USER MANUAL

This program reads sensor readings for different timestamps and performs a sensor fusion algorithm to get a reliable reading. The code architecture as shown above consists of a three main parts. One part reads the data from a .csv file and formats them to process for fusion. sensorValueRead() reads data from the .csv file, getdata() parses and tokenizes each line read from the file and fillarray() fills the sensor values in a 2-D array with each row containing sensor values for each timestamp.

The second part is the Sensor fusion algorithm. The fusion algorithm is run on a set of sensor values for a particular timestamp. This algorithm is called in the main.c to run for each timestamp provided in the input file.

The third part is the main.c which calls all the functions in order to get the faulty sensors, fusion value and produce output in a file.

The input sensor data for the software should be in the .csv format as follows:

timestamp, sensor name (eg. sens1), sensor value

The files and functions structure is given as follows: