**Section A:**

Location: /bin/bash

show\_help() {

echo "Usage: internsctl [options]"

echo "Options:"

echo " --help Show help information"

echo " --version Show command version"

# Add more options and explanations as needed

}

show\_version() {

echo "internsctl version $version"

}

case "$1" in

--help)

show\_help

;;

--version)

show\_version

;;

\*)

echo "Invalid option. Use 'internsctl --help' for usage."

exit 1

;;

Esac

**Manual Page for internsctl (Save this as internsctl.1):**

.\" Manpage for internsctl

.TH internsctl 1 "19 Dec 2023" "v0.1.0" "internsctl manual"

.SH NAME

internsctl \- custom command for XYZ operations

.SH SYNOPSIS

.B internsctl

[\fIOPTION\fR]

.SH DESCRIPTION

This command performs XYZ operations for managing interns.

.SH OPTIONS

.TP

.BR \-\-help

Show help information and usage guidelines.

.TP

.BR \-\-version

Show command version.

.SH AUTHOR

Written by YourName.

.SH REPORTING BUGS

Report bugs to: your@email.com

.SH COPYRIGHT

Copyright \(co 2023 YourCompany.

This is free software: you are free to change and redistribute it.

There is NO WARRANTY, to the extent permitted by law.

.SH SEE ALSO

Online documentation at: <https://yourcompany.com/internsctl>

Ensure the script is executable (**chmod +x internsctl**) and placed in a directory within your **$PATH**, and the manual file (**internsctl.1**) is placed in the correct manual pages directory (usually **/usr/share/man/man1/**).

With this setup, **man internsctl** will display the manual page, **internsctl --help** will show the help information, and **internsctl --version** will display the command version.

**Section B**

**Part 1**

#!/bin/bash

version="v0.1.0"

cpu\_getinfo() {

lscpu

}

memory\_getinfo() {

free -h

}

show\_help() {

echo "Usage: internsctl [command] [options]"

echo "Commands:"

echo " cpu getinfo Get CPU information"

echo " memory getinfo Get memory information"

echo "Options:"

echo " --help Show help information"

echo " --version Show command version"

# Add more options and explanations as needed

}

show\_version() {

echo "internsctl version $version"

}

case "$1" in

cpu)

case "$2" in

getinfo)

cpu\_getinfo

;;

\*)

echo "Invalid cpu option. Use 'internsctl cpu getinfo' for CPU information."

exit 1

;;

esac

;;

memory)

case "$2" in

getinfo)

memory\_getinfo

;;

\*)

echo "Invalid memory option. Use 'internsctl memory getinfo' for memory information."

exit 1

;;

esac

;;

--help)

show\_help

;;

--version)

show\_version

;;

\*)

echo "Invalid option. Use 'internsctl --help' for usage."

exit 1

;;

Esac

**Part 2**

#!/bin/bash

version="v0.1.0"

create\_user() {

if [ -z "$1" ]; then

echo "Please provide a username."

exit 1

fi

sudo useradd -m -s /bin/bash "$1"

echo "User '$1' created successfully."

}

list\_users() {

cut -d: -f1 /etc/passwd

}

list\_sudo\_users() {

grep -Po '^sudo.+:\K.\*$' /etc/group | tr ',' '\n'

}

show\_help() {

echo "Usage: internsctl [command] [options]"

echo "Commands:"

echo " cpu getinfo Get CPU information"

echo " memory getinfo Get memory information"

echo " user create <username> Create a new user"

echo " user list List all regular users"

echo " user list --sudo-only List users with sudo permissions"

echo "Options:"

echo " --help Show help information"

echo " --version Show command version"

# Add more options and explanations as needed

}

show\_version() {

echo "internsctl version $version"

}

case "$1" in

cpu)

# ... (unchanged)

;;

memory)

# ... (unchanged)

;;

user)

case "$2" in

create)

create\_user "$3"

;;

list)

if [ "$3" == "--sudo-only" ]; then

list\_sudo\_users

else

list\_users

fi

;;

\*)

echo "Invalid user option. Use 'internsctl user create <username>', 'internsctl user list', or 'internsctl user list --sudo-only'."

exit 1

;;

esac

;;

--help)

show\_help

;;

--version)

show\_version

;;

\*)

echo "Invalid option. Use 'internsctl --help' for usage."

exit 1

;;

Esac

**Part 3**

**#!/bin/bash**

**version="v0.1.0"**

**get\_file\_info() {**

**if [ -z "$1" ]; then**

**echo "Please provide a file name."**

**exit 1**

**fi**

**file="$1"**

**if [ ! -f "$file" ]; then**

**echo "File '$file' does not exist."**

**exit 1**

**fi**

**if [ -z "$2" ]; then**

**echo "Please provide an option or use '--help' for usage."**

**exit 1**

**fi**

**case "$2" in**

**--size|-s)**

**stat -c %s "$file"**

**;;**

**--permissions|-p)**

**stat -c %A "$file"**

**;;**

**--owner|-o)**

**stat -c %U "$file"**

**;;**

**--last-modified|-m)**

**stat -c "%y" "$file"**

**;;**

**--help)**

**echo "Usage: internsctl file getinfo [options] <file-name>"**

**echo "Options:"**

**echo " --size, -s Print file size"**

**echo " --permissions, -p Print file permissions"**

**echo " --owner, -o Print file owner"**

**echo " --last-modified, -m Print last modified time"**

**;;**

**\*)**

**echo "Invalid option. Use '--help' for usage."**

**exit 1**

**;;**

**esac**

**}**

**show\_help() {**

**echo "Usage: internsctl [command] [options]"**

**echo "Commands:"**

**echo " cpu getinfo Get CPU information"**

**echo " memory getinfo Get memory information"**

**echo " user create <username> Create a new user"**

**echo " user list List all regular users"**

**echo " user list --sudo-only List users with sudo permissions"**

**echo " file getinfo [options] Get file information"**

**echo "Options:"**

**echo " --help Show help information"**

**echo " --version Show command version"**

**# Add more options and explanations as needed**

**}**

**show\_version() {**

**echo "internsctl version $version"**

**}**

**case "$1" in**

**cpu)**

**# ... (unchanged)**

**;;**

**memory)**

**# ... (unchanged)**

**;;**

**user)**

**# ... (unchanged)**

**;;**

**file)**

**shift**

**get\_file\_info "$@"**

**;;**

**--help)**

**show\_help**

**;;**

**--version)**

**show\_version**

**;;**

**\*)**

**echo "Invalid option. Use 'internsctl --help' for usage."**

**exit 1**

**;;**

**Esac**

**Make sure the script is executable (chmod +x internsctl) and then you can use commands like:**

* **internsctl file getinfo --size hello.txt to get the size of the file**
* **internsctl file getinfo --permissions hello.txt to get file permissions**
* **internsctl file getinfo --owner hello.txt to get the file owner**
* **internsctl file getinfo --last-modified hello.txt to get the last modified time of the file**