UNIX/Linux Final Project

GitHub Repository: https://github.com/Cy-EF0510/Unix-Project

1. **Project Overview:** Provide a clear explanation of the project. What is the project about? What is its purpose?

   The project is about creating a menu that allows us to choose certain options. These options are used to gather or manipulate things, such as the system status, backup, network, services, user management, and file management.

2. **Project Requirements and Deliverables:** Outline the project requirements and specify the expected deliverables.
   The requirements of the project is to make our program are as follows:

   - Functionality, each function of the program must work as intended

   - Being user friendly: program must be easy to understand to users

   - Documentations: we must record and documentate what we did

3. **Task Assignment:** Include a table that clearly shows how tasks are assigned to each team member.

Cyril Efren Fabro	Audreane Deschenes	Mohamed Amine
GitHub Creation	User management	Network
System Status Function	File management	Services
Backup Function	Making it user-friendly	Making menu look good
Basic structure of the code	Added more options in the menus	

4. **Project Components and Solutions:** For each task, describe the main components of the project, the solutions implemented , and list the relevant commands or tools used.
   Main Menu:
   - Shows the main components of our program
   System status:
   - Allows us to do the following:
     - Show Memory Status:
     - Show CPU Temperature:
     - Show Active Processes:
     - Stop and Close Processes
   Backup:
   - Make a backup schedule
   - Show last backup process

Network:
- Show network cards, IP addresses, and default gateways
- Enable/Disable a network card
- Set an IP address on a network card
- Connect to a nearby wifi network

Services:
- Look at the current services
- Start/Stop a service

User Management:
- Add a user
- Give root permission to a user
- Delete a user
- Show active users
- Disconnect a user
- List of all groups of a user
- Change the user group

File Management:
- Path to a file in user's home directory
- 10 largest files in the user's home directory
- 10 oldest files in the user's home directory
- Send a file as an email attachment

5. **Detailed section for Each Part:** Create a dedicated section for each component or part of the project, discussing the details in depth