

# Software requirements specification

## Introduction

### Purpose

Firewall for management process in linux.

### Project scope

Study new technology, work in command, gaining experience working driver and UI.

## Overall Description

### Product features

- Exist black list for pocesses
- Exist process list
- Add to black list
- Remove from blacklist
- Add not running processes blacklisted by name
- Kill process
- Display information about the selected process in the process list.

### User documentation

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## System features

- *File **AFFL\_black\_list*** : File which contains the list of processes should be added to the blacklist.
- *File **AFFL\_command***: File for communication between UI and driver.
- *Add to black list*: Adds the selected user from the user program to process the file that should be stored blacklist.
- *Remove from blacklist*: Removes the selected user from the user program, the process of the file that should be stored blacklist.
- *Add not running processes blacklisted by name*: Adds the path of the executable is not running, the file in the file for the blacklist.
- *Kill process*: Kill the process selected by the user from the list of all running processes.
- *Display information about the selected process in the process list*: Displays information about the selected process.

## External interface requirements

### User interfaces

The program uses the UI. There are two forms.

In the first form:

- Field which displays a list of all processes.
- Field that displays the list of blocked processes (blacklist).
- Field that displays information about the selected process.

5 buttons:

- Button that updates the list of processes.

- Button that adds the selected process in the blacklist.
- Button that removes the selected process from the blacklist.
- Button that completes the selected process.
- Button which causes the second form.

The second form:

- Input field to enter the path to the executable file name.
- Button to add a name to the process blacklist.

### **Communication interfaces**

Communication between the user program and the driver made, using files  
(Describe the option / command) (see System features)

### **Limitations**

The program must be run as root.

Setting the path to the file, not the name of the process

OS Linux (kubuntu 13.10, ubuntu 13.10, lubuntu 13.10). Kernel version 3.11.