Homework Assignment 3

This assignment is a writing assignment on DNS. Your essay should be a maximum of two pages since spaced using Times New Roman 12pt font. There is no minimum length to the essay, but you should thoroughly cover all the required topics. The target audience for this essay should be an ICS student who has not yet taken ICS 451. Your essay should explain the topics in an organized and easy to understand method.

- Required Topics
    - What is DNS and what is its purpose?
    - What are Resource Records?
    - Where are Resource Records stored?
    - What are A, AAAA, CNAME, MX, and NS Resource Records used for?
    - Compare the differences between a Root, TLD, and Authoritative DNS server.
    - What are the differences between an iterative and recursive DNS query?
    - Does DNS use TCP, UDP, or both as its transport layer protocol?
- Resources
    - Your primary resource for this assignment should be the textbook.
    - Do not use homework solution websites.
    - You are not allowed to collaborate with other classmates on this assignment.
    - If you have any questions on whether a source is acceptable to use, contact the TA.
- Expected file
    - A PDF document named "ics451_hw3_<UH Username>.pdf"
- Deadline
    - The deadline is set on the Laulima assignment page.
    - Late work is accepted up to 2 days late.
        - 10% deduction for 1 day late.
        - 25% deduction for 2 days late.
        - 2+ days late will receive a 0.