# **README**

### Directory/Files Details:

File/Folder name	Description
custom_ipc	This directory has source code and supporting files.
Design_Document_CS551_P2_ Group8	This document has design details, program flow chart, exception handling.
Test_Case_Document_CS551_P 2_Group8	This Document contains Test case details and their output.
Vm file link	Download vm file and import into VMware virtual machine from the below link

## MINIMUM OS & COMPILER REQUIREMENTS:

Minix Version: Minix 3.2.1.

Compiler: Clang

### SETTING UP MINIX FOR IPC

- Boot Image
  - 1. Copy the files in Minix 3.2.1 boot image to /boot/minix/3.2.1r17 folder in your minix machine.
- ➤ Manually copy all the files and build as follows
  - 1. Start Minix and copy the contents of our source code to /root/custom\_ipc directory.
  - 2. Change directory to /root/custom ipc/

cd /root/custom\_ipc/ cd /root/custom\_ipc/

Copy below files to respective directories callnr.h --> /usr/src/include/minix/

### cp callnr.h /usr/src/include/minix/

table.c,proto.h,misc.c,main.c,topic.h,topic.c --> /usr/src/servers/pm/

```
cp table.c /usr/src/servers/pm/
cp proto.h /usr/src/servers/pm/
cp misc.c /usr/src/servers/pm/
cp main.c /usr/src/servers/pm/
cp topic.c /usr/src/servers/pm/
cp topic.h /usr/src/servers/pm/
```

- 4. Navigate to /usr/src/servers/pm/ and open Makefile. Insert "topic.c" at the end for SRCS.
- 5. Compile the changed system files

```
cd /usr/src/servers/pm/
make
```

- Now copy user program header file to /usr/include/ cd /root/custom\_ipc/ cp user\_ipc.h /usr/include/
- 7. Compile all system files by navigating to /usr/src/releasetools and reboot to see the changes in effect

```
cd /usr/src/releasetools

make install
reboot
```

8. After reboot, copy the user program to the root and compile it.

```
cd /root/custom_ipc/
cp user_ipc.c /root
cd /root
cc user_ipc.c -o myipc
```

9. Execute the user program output file to test the program



10. After executing user should be seeing the below screen

