# {nexTTeam} mpx module 1

User Manual

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**{teaMMembers}**

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## Overview

Welcome to the Next Team Operating System (NTOS)! *Module One* introduces several essential features accessed through a menu-driven interface. This step in the NTOS development provides

- Date tools (Set Date/ Get Date)
- Time tools (Set Time/ Get Time)
- Help Info (Help)
- Version info (Version)
- (Shutdown)

The functionality provided with these features forms *NTOS Module One*. Use this manual to guide you through your first use! The next section addresses how to begin.

## Beginning

This section outlines how to boot NTOS and what to do upon booting, whenever the user is not yet doing anything.

**To Boot:**

In a Linux environment, the user opens the terminal and changes the directory to where NTOS is stored. The user enters

```
$ Make
```

Then enters

```
$ qemu-system-i386 –nographic –kernel kernel.bin -s
```

The user is now running NTOS

**The Menu:**

Upon booting, the screen is blank. The user is able to enter commands at the top of the screen. If, at any point, the user is unsure of what options are available to them, they may either enter

```
Help
```

Which will display a list of menu options, or they may refer to this manual. Whenever the user is ready to do something, they may enter a command of their choice.

# Version

This section explains the use of the command "version." To begin, the user enters

`version`

This command returns the following:

`VERSION: 1.0`

This indicates that *NTOS Module One* is currently the version of NTOS in use.

# Date

This section explains the NTOS functionalities for setting and getting the system's date.

**To Set the Date:**

Setting the date changes the machine's stored value for the current date. To begin setting the date, the user must enter

`setDate`

The user will then be prompted with the following message:

`Enter date: mm/dd/yy`

Beneath that, the user will enter the date in the format described by the prompt. For example, if the date to be entered is August 11th, 2019, the user will enter

`08/11/19`

If the user enters something in a format different than this, then nothing will happen and the user will be returned to the menu. If the correct format is used AND the date is valid, then the user will have set a new system date. The user will be returned to the menu.

**To Get the Date:**

Getting the date lets the user see what value the machine has stored for the date. To begin getting the date, the user must enter

`getDate`

The system will then return the date in the following format:

```
mm/dd/yy
```

For example, if the stored values signified October 8th, 2006, the following would be returned:

```
11/08/06
```

The user will then be returned to the menu.

# Time

This section explains the NTOS functionalities for setting and getting the system's time.

**To Set the Time:**

Setting the time changes the machine's stored value for the current time. To begin setting the time, the user must enter

```
setTime
```

The user will then be prompted with the following message:

```
Enter time: hh:mm:ss
```

Beneath that, the user will enter the time in the format described by the prompt (in military time). For example, if the time to be entered is 2:36 PM and 7 seconds, the user will enter

```
14:36:07
```

If the user enters something in a format different than this, then nothing will happen and the user will be returned to the menu. If the correct format is used AND the time is valid, then the user will have set a new system time. The user will be returned to the menu.

**To Get the Time:**

Getting the time lets the user see what value the machine has stored for the time. To begin getting the time, the user must enter

```
getTime
```

The system will then return the time in the following format:

```
hh/mm/ss
```

For example, if the stored values signified 7:00 AM and 46 seconds, the following would be returned:

```
07:00:46
```

The user will then be returned to the menu.

## Shutdown

This section explains how to shutdown NTOS. To begin, the user will enter

```
shutdown
```

The user will then be prompted with

```
Are you sure you want to shut down? yes/no
```

If the user enters `yes`, the system will then shut down. If the user enters `no`, the user will be returned to the menu. If the user enters something elser, the machine will prompt the user to

```
Please enter the word 'yes' or 'no'.
```

The user may then try entering `yes` or `no` again.

## Help

This section explains the use of the command "help." To begin, the user enters

```
help
```

The user will then see

```
NAME
      version - display current version of NTOS in use.
DETAIL DESCRIPTION
      No further description

NAME
      getTime - display current time of system.
DETAIL DESCRIPTION
      Time will be displayed as hour:minute:second.
```

NAME

     setTime - change system's current time.

DETAIL DESCRIPTION

     Will prompt user to enter time as hh:mm:ss (i.e. hour:minute:second).

NAME

     getDate - display current date of system.

DETAIL DESCRIPTION

     Date will be displayed as month/day/year.

NAME

     setDate - change system's current date.

DETAIL DESCRIPTION

     Will prompt user to enter date as mm/dd/yy (i.e. month/day/year).

NAME

     Shutdown - shuts down NTOS.

DETAIL DESCRIPTION

     Will prompt user to confirm system shut down as yes/no.