CMSC 421

Final Project Design

[Your Name Goes Here]

[Date this document was last modified goes here]

1. Introduction
   1. System Description

Give a brief (one paragraph) description of the project as it was assigned. You should not be describing your individual implementation in this first paragraph.

* 1. Kernel Modifications

List the files (and functions within files) that you modified as part of your implementation. Be sure to include the list of files that you added to the kernel as part of this list as well. For modified files, include a very brief description (single sentence per function modified) of what was modified in the file. You will be describing your changes more in-depth in a future section of this document. This section should essentially be formatted as a list.

1. Design Considerations
   1. Network Firewall

In this section, describe at a high level what your approach was to implementing the firewall portion of the assignment. This should include any considerations you made to how to store data, how to handle thread safety, and any other considerations you made in deciding how to implement the firewall code. Basically, describe your thought process here. This is not meant to be an in-depth description, but rather just laying the groundwork for what you did in implementing the system, and why you chose to do things in the way that you did. This section should be a few (two to four) paragraphs long.

* 1. File Access Control

This section is to be of the same format as the previous section, but about the file access control mechanism, rather than the firewall. Once again, this section should be about two to four paragraphs long.

1. System Design
   1. Network Firewall

Describe your implementation of the firewall portion of the assignment in-depth. The goal here is to give the reader enough information that he or she could implement the same system without having looked at your code. Here, you should dive down deeper into how the code is implemented, going as far as to describe exactly what changes you made to functions within the kernel and where those changes were made (and why they were made at the location you made them. This section should be of significant length, as this is where you will be describing the bulk of your design. Essentially, we’re looking for at least a page or so (single-spaced) description of how everything works in this section of the document.

* 1. File Access Control

This section is to be of the same format as the previous section, but about the file access control mechanism, rather than the firewall. It should also be of a similar length.

1. References

List any references you used in your assignment here. You do not have to list the Linux kernel source code files here (or this template), but you should list any web references or any other such things that you used in developing your assignment here. Please use a standard citation format (MLA or APA are fine) for your list of references.