the project report. Additionally, there is no restriction of number of pages for the appendix.
 6. Your code **MUST** include the following:
 - Loops
 - Functions
 - Lists and Dictionaries
 - Socket Programming
 7. You must submit your **report, presentation and code** on Canvas.

Grading Rubrics

(100 points) Written Report & Technical Contents.

- **(10 Points)** Report
- **(30 Points)** Presentation
- **(50 Points)** Correct code including socket programming, loops, functions, lists and dictionaries (*.py file).
- **(10 Points)** Level of complexity of the project.