**Project 1: Familiarity with UNIX/Linux**

Nolan Tuttle

College of Engineering and Technology, Grand Canyon University

CST-315: Operating Systems Lecture and Lab

Professor Citro

January 19, 2025

Choose five features and explain what (in your opinion) you think happens when you access them. For example, access the list of files in a folder. Try to explain what happens "behind the scenes" inside the operating system.

2.Use your own words and do not attempt to search for the answer on the internet. You will be evaluated based on your ability to explain what you think happens and NOT based on how correct you are.

3.Later in the class you will have the opportunity to revisit your explanation and assess how correct and accurate you actually were, with a greater deal of technical detail.

4.In addition, as preparation for subsequent projects, you are required to demonstrate readiness to write and run C programs in a Linux or UNIX environment. If you are using a Mac, you already have UNIX. If you are using a Windows PC, install a Linux distribution.

5.Use a UNIX/Linux text editor (*touch, vi, emacs*) to create a simple HellowWorld.c file. Compile and execute the simple HelloWorld.o program (see separate links to resources on Linux, UNIX, and C) using the C compiler included in your UNIX/Linux installation:

/\* Hello World program \*/

#include<stdio.h>

main()

{

printf("Hello World");

}

Then:

6.Test and valid the results (to include specific details and/or screenshots).

7.Create a directory called CST-315 and initialize it as your local Git repository.

8.Create a README file and type in a brief introduction of yourself.

9.Create a directory inside CST-315 called Assignment1.

10.Create and compile HelloWorld.c in the Assignment1 directory.

11.Commit the README file and Assignment1 directory and push them to the remote Git repository (using the account given to you by GCU).