**IPC Application User Manual**

Version 1.0

Author: Nimeshika Ranasinghe

Date: 2022/10/25

Description:

This program is used for inter-processes communication between applications inside the same machine that does the following task.

* Application A (MonitorChanges) monitors the changes to a file that contains surrounding Wireless APs in JSON format and informs application B
* Application B (DisplayChanges) is responsible for displaying the changes that are one to the JSON file.

Prerequisites:

1. Python3 should be configured in the server.

sudo apt-get install python3.6

Run:

1. Download the application from git

<https://github.com/nimeshikaranasinghe/IPC_Coding-Exercise.git>

1. Go inside the app folder

cd Connect-Applications-Nimeshika

1. Configure ‘File\_Configs.ini’ file with the correct details
2. Run ‘DisplayChanges.py’ script in the background

python3 DisplayChanges.py &

1. Run ‘MonitorChanges.py’ to get the terminal output of the changes

python3 MonitorChanges.py

Configuration file

**Connect-Applications-Nimeshika/src/** **File\_Configs.ini’**

* ‘CHECK\_FILE\_DETAILS’ section
  + ‘file\_name’ – Wireless APs in JSON file’s name. If the file is a separate location specify the absolute file path
  + ‘read\_wait\_time’ – How much time do you need to wait until the next JSON check
* ‘CONNECTION\_DETIALS’ section
  + ‘hostname’ – Hostname of the server
  + ‘port’ - Port number that is used to do the communication
* ‘PATHS’ section
  + ‘log\_path’ = Define the logs folder

Text

Description automatically generated