

Home Security GUI

This is a Graphic User Interface for a home security system written in java, using the Processing IDE. It was written as a second version to a Junior year project (Fall 2018). It contains a button class library in charge of creating the buttons depending on the parameters passed. The security feature has the option to set up and deactivate an alarm with a passcode, which is stored and checked in the code (eventually to be out in a json file). The date/time receives the time and date from the system running the program. A temperature feature that will receive and display data from a serial connected microcontroller, measuring temperature fluctuation from an ADC channel. The weather option will call a weather API to gather the climate conditions and display it to the user. In settings the option to change some features of the system will be available.

Most of the features are in place but some are still in progress.

The GUI was implemented and continue to be developed on and for a raspberry pi, due to its size and availability.

I intend to add external controls for appliances via relays controlled through the pi's GPIO pins.

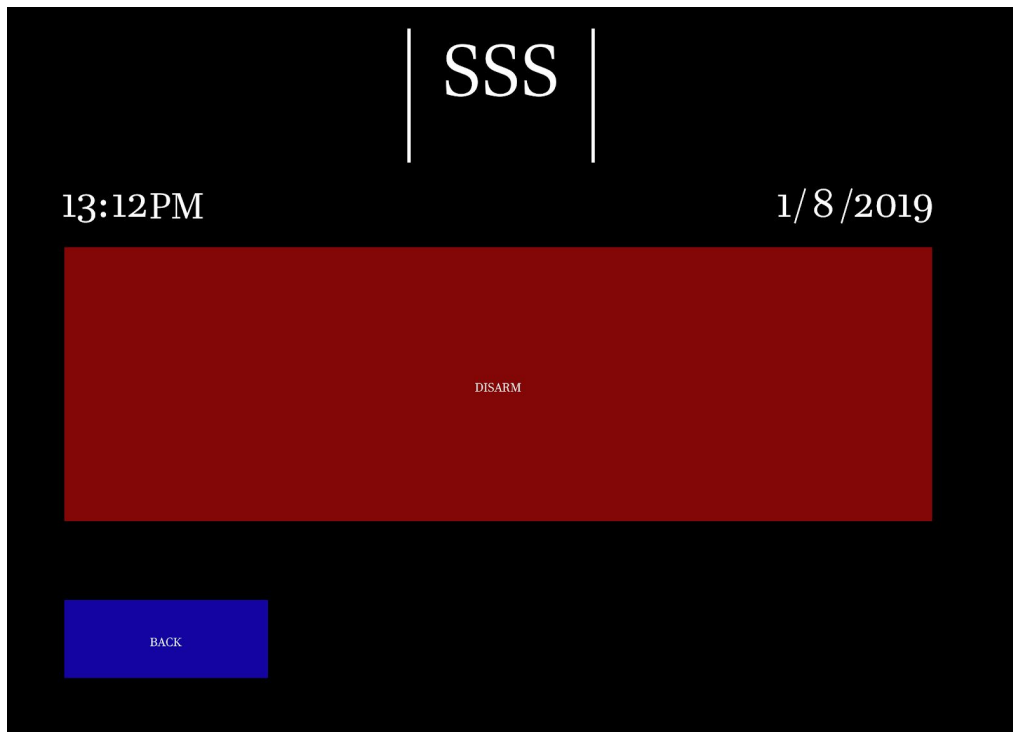


View of main GUI page (root).

Security features two options to control the systems alarm, stay or leave home.



Disarm Alarm window.



PIN Window

SSS

12:59PM

1/8/2019

BACK

1	2	3
4	5	6
7	8	9
CLEAR	0	ENTER