SmartPets

Generated by Doxygen 1.8.15

1 SmartPets 1

2 Data Structure Index 3

2.1 Data Structures . . . 3

3 Data Structure Documentation 5

3.1 Bargraph Struct Reference . . . 5

3.1.1 Detailed Description . . . 5

3.2 Button Struct Reference . . . 5

3.2.1 Detailed Description . . . 6

3.3 Clock Struct Reference . . . 6

3.3.1 Detailed Description . . . 6

3.4 Functionality Struct Reference . . . 6

3.4.1 Detailed Description . . . 7

3.5 Program Struct Reference . . . 7

3.5.1 Detailed Description . . . 7

3.6 ScreenLabel Struct Reference . . . 7

3.6.1 Detailed Description . . . 7

Index 9

Chapter 1

SmartPets

Control system for a smart hamster cage

Chapter 2

Data Structure Index

2.1 Data Structures

Here are the data structures with brief descriptions:

Bargraph 5
Button 5
Clock 6
Functionality 6
Program 7
ScreenLabel 7

Chapter 3

Data Structure Documentation

3.1 Bargraph Struct Reference

`#include <GUI_Utility.h>`

Data Fields

- unsigned short **posX**
- unsigned short **posY**
- unsigned short **width**
- unsigned short **height**
- unsigned short **background**
- char * **label**

3.1.1 Detailed Description

This struct contains properties related to a BARGRAPH

The documentation for this struct was generated from the following file:

- GUI_Utility.h

3.2 Button Struct Reference

`#include <GUI_Utility.h>`

Data Fields

- unsigned short **posX**
- unsigned short **posY**
- unsigned short **width**
- unsigned short **height**
- char * **label**
- char **navigation**
- Functionality * **funtionality**

3.2.1 Detailed Description

This struct contains properties related to a BUTTON

The documentation for this struct was generated from the following file:

- GUI_Utility.h

3.3 Clock Struct Reference

`#include <GUI_Utility.h>`

Data Fields

- unsigned short **posX**
- unsigned short **posY**
- unsigned short **hour**
- unsigned short **minute**
- unsigned short **second**
- unsigned char **programRunning**
- unsigned short **tic**
- unsigned short **toc**
- unsigned int **elapsed_t**

3.3.1 Detailed Description

This struct contains properties related to a CLOCK

The documentation for this struct was generated from the following file:

- GUI_Utility.h

3.4 Functionality Struct Reference

`#include <GUI_Utility.h>`

Data Fields

- unsigned char **pin**
- GPIO_TypeDef * **base**
- unsigned char **state**
- unsigned char * **type**

3.4.1 Detailed Description

This struct contains properties related to a FUNCTIONALITY of a BUTTON

The documentation for this struct was generated from the following file:

- GUI_Utility.h

3.5 Program Struct Reference

`#include <GUI_Utility.h>`

Data Fields

- unsigned short **hour**
- unsigned short **minute**
- unsigned char **programRunning**
- GPIO_InitTypeDef ∗∗ **pin**

3.5.1 Detailed Description

This struct contains properties related to a PROGRAM (Day, Night, Play)

The documentation for this struct was generated from the following file:

- GUI_Utility.h

3.6 ScreenLabel Struct Reference

`#include <GUI_Utility.h>`

Data Fields

- unsigned short **posX**
- unsigned short **posY**
- char ∗ **name**

3.6.1 Detailed Description

This struct contains properties related to a SCREEN LABLE

The documentation for this struct was generated from the following file:

- GUI_Utility.h

Index

Bargraph, 5
Button, 5

Clock, 6

Functionality, 6

Program, 7

ScreenLabel, 7