

OREO OS

User Manual | Version 1.0

Course Information

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- CS 450 Operating Systems Structure

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Introduction

Oreo OS is a software project that is responsible for Memory Protection Extension (MPX) featuring. The team handled designing a user interface to let the user communicate with the system via using virtual serial port and to let the user accomplish some basic tasks. In this module, Oreo OS will have a standalone interface that is responsible for the operation of file system.

Command Handler

The OREO OS starts the system by having a command handler that would make the user to type in the command they would like to run, and they can use help function in order to get some description on how to run as which shortcut to use and description of the function.

```
Welcome to Module 6 Interface
Please type a command:
>>help
```

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HELP

```
Welcome to Module 6 Interface

Please type a command:

>>help

HELP:
  type 'cd' to change directory.
  type 'help' to view help.
  type 'mv' to rename a file
  type 'pbs' to print boot sector
  type 'ls' to list directory
  type 'prd' to print root directory
  type 'type' for type command

>>
```

Print Boot Sector

Print Boot Sector can be launched by typing pbs in the command handler, its purpose is to validate whether the software is correctly accessing the boot sector information.

```
>pbs
Bytes per sector: 512
Sectores per Cluster:
number of reserved sectors : 1
number of FAT copies
                 root directory entries :
maximum number of
total # of
           secotrs in file system :
number of sectors per FAT : 9
sectors per track : 18
number of heads :
total sector count for FAT32 : 0
boot signature : 41
volume ID: 236391907
volume label : CS450_2
File system type: FAT12
```

Print Root Directory

Print Root Directory can be launched by typing prd in the command handler, its purpose is to list all of the files and directories contained within the root directory.

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Change Directory

Change Directory can be launched by typing cd in the command handler, its purpose is to change the current directory. The current directory will be the root directory.

```
Welcome to Module 6 Interface

Please type a command:
>>cd SUBDIR
SUBDIR
Olirectory changed.
>>
```

List Directory

List Directory can be launched by typing Is in the command handler, its purpose is to print the entire contents of the current directory.

```
Do you want to specify a file name or
Printing current directory
Name: CS450_2
Extension:
  rst Logical Cluster: 0
 ile sizē: 0
Name: 1984
              TXT
 xtension:
 irst Logical Cluster:
     size: 598367
Name: WVU
               JPG
xtension:
           .JPG
 irst Logical Cluster:
                        1282
           244721
Name: SUBDIR
Extension:
  st Logical Cluster:
  le size: 0
```



Type

Type can be launched by typing type in the command handler, its purpose is to print the contents of the file with their extensions.

```
PART ONE

Chapter 1

It was a bright cold day in April, and the clocks were striking thirteen. Winston Smith, his chin nuzzled into his breast in an effort to escape the vile wind, slipped quickly through the glass doors of Victory Mansions, though not quickly enough to prevent a swirl of gritty dust from entering along with him.

The hallway smelt of boiled cabbage and old rag mats. At one end of it a coloured poster, too large for indoor display, had been tacked to the wall. It depicted simply an enormous face, more than a metre wide: the face of a man of about forty-five, with a heavy black moustache and ruggedly handsome features. Winston made for the stairs. It was no use trying the lift. Even at the best of times it was seldom working, and at present the electric current was cut off during daylight hours. It was part of the economy drive in preparation for Hate Week. The flat was seven flights up, and Winston,
```

Rename

Rename can be launched by typing mv in the command handler, its purpose is to rename a file or a directory. User input will include the new and the old filename.

```
Welcome to Module 6 Interface

Please type a command:

>>mv

What is the name of the file you want to change?1984

What is the new name you'd like to change it to?cs

>>
```