Fitness App

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7.14 /home/jamie/java/forms_project/src/lib/data/Activity_Level.java File Reference
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7.24 /home/jamie/java/forms_project/src/lib/data/Steps.java File Reference
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7.26 /home/jamie/java/forms_project/src/lib/data/UserData_Tools.java File Reference
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7.28 /home/jamie/java/forms_project/src/lib/data/Weight.java File Reference
7.29 /home/jamie/java/forms_project/src/lib/file_io/UserData_File.java File Reference
7.30 /home/jamie/java/forms_project/src/lib/file_io/UserList.java File Reference
7.31 /home/jamie/java/forms_project/src/lib/gui/driver/FormProjectDriver.java File Reference 297
7.32 /home/jamie/java/forms_project/src/lib/gui/gui/BaseScene.java File Reference
7.33 /home/jamie/java/forms_project/src/lib/gui/EighthScene.java File Reference
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7.38 /home/jamie/java/forms_project/src/lib/gui/SeventhScene.java File Reference
7.39 /home/jamie/java/forms_project/src/lib/gui/SixthScene.java File Reference
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	7.56 /home/jamie/java/forms_project/src/lib/menu/Fitness.java File Reference	304
	7.57 /home/jamie/java/forms_project/src/lib/menu/Home.java File Reference	304
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	7.59 /home/jamie/java/forms_project/src/lib/menu/Main.java File Reference	304
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# Namespace Index

## 1.1 Packages

Here are the packages with brief descriptions (if available):

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er	
io	
dlers	
u	
cts	
5	

2 Namespace Index

# **Hierarchical Index**

## 2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

gui.BaseScene
gui.EighthScene
gui.FifthScene
gui.FirstScene
gui.FourthScene
gui.SecondScene
gui.SeventhScene
gui.SixthScene
gui.ThirdScene
tests.dataTest
tests.file_ioTest
menu.Main
menu.Menu_Abstract
menu.Editor
menu.Editor_Abstract
menu.Editor_Get
menu.Editor_Set
menu.Fitness
menu.Home
menu.Lifting_Stats
menu.User_Select
menu.Menu_Entry
menu.Profiler
structs.Struct
calc.Calc_Abstract
calc.Basal_Metabolic
calc.BMI
calc.Display_Caloric
calc.FFMI
calc.Lifting_Abstract
calc.Barbell_Curl
calc.Bench_Press
calc.Deadlift
calc.Shoulder_Press

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data.BF	37
data.Height	145
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structs.SInt	203
data.Lifts	165
data.Benches	34
data.Deadlifts	92
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data.Resting BPM	185
data.Steps	223
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handlers.BtnBack1Handler	
handlers.BtnBackHandler	
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handlers.BtnTWeightHandler	
handlers.BtnUpdateHandler	
handlers.BtnViewHandler	71

# **Class Index**

### 3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

data.Activity_Level
The class that holds Activity_Level data
calc.Barbell_Curl
calc.Basal_Metabolic
Calculates and returns Basal Metabolic values
gui.BaseScene
calc.Bench_Press
data.Benches
The class that holds Benches data
data.BF
The class that holds BF data
calc.BMI
Calculates and returns BMI values
handlers.BtnBack1Handler
handlers.BtnBackHandler
handlers.BtnLoginHandler
handlers.BtnNewUserHandler
handlers.BtnQuitHandler
handlers.BtnStartHandler
handlers.BtnTLiftHandler
handlers.BtnTrackHandler
handlers.BtnTWeightHandler
handlers.BtnUpdateHandler
handlers.BtnViewHandler
calc.Calc_Abstract
Contains abstract methods to calculate and return calculations
tests.dataTest
calc.Deadlift
data.Deadlifts
The class that holds Deadlifts data
calc.Display_Caloric
Calculates and returns Display Caloric values
menu.Editor
The main menu for choosing either to get values or set values in the main program

6 Class Index

menu.Editor_Abstract	
This class extends the abstract class Menu_Abstract, which provides the structure for editing and viewing the #UserData	102
menu.Editor_Get	400
Class that provides a User Interface to Editor_Abstract, specifically to get values menu.Editor_Set	106
	109
gui.EighthScene	114
Calculates and returns FFMI values	117
gui.FifthScene	120
	123
	126
menu.Fitness	0
The Menu Interface for the Fitness class	129
driver.FormProjectDriver	134
gui.FourthScene	138
data.Gender	
	141
data.Height	4.45
The class that holds Height data	145
The Home Menu interface	147
data.Info	147
The class that holds the user's Info	152
calc.Lifting_Abstract	
Calculates and returns Lifting Stats values	154
menu.Lifting_Stats	161
data.Lifts	
The abstract class that defines the lifts, using also the Weight class as an object	165
menu.Main The main class that runs the TUI	170
menu.Menu Abstract	170
The template class that provides the skeleton menu interface	171
menu.Menu_Entry	
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menu.Profiler	183
data.Resting_BPM	185
structs.SDouble	
The class that holds Double-typed data	187
gui.SecondScene	194
gui.SeventhScene	197 200
calc.Shoulder_Press	200
The class that holds Integer-typed data	203
gui.SixthScene	208
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data.Squats	214
structs.SString	
The class that holds String-typed data	216
data.Steps	223
structs.Struct	005
Provides the foundational DataType and primitive methods for all various inputs	225
gui.ThirdScene	238 241
data.UserData	245
calc.UserData Calc	0
Class that stores all results of the calculations	255

3.1 Class List 7

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data.UserDataIndex	 277
file_io.UserList	 280
calc.VO2_Max	
Calculates and returns VO2 Max values	 281
data Weight	286

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# File Index

## 4.1 File List

Here is a list of all files with brief descriptions:

/home/jamie/java/forms_project/src/lib/calc/Barbell_Curl.java
/home/jamie/java/forms_project/src/lib/calc/Basal_Metabolic.java
/home/jamie/java/forms_project/src/lib/calc/Bench_Press.java
/home/jamie/java/forms_project/src/lib/calc/BMI.java
/home/jamie/java/forms_project/src/lib/calc/Calc_Abstract.java
/home/jamie/java/forms_project/src/lib/calc/Deadlift.java
/home/jamie/java/forms_project/src/lib/calc/Display_Caloric.java
/home/jamie/java/forms_project/src/lib/calc/FFMI.java
/home/jamie/java/forms_project/src/lib/calc/Lifting_Abstract.java
/home/jamie/java/forms_project/src/lib/calc/Shoulder_Press.java
/home/jamie/java/forms_project/src/lib/calc/Squat.java
/home/jamie/java/forms_project/src/lib/calc/UserData_Calc.java
/home/jamie/java/forms_project/src/lib/calc/VO2_Max.java
/home/jamie/java/forms_project/src/lib/data/Activity_Level.java
/home/jamie/java/forms_project/src/lib/data/Benches.java
/home/jamie/java/forms_project/src/lib/data/BF.java
/home/jamie/java/forms_project/src/lib/data/Deadlifts.java
/home/jamie/java/forms_project/src/lib/data/Gender.java
/home/jamie/java/forms_project/src/lib/data/Height.java
/home/jamie/java/forms_project/src/lib/data/Info.java
/home/jamie/java/forms_project/src/lib/data/Lifts.java
/home/jamie/java/forms_project/src/lib/data/Resting_BPM.java
/home/jamie/java/forms_project/src/lib/data/Squats.java
/home/jamie/java/forms_project/src/lib/data/Steps.java
/home/jamie/java/forms_project/src/lib/data/UserData.java
/home/jamie/java/forms_project/src/lib/data/UserData_Tools.java
/home/jamie/java/forms_project/src/lib/data/UserDataIndex.java
/home/jamie/java/forms_project/src/lib/data/Weight.java
/home/jamie/java/forms_project/src/lib/file_io/UserData_File.java
/home/jamie/java/forms_project/src/lib/file_io/UserList.java
/home/jamie/java/forms_project/src/lib/gui/driver/FormProjectDriver.java
/home/jamie/java/forms_project/src/lib/gui/gui/BaseScene.java
/home/jamie/java/forms_project/src/lib/gui/gui/EighthScene.java
/home/jamie/java/forms_project/src/lib/gui/gui/FifthScene.java
/home/jamie/java/forms_project/src/lib/qui/qui/FirstScene.java

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# **Namespace Documentation**

### 5.1 Package calc

#### **Classes**

- · class Barbell\_Curl
- class Basal\_Metabolic

Calculates and returns Basal Metabolic values.

- class Bench\_Press
- class BMI

Calculates and returns BMI values.

class Calc\_Abstract

Contains abstract methods to calculate and return calculations.

- · class Deadlift
- class Display\_Caloric

Calculates and returns Display Caloric values.

class FFMI

Calculates and returns FFMI values.

class Lifting\_Abstract

Calculates and returns Lifting Stats values.

- · class Shoulder\_Press
- class Squat
- class UserData\_Calc

Class that stores all results of the calculations.

class VO2\_Max

Calculates and returns VO2 Max values.

### 5.2 Package data

#### **Classes**

· class Activity\_Level

The class that holds Activity\_Level data.

• class Benches

The class that holds Benches data.

· class BF

The class that holds BF data.

class Deadlifts

The class that holds Deadlifts data.

· class Gender

The class that holds the user's Gender.

· class Height

The class that holds Height data.

· class Info

The class that holds the user's Info.

· class Lifts

The abstract class that defines the lifts, using also the Weight class as an object.

- class Resting\_BPM
- class Squats
- class Steps
- class UserData
- class UserData\_Tools
- enum UserDataIndex
- · class Weight

### 5.3 Package driver

#### **Classes**

· class FormProjectDriver

### 5.4 Package file\_io

#### **Classes**

- class UserData\_File
- · class UserList

### 5.5 Package gui

#### Classes

- class BaseScene
- class EighthScene
- · class FifthScene
- class FirstScene
- class FourthScene
- class SecondScene
- class SeventhScene
- class SixthScene
- class ThirdScene

5.6 Package handlers

### 5.6 Package handlers

#### **Classes**

- · class BtnBack1Handler
- · class BtnBackHandler
- · class BtnLoginHandler
- · class BtnNewUserHandler
- · class BtnQuitHandler
- · class BtnStartHandler
- · class BtnTLiftHandler
- · class BtnTrackHandler
- · class BtnTWeightHandler
- class BtnUpdateHandler
- class BtnViewHandler

### 5.7 Package menu

#### **Classes**

· class Editor

The main menu for choosing either to get values or set values in the main program.

· class Editor\_Abstract

This class extends the abstract class Menu\_Abstract, which provides the structure for editing and viewing the #← UserData.

class Editor\_Get

Class that provides a User Interface to Editor\_Abstract, specifically to get values.

class Editor\_Set

Class that creates a Menu user interface to edit any #UserData values.

class Fitness

The Menu Interface for the Fitness class.

· class Home

The Home Menu interface.

- class Lifting\_Stats
- · class Main

The main class that runs the TUI.

· class Menu\_Abstract

The template class that provides the skeleton menu interface.

class Menu\_Entry

Class that provides the entry data structure.

- class Profiler
- class User\_Select

## 5.8 Package structs

#### Classes

• class SDouble

The class that holds Double-typed data.

class SInt

The class that holds Integer-typed data.

· class SString

The class that holds String-typed data.

class Struct

Provides the foundational DataType and primitive methods for all various inputs.

## 5.9 Package tests

#### **Classes**

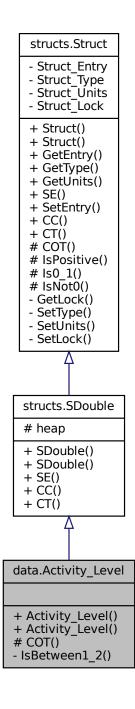
- class dataTest
- class file\_ioTest

**Class Documentation** 

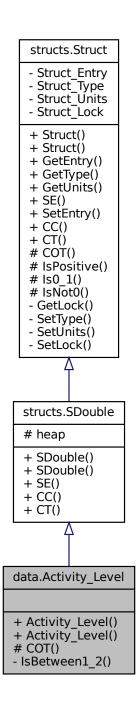
6.1 data.Activity\_Level Class Reference

16 Class Documentation

Inheritance diagram for data. Activity\_Level:



Collaboration diagram for data. Activity\_Level:



### **Public Member Functions**

• Activity\_Level ()

Constructor with a null value.

• Activity\_Level (double o)

Constructor with a defined value.

#### **Protected Member Functions**

• boolean COT (Object o)

Provides a method to return whether the object's type is valid to be inputted into.

## **Private Member Functions**

• boolean IsBetween1\_2 (double o)

#### **Additional Inherited Members**

## 6.1.1 Detailed Description

The class that holds Activity\_Level data.

## 6.1.2 Constructor & Destructor Documentation

#### 6.1.2.1 Activity\_Level() [1/2]

```
data.Activity_Level.Activity_Level ( )
```

Constructor with a null value.

## 6.1.2.2 Activity\_Level() [2/2]

```
data.Activity_Level.Activity_Level ( double o )
```

Constructor with a defined value.

**Parameters** 

o The value of the class.

#### 6.1.3 Member Function Documentation

#### 6.1.3.1 COT()

```
boolean data.Activity_Level.COT ( \label{eq:coto} {\tt Object} \ o \ ) \quad [{\tt protected}]
```

Provides a method to return whether the object's type is valid to be inputted into.

E.g. String cannot go into Double, and vice versa, so it returns false.

Note

Lossy type casting may be encountered from Double to Integer.

Lossless type casting may be encountered from Integer to Double.

#### **Parameters**

o Object to be inspected on other conditions.

Reimplemented from structs.Struct.

Here is the call graph for this function:



#### 6.1.3.2 IsBetween1\_2()

```
boolean data.Activity_Level.IsBetween1_2 ( double o ) [private]
```

Here is the caller graph for this function:

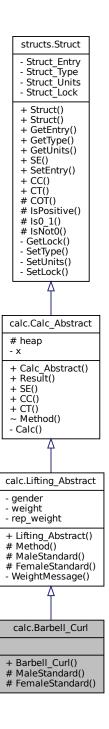


The documentation for this class was generated from the following file:

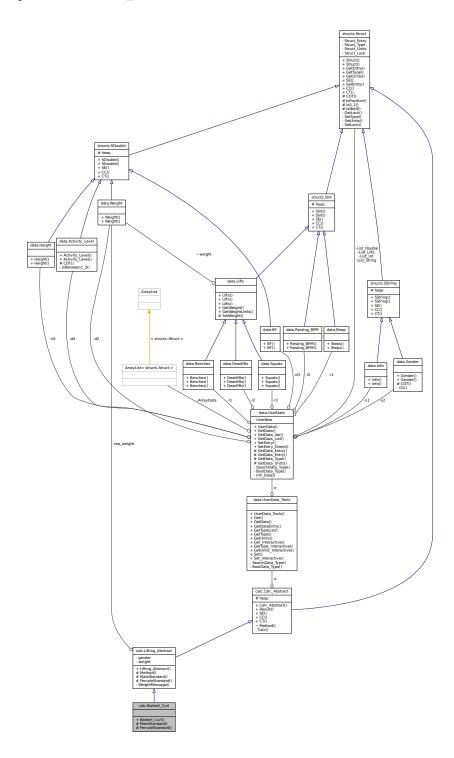
• /home/jamie/java/forms\_project/src/lib/data/Activity\_Level.java

# 6.2 calc.Barbell\_Curl Class Reference

Inheritance diagram for calc.Barbell\_Curl:



Collaboration diagram for calc.Barbell\_Curl:



## **Public Member Functions**

• Barbell\_Curl (UserData z)

## **Protected Member Functions**

- String MaleStandard (int weight, int rweight)
- String FemaleStandard (int weight, int rweight)

## **Additional Inherited Members**

## 6.2.1 Constructor & Destructor Documentation

## 6.2.1.1 Barbell\_Curl()

## 6.2.2 Member Function Documentation

#### 6.2.2.1 FemaleStandard()

Reimplemented from calc.Lifting\_Abstract.

## 6.2.2.2 MaleStandard()

Reimplemented from calc.Lifting\_Abstract.

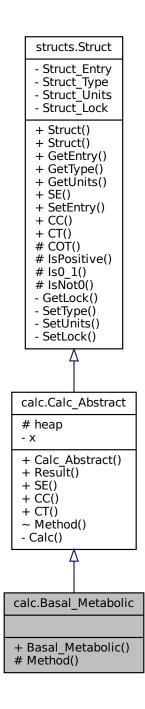
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/calc/Barbell\_Curl.java

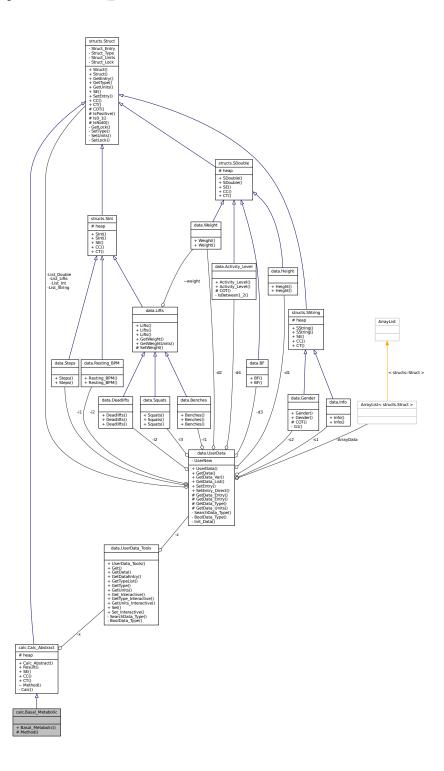
# 6.3 calc.Basal\_Metabolic Class Reference

Calculates and returns Basal Metabolic values.

Inheritance diagram for calc.Basal\_Metabolic:



Collaboration diagram for calc.Basal\_Metabolic:



## **Public Member Functions**

• Basal\_Metabolic (UserData z)

Constructor for the class that uses #UserData.

#### **Protected Member Functions**

Object Method (UserData\_Tools use)

The body of the calculations.

## **Additional Inherited Members**

## 6.3.1 Detailed Description

Calculates and returns Basal Metabolic values.

## 6.3.2 Constructor & Destructor Documentation

#### 6.3.2.1 Basal\_Metabolic()

```
calc.Basal_Metabolic.Basal_Metabolic ( {\tt UserData} \ z \ )
```

Constructor for the class that uses #UserData.

#### **Parameters**

z User's data.

#### 6.3.3 Member Function Documentation

#### 6.3.3.1 Method()

```
Object calc.Basal_Metabolic.Method ( {\tt UserData\_Tools} \ use \ ) \quad [{\tt protected}]
```

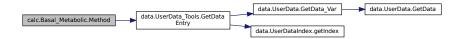
The body of the calculations.

#### **Parameters**

```
use Instance of using the user's values to calculate the value of the class. Women BMR = 655 + (9.6 X weight in kg) + (1.8 x height in cm) – (4.7 x age in yrs) Men BMR = 66 + (13.7 X weight in kg) + (5 x height in cm) – (6.8 x age in yrs)
```

Reimplemented from calc.Calc\_Abstract.

Here is the call graph for this function:

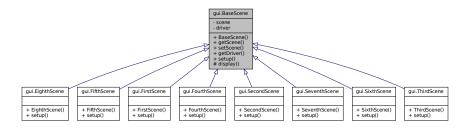


The documentation for this class was generated from the following file:

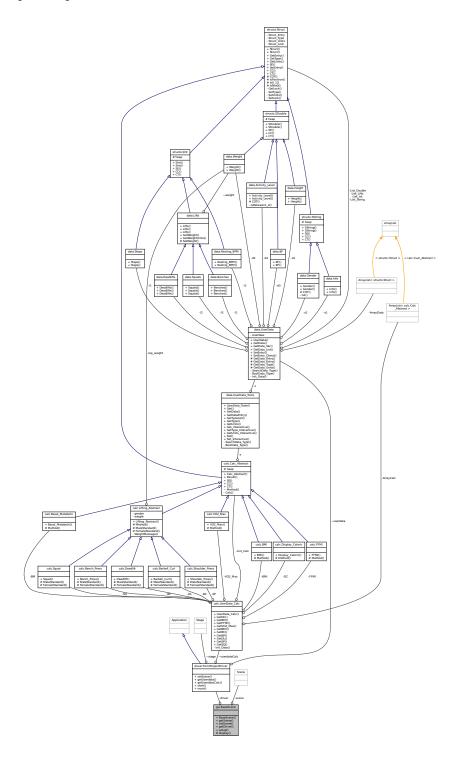
• /home/jamie/java/forms\_project/src/lib/calc/Basal\_Metabolic.java

# 6.4 gui.BaseScene Class Reference

Inheritance diagram for gui.BaseScene:



## Collaboration diagram for gui.BaseScene:



## **Public Member Functions**

- BaseScene (FormProjectDriver driver)
- Scene getScene ()
- void setScene (Scene scene)
- FormProjectDriver getDriver ()
- abstract void setup ()

Sets up the scene (the actual drawing)

## **Protected Member Functions**

• void display ()

#### **Private Attributes**

- Scene scene
- FormProjectDriver driver

#### 6.4.1 Constructor & Destructor Documentation

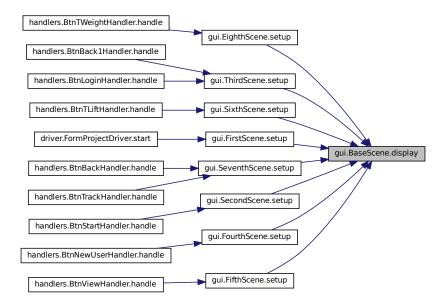
#### 6.4.1.1 BaseScene()

#### 6.4.2 Member Function Documentation

## 6.4.2.1 display()

```
void gui.BaseScene.display ( ) [protected]
```

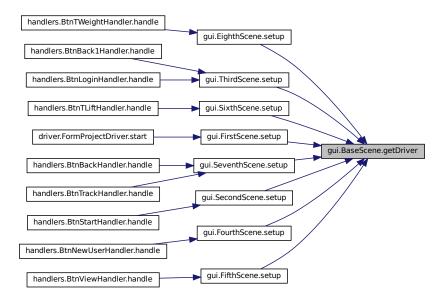
Here is the caller graph for this function:



## 6.4.2.2 getDriver()

```
FormProjectDriver gui.BaseScene.getDriver ( )
```

Here is the caller graph for this function:

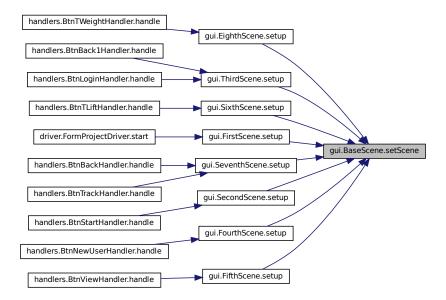


## 6.4.2.3 getScene()

```
Scene gui.BaseScene.getScene ( )
```

## 6.4.2.4 setScene()

Here is the caller graph for this function:



### 6.4.2.5 setup()

abstract void gui.BaseScene.setup ( ) [abstract]

Sets up the scene (the actual drawing)

Reimplemented in gui.FifthScene, gui.FourthScene, gui.SecondScene, gui.SeventhScene, gui.EighthScene, gui.EighthScene, gui.FirstScene, gui.SixthScene, and gui.ThirdScene.

#### 6.4.3 Member Data Documentation

#### 6.4.3.1 driver

FormProjectDriver gui.BaseScene.driver [private]

#### 6.4.3.2 scene

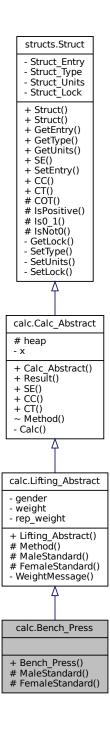
Scene gui.BaseScene.scene [private]

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

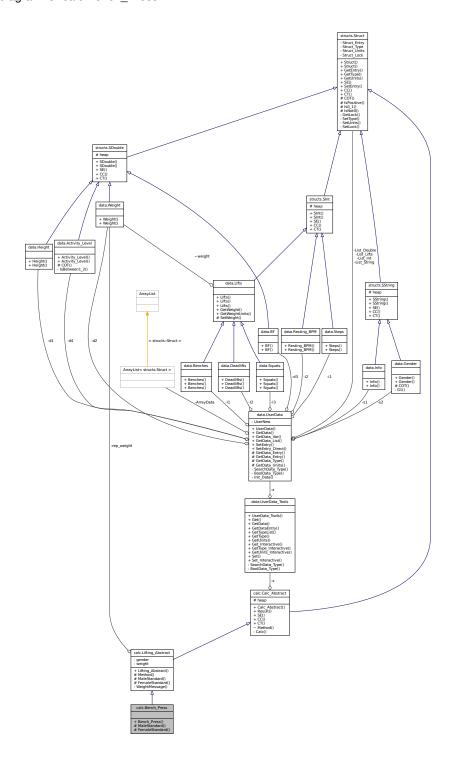
• /home/jamie/java/forms\_project/src/lib/gui/gui/BaseScene.java

# 6.5 calc.Bench\_Press Class Reference

Inheritance diagram for calc.Bench\_Press:



Collaboration diagram for calc.Bench\_Press:



## **Public Member Functions**

• Bench\_Press (UserData z)

## **Protected Member Functions**

- String MaleStandard (int weight, int rweight)
- String FemaleStandard (int weight, int rweight)

## **Additional Inherited Members**

## 6.5.1 Constructor & Destructor Documentation

## 6.5.1.1 Bench\_Press()

```
calc.Bench_Press.Bench_Press ( UserData z )
```

## 6.5.2 Member Function Documentation

#### 6.5.2.1 FemaleStandard()

Reimplemented from calc.Lifting\_Abstract.

## 6.5.2.2 MaleStandard()

Reimplemented from calc.Lifting\_Abstract.

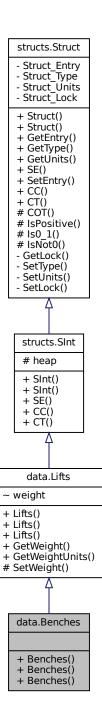
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/calc/Bench\_Press.java

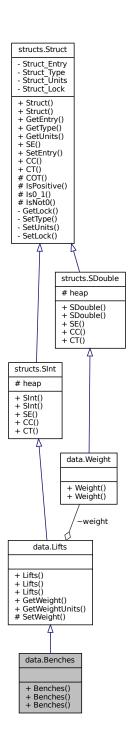
## 6.6 data.Benches Class Reference

The class that holds Benches data.

Inheritance diagram for data. Benches:



Collaboration diagram for data.Benches:



## **Public Member Functions**

• Benches ()

Constructor with null values both in reps and weight.

• Benches (int o)

Constructor with a defined reps value.

• Benches (int o, double p)

Constructor with a defined reps value, and a weight value.

## **Additional Inherited Members**

## 6.6.1 Detailed Description

The class that holds Benches data.

#### 6.6.2 Constructor & Destructor Documentation

#### 6.6.2.1 Benches() [1/3]

```
data.Benches.Benches ( )
```

Constructor with null values both in reps and weight.

#### 6.6.2.2 Benches() [2/3]

```
data.Benches.Benches ( int\ o )
```

Constructor with a defined reps value.

#### **Parameters**

```
o The value of the reps.
```

## 6.6.2.3 Benches() [3/3]

```
data.Benches.Benches ( \inf \ o, \operatorname{double} \ p \ )
```

Constructor with a defined reps value, and a weight value.

#### **Parameters**

0	The value of the reps.
р	The value of the weight.

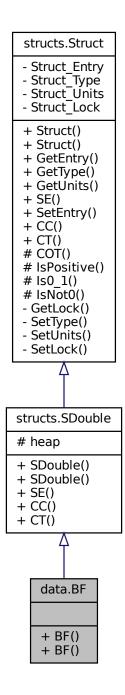
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/data/Benches.java

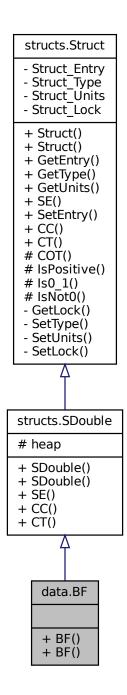
## 6.7 data.BF Class Reference

The class that holds BF data.

Inheritance diagram for data.BF:



Collaboration diagram for data.BF:



### **Public Member Functions**

• BF ()

Constructor with a null value.

• BF (double o)

Constructor with a defined value.

## **Additional Inherited Members**

## 6.7.1 Detailed Description

The class that holds BF data.

## 6.7.2 Constructor & Destructor Documentation

```
6.7.2.1 BF() [1/2]
```

```
data.BF.BF ( )
```

Constructor with a null value.

#### 6.7.2.2 BF() [2/2]

```
data.BF.BF ( double o )
```

Constructor with a defined value.

#### **Parameters**

o The value of the class.

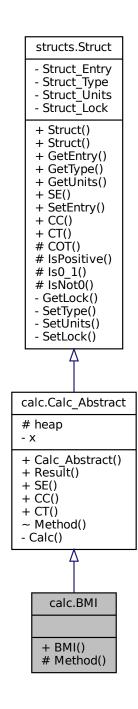
The documentation for this class was generated from the following file:

/home/jamie/java/forms\_project/src/lib/data/BF.java

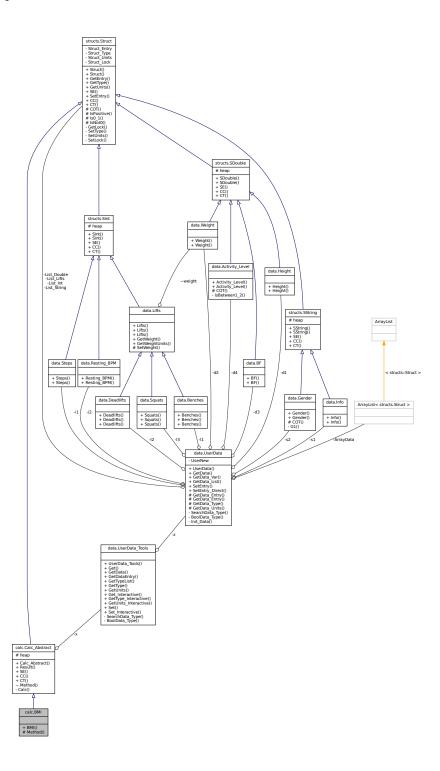
## 6.8 calc.BMI Class Reference

Calculates and returns BMI values.

Inheritance diagram for calc.BMI:



## Collaboration diagram for calc.BMI:



## **Public Member Functions**

• BMI (UserData z)

Constructor for the class that uses #UserData.

## **Protected Member Functions**

• Object Method (UserData\_Tools use)

The body of the calculations.

## **Additional Inherited Members**

## 6.8.1 Detailed Description

Calculates and returns BMI values.

## 6.8.2 Constructor & Destructor Documentation

#### 6.8.2.1 BMI()

```
calc.BMI.BMI ( {\tt UserData}\ z\ )
```

Constructor for the class that uses #UserData.

#### **Parameters**

z User's data.

#### 6.8.3 Member Function Documentation

#### 6.8.3.1 Method()

```
Object calc.BMI.Method (

UserData_Tools use ) [protected]
```

The body of the calculations.

#### **Parameters**

use Instance of using the user's values to calculate the value of the class.

BMI = body weight in kg/ height in m squared

Reimplemented from calc.Calc\_Abstract.

Here is the call graph for this function:

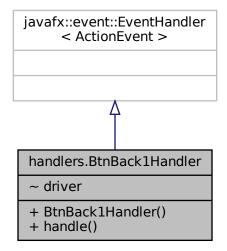


The documentation for this class was generated from the following file:

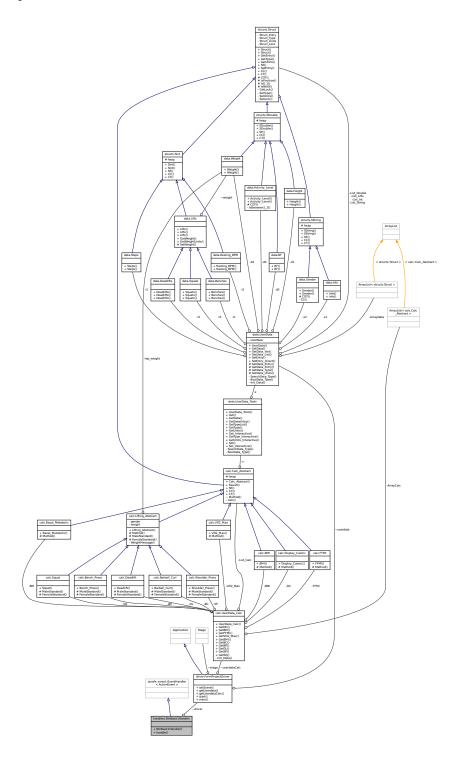
• /home/jamie/java/forms\_project/src/lib/calc/BMI.java

## 6.9 handlers.BtnBack1Handler Class Reference

Inheritance diagram for handlers.BtnBack1Handler:



Collaboration diagram for handlers.BtnBack1Handler:



## **Public Member Functions**

- BtnBack1Handler (FormProjectDriver driver)
- void handle (ActionEvent event)

## **Package Attributes**

• FormProjectDriver driver

## 6.9.1 Constructor & Destructor Documentation

## 6.9.1.1 BtnBack1Handler()

#### 6.9.2 Member Function Documentation

## 6.9.2.1 handle()

Here is the call graph for this function:



## 6.9.3 Member Data Documentation

#### 6.9.3.1 driver

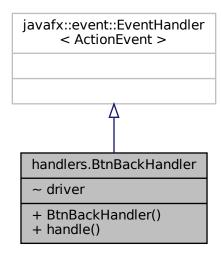
FormProjectDriver handlers.BtnBack1Handler.driver [package]

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

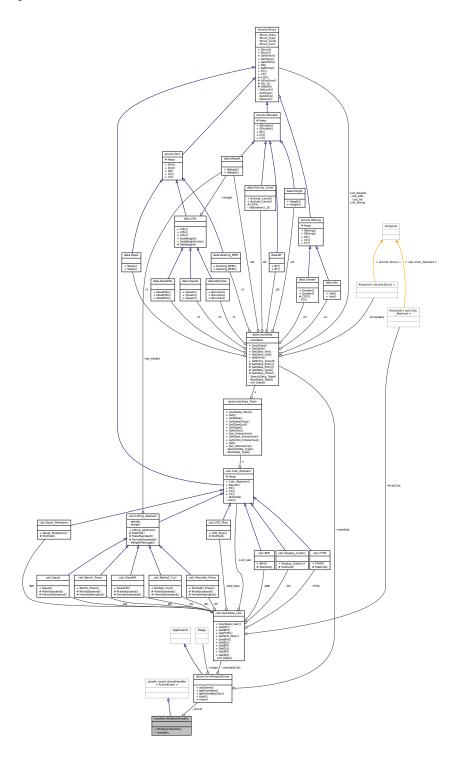
/home/jamie/java/forms\_project/src/lib/gui/handlers/BtnBack1Handler.java

# 6.10 handlers.BtnBackHandler Class Reference

 $Inheritance\ diagram\ for\ handlers. Btn Back Handler:$ 



Collaboration diagram for handlers.BtnBackHandler:



## **Public Member Functions**

- BtnBackHandler (FormProjectDriver driver)
- void handle (ActionEvent event)

## **Package Attributes**

• FormProjectDriver driver

## 6.10.1 Constructor & Destructor Documentation

## 6.10.1.1 BtnBackHandler()

```
\label{lem:handlers.BtnBackHandler} \mbox{ handlers.BtnBackHandler (} \\ \mbox{ FormProjectDriver } \mbox{ driver )}
```

#### 6.10.2 Member Function Documentation

## 6.10.2.1 handle()

Here is the call graph for this function:



## 6.10.3 Member Data Documentation

### 6.10.3.1 driver

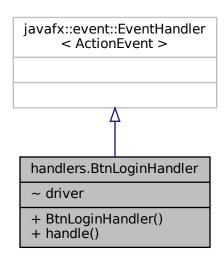
FormProjectDriver handlers.BtnBackHandler.driver [package]

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

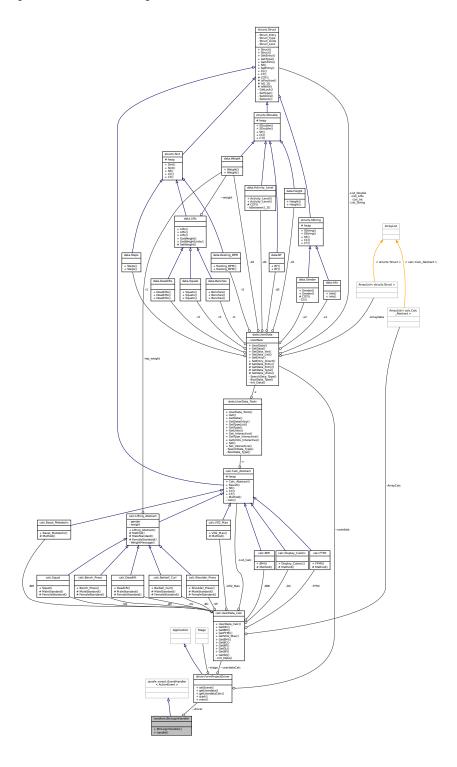
• /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnBackHandler.java

# 6.11 handlers.BtnLoginHandler Class Reference

Inheritance diagram for handlers.BtnLoginHandler:



Collaboration diagram for handlers.BtnLoginHandler:



## **Public Member Functions**

- BtnLoginHandler (FormProjectDriver driver)
- void handle (ActionEvent event)

## **Package Attributes**

• FormProjectDriver driver

## 6.11.1 Constructor & Destructor Documentation

## 6.11.1.1 BtnLoginHandler()

```
\label{loginHandlerBtnLoginHandler} \mbox{ handlers.BtnLoginHandler (} \\ \mbox{ FormProjectDriver } \mbox{ } driver \mbox{ )}
```

#### 6.11.2 Member Function Documentation

## 6.11.2.1 handle()

Here is the call graph for this function:



#### 6.11.3 Member Data Documentation

#### 6.11.3.1 driver

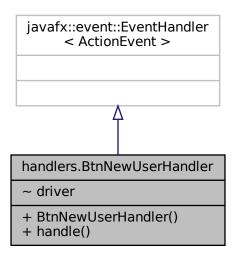
FormProjectDriver handlers.BtnLoginHandler.driver [package]

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

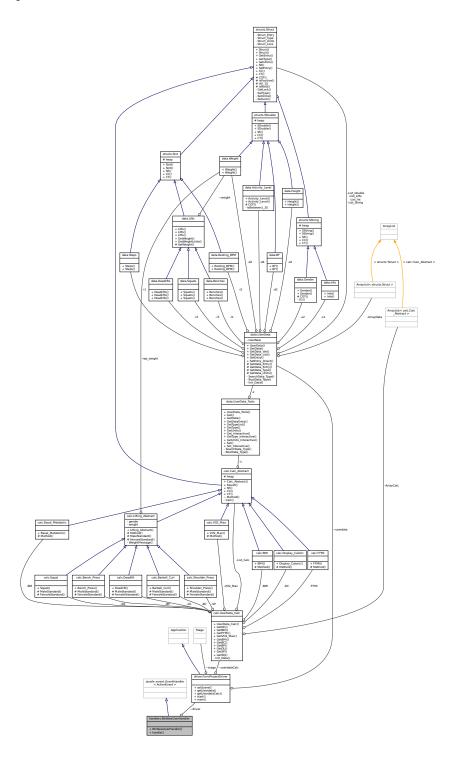
/home/jamie/java/forms\_project/src/lib/gui/handlers/BtnLoginHandler.java

# 6.12 handlers.BtnNewUserHandler Class Reference

Inheritance diagram for handlers.BtnNewUserHandler:



Collaboration diagram for handlers.BtnNewUserHandler:



# **Public Member Functions**

- BtnNewUserHandler (FormProjectDriver driver)
- void handle (ActionEvent event)

# **Package Attributes**

• FormProjectDriver driver

### 6.12.1 Constructor & Destructor Documentation

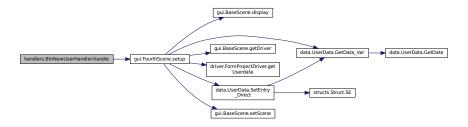
#### 6.12.1.1 BtnNewUserHandler()

#### 6.12.2 Member Function Documentation

#### 6.12.2.1 handle()

```
void handlers.BtnNewUserHandler.handle ( {\tt ActionEvent}\ event\ )
```

Here is the call graph for this function:



# 6.12.3 Member Data Documentation

#### 6.12.3.1 driver

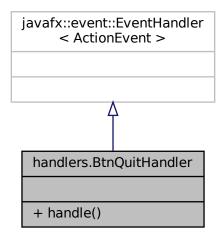
```
FormProjectDriver handlers.BtnNewUserHandler.driver [package]
```

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

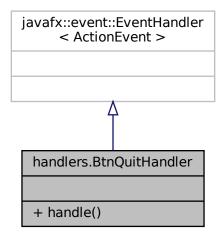
• /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnNewUserHandler.java

# 6.13 handlers.BtnQuitHandler Class Reference

Inheritance diagram for handlers.BtnQuitHandler:



 $Collaboration\ diagram\ for\ handlers. Btn Quit Handler:$ 



### **Public Member Functions**

• void handle (ActionEvent event)

### 6.13.1 Member Function Documentation

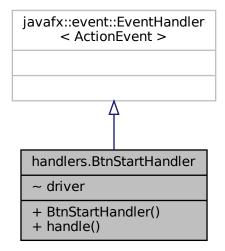
### 6.13.1.1 handle()

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

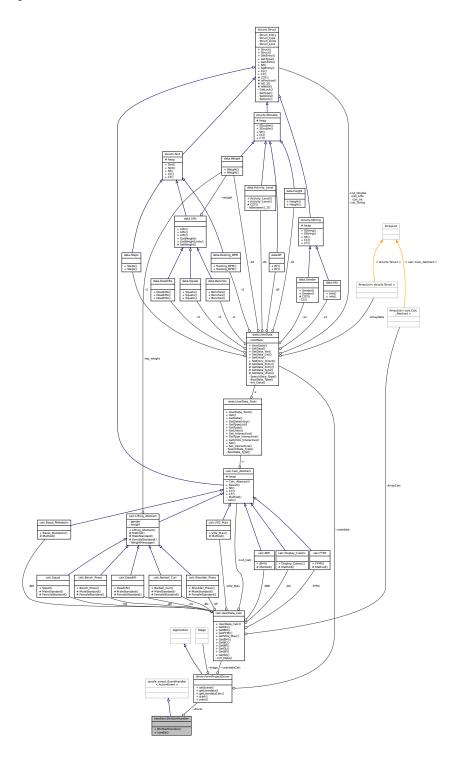
• /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnQuitHandler.java

# 6.14 handlers.BtnStartHandler Class Reference

Inheritance diagram for handlers.BtnStartHandler:



Collaboration diagram for handlers.BtnStartHandler:



# **Public Member Functions**

- BtnStartHandler (FormProjectDriver driver)
- void handle (ActionEvent event)

# **Package Attributes**

• FormProjectDriver driver

### 6.14.1 Constructor & Destructor Documentation

### 6.14.1.1 BtnStartHandler()

#### 6.14.2 Member Function Documentation

#### 6.14.2.1 handle()

Here is the call graph for this function:



### 6.14.3 Member Data Documentation

# 6.14.3.1 driver

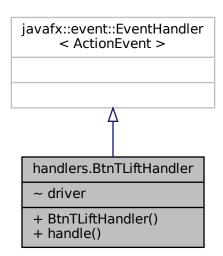
FormProjectDriver handlers.BtnStartHandler.driver [package]

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

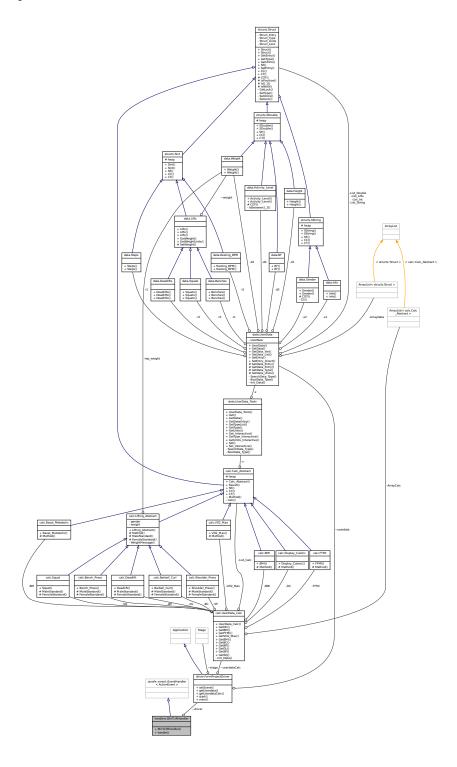
• /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnStartHandler.java

# 6.15 handlers.BtnTLiftHandler Class Reference

Inheritance diagram for handlers.BtnTLiftHandler:



Collaboration diagram for handlers.BtnTLiftHandler:



# **Public Member Functions**

- BtnTLiftHandler (FormProjectDriver driver)
- void handle (ActionEvent event)

# **Package Attributes**

• FormProjectDriver driver

### 6.15.1 Constructor & Destructor Documentation

### 6.15.1.1 BtnTLiftHandler()

#### 6.15.2 Member Function Documentation

#### 6.15.2.1 handle()

```
void handlers.BtnTLiftHandler.handle ( {\tt ActionEvent}\ event\ )
```

Here is the call graph for this function:



#### 6.15.3 Member Data Documentation

#### 6.15.3.1 driver

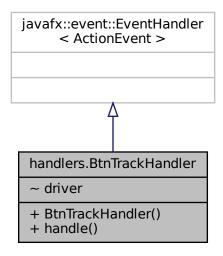
```
FormProjectDriver handlers.BtnTLiftHandler.driver [package]
```

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

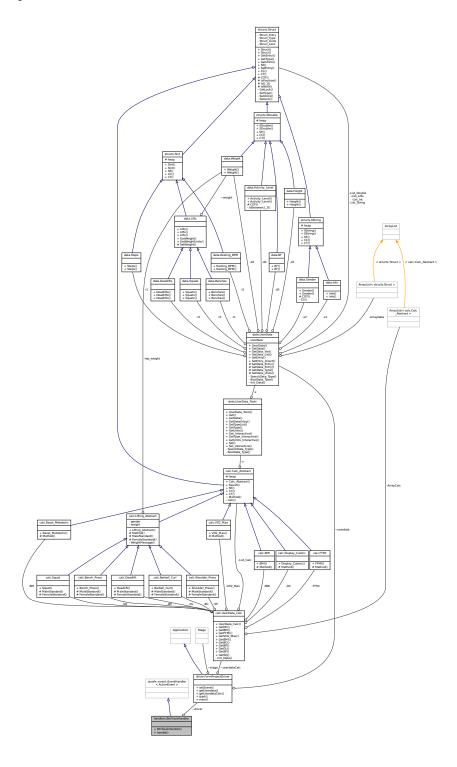
/home/jamie/java/forms\_project/src/lib/gui/handlers/BtnTLiftHandler.java

# 6.16 handlers.BtnTrackHandler Class Reference

 $Inheritance\ diagram\ for\ handlers. Btn Track Handler:$ 



Collaboration diagram for handlers.BtnTrackHandler:



# **Public Member Functions**

- BtnTrackHandler (FormProjectDriver driver)
- void handle (ActionEvent event)

# **Package Attributes**

• FormProjectDriver driver

### 6.16.1 Constructor & Destructor Documentation

### 6.16.1.1 BtnTrackHandler()

#### 6.16.2 Member Function Documentation

### 6.16.2.1 handle()

```
void handlers.BtnTrackHandler.handle ( ActionEvent\ event\ )
```

Here is the call graph for this function:



# 6.16.3 Member Data Documentation

# 6.16.3.1 driver

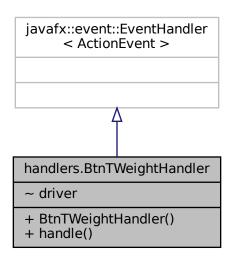
FormProjectDriver handlers.BtnTrackHandler.driver [package]

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

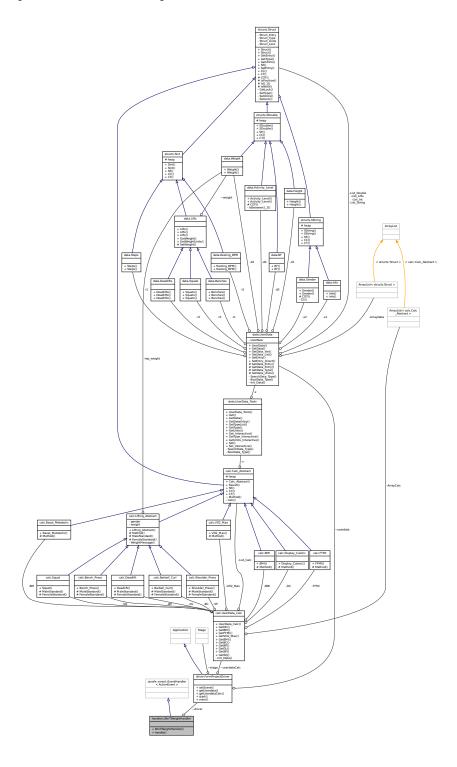
• /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnTrackHandler.java

# 6.17 handlers.BtnTWeightHandler Class Reference

Inheritance diagram for handlers.BtnTWeightHandler:



Collaboration diagram for handlers.BtnTWeightHandler:



# **Public Member Functions**

- BtnTWeightHandler (FormProjectDriver driver)
- void handle (ActionEvent event)

# **Package Attributes**

• FormProjectDriver driver

### 6.17.1 Constructor & Destructor Documentation

### 6.17.1.1 BtnTWeightHandler()

#### 6.17.2 Member Function Documentation

### 6.17.2.1 handle()

```
void handlers.BtnTWeightHandler.handle ( {\tt ActionEvent}\ event\ )
```

Here is the call graph for this function:



# 6.17.3 Member Data Documentation

### 6.17.3.1 driver

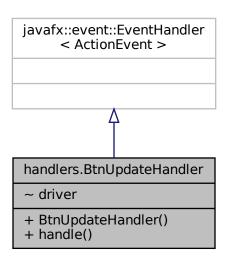
FormProjectDriver handlers.BtnTWeightHandler.driver [package]

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

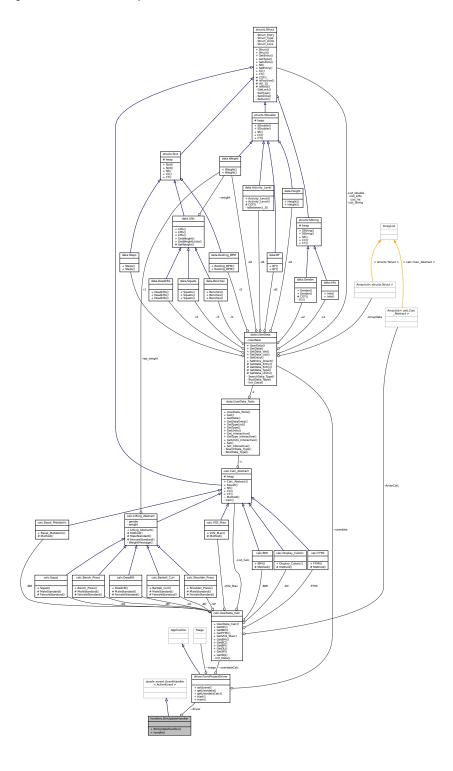
• /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnTWeightHandler.java

# 6.18 handlers.BtnUpdateHandler Class Reference

 $Inheritance\ diagram\ for\ handlers. Btn Update Handler:$ 



Collaboration diagram for handlers.BtnUpdateHandler:



# **Public Member Functions**

- BtnUpdateHandler (FormProjectDriver driver)
- void handle (ActionEvent event)

# **Package Attributes**

• FormProjectDriver driver

### 6.18.1 Constructor & Destructor Documentation

# 6.18.1.1 BtnUpdateHandler()

```
handlers.BtnUpdateHandler.BtnUpdateHandler (  FormProjectDriver \ driver \ )
```

### 6.18.2 Member Function Documentation

### 6.18.2.1 handle()

```
void handlers.BtnUpdateHandler.handle ( {\tt ActionEvent}\ event\ )
```

### 6.18.3 Member Data Documentation

### 6.18.3.1 driver

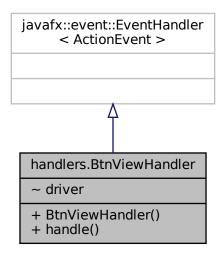
```
FormProjectDriver handlers.BtnUpdateHandler.driver [package]
```

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

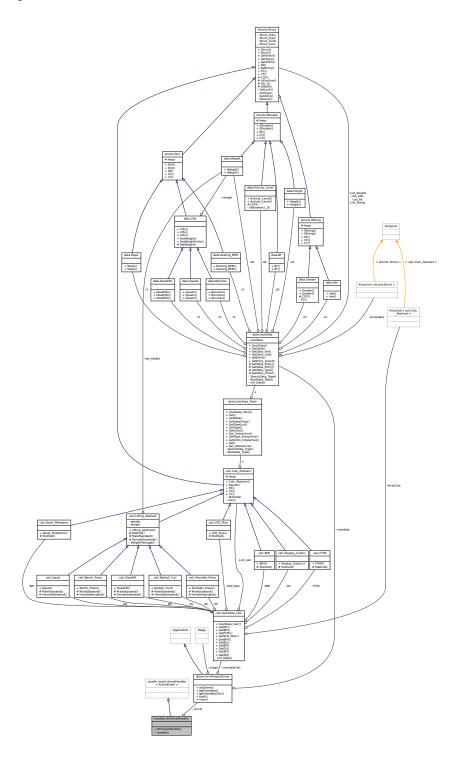
 $\bullet \ \ /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnUpdateHandler.java$ 

# 6.19 handlers.BtnViewHandler Class Reference

Inheritance diagram for handlers.BtnViewHandler:



Collaboration diagram for handlers.BtnViewHandler:



# **Public Member Functions**

- BtnViewHandler (FormProjectDriver driver)
- void handle (ActionEvent event)

# **Package Attributes**

• FormProjectDriver driver

### 6.19.1 Constructor & Destructor Documentation

### 6.19.1.1 BtnViewHandler()

```
handlers.BtnViewHandler.BtnViewHandler (  FormProjectDriver \ driver \ ) \\
```

### 6.19.2 Member Function Documentation

#### 6.19.2.1 handle()

Here is the call graph for this function:



#### 6.19.3 Member Data Documentation

#### 6.19.3.1 driver

```
FormProjectDriver handlers.BtnViewHandler.driver [package]
```

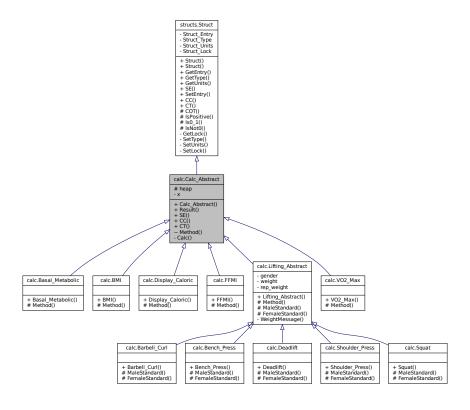
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnViewHandler.java

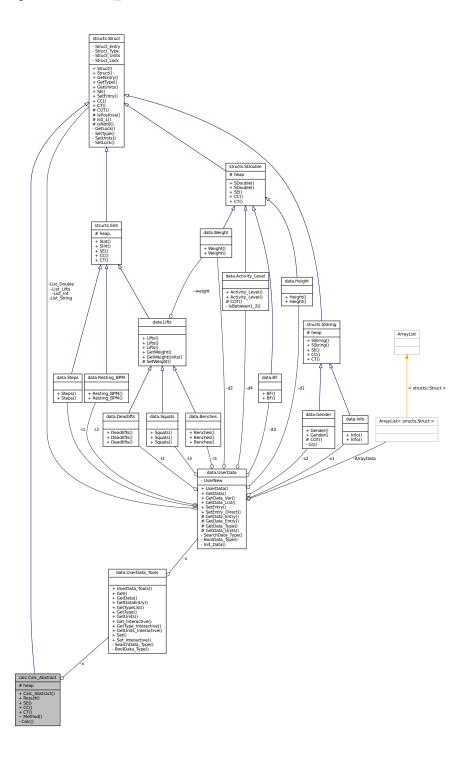
# 6.20 calc.Calc\_Abstract Class Reference

Contains abstract methods to calculate and return calculations.

Inheritance diagram for calc.Calc\_Abstract:



Collaboration diagram for calc.Calc\_Abstract:



# **Public Member Functions**

- Calc\_Abstract (UserData z, String Type, String Units)
   Initializes Calc\_Abstract with the #UserData.
- Object Result ()

Returns the value of the calculation.

• boolean SE (Object o)

- boolean CC (Object o)
- boolean CT (Object o)

Checks if the object for input is valid for entry.

#### **Protected Attributes**

· Object heap

Temporary heap for calculations.

# **Package Functions**

abstract Object Method (UserData\_Tools use)
 Abstract class to force a method for calculation.

#### **Private Member Functions**

• void Calc ()

Runs the methods for calculations.

#### **Private Attributes**

• UserData\_Tools x

Calls #UserData\_Tools to get values of the #UserData.

# **Additional Inherited Members**

# 6.20.1 Detailed Description

Contains abstract methods to calculate and return calculations.

It is a subclass of Struct.

### 6.20.2 Constructor & Destructor Documentation

#### 6.20.2.1 Calc Abstract()

Initializes Calc\_Abstract with the #UserData.

#### **Parameters**

Z	User's data.
Туре	The type of the calculation.
Units	The units of the calculation.

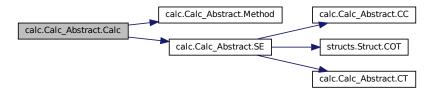
### 6.20.3 Member Function Documentation

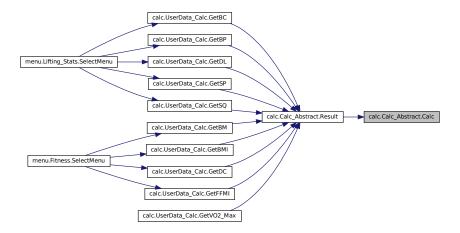
# 6.20.3.1 Calc()

void calc.Calc\_Abstract.Calc ( ) [private]

Runs the methods for calculations.

Here is the call graph for this function:





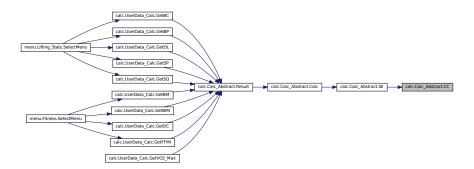
### 6.20.3.2 CC()

See also

#Struct.CC

Reimplemented from structs.Struct.

Here is the caller graph for this function:



#### 6.20.3.3 CT()

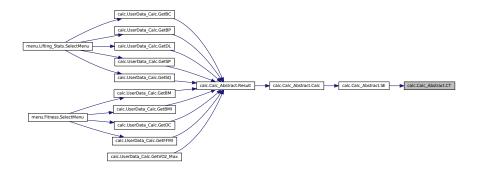
```
boolean calc.Calc_Abstract.CT ( \label{eq:calc_Abstract} \mbox{Object $o$ )}
```

Checks if the object for input is valid for entry.

See also

#Struct.CT

Reimplemented from structs.Struct.



#### 6.20.3.4 Method()

Abstract class to force a method for calculation.

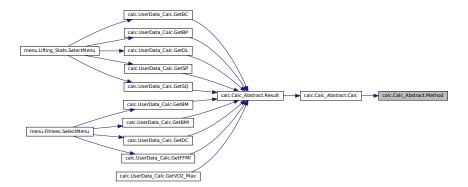
Uses the #UserData\_Tools for accessing the values for calculation.

#### **Parameters**



Reimplemented in calc.Display\_Caloric, calc.Lifting\_Abstract, calc.FFMI, calc.Basal\_Metabolic, calc.BMI, and calc.VO2\_Max.

Here is the caller graph for this function:



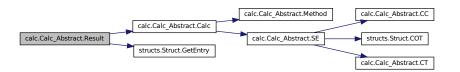
#### 6.20.3.5 Result()

```
Object calc.Calc_Abstract.Result ( )
```

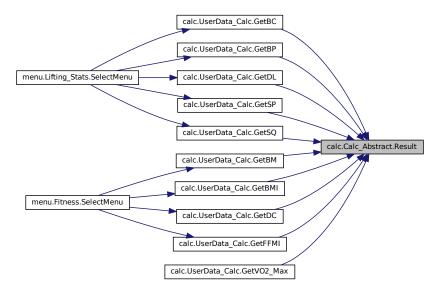
Returns the value of the calculation.

#### Returns

#Struct.GetEntry



Here is the caller graph for this function:



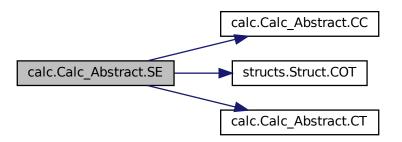
### 6.20.3.6 SE()

```
boolean calc.Calc_Abstract.SE ( \label{eq:calc_Abstract} \mbox{Object $o$ )}
```

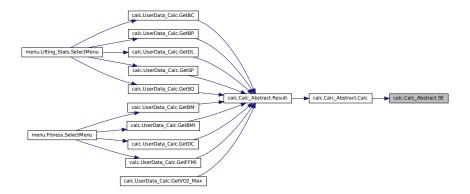
#### See also

#Struct.SE

Reimplemented from structs.Struct.



Here is the caller graph for this function:



### 6.20.4 Member Data Documentation

#### 6.20.4.1 heap

Object calc.Calc\_Abstract.heap [protected]

Temporary heap for calculations.

#### 6.20.4.2 x

UserData\_Tools calc.Calc\_Abstract.x [private]

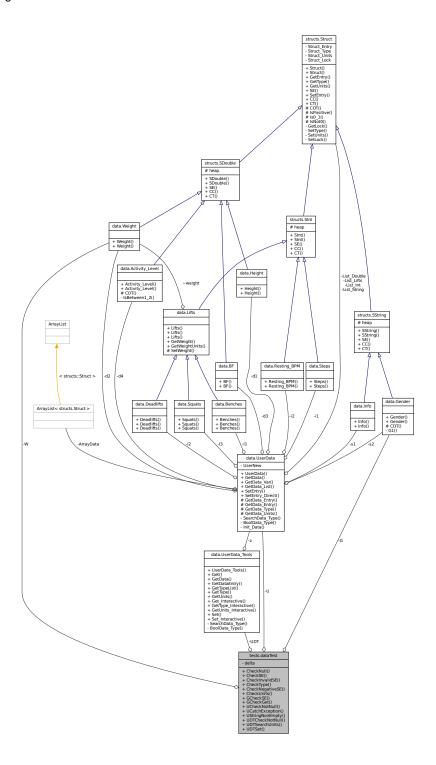
Calls #UserData\_Tools to get values of the #UserData.

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

• /home/jamie/java/forms\_project/src/lib/calc/Calc\_Abstract.java

# 6.21 tests.dataTest Class Reference

Collaboration diagram for tests.dataTest:



# **Public Member Functions**

- void CheckNull ()
- void CheckSE ()

- void CheckInvalidSE ()
- void CheckType ()
- void CheckNegativeSE ()
- void CheckUnits ()
- void GCheckSE ()
- void GCheckGet ()
- void UCheckNotNull ()
- void UCatchException ()
- void UStringNonEmpty ()
- void UDTCheckNotNull ()
- void UDTSearchUnits ()
- void UDTSet ()

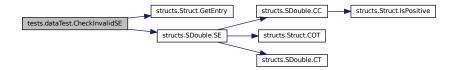
#### **Private Attributes**

- Weight W = new Weight()
- double delta = 0.0000001
- Gender G = new Gender()
- UserData U = new UserData()
- UserData\_Tools UDT = new UserData\_Tools(U)

#### **6.21.1 Member Function Documentation**

#### 6.21.1.1 CheckInvalidSE()

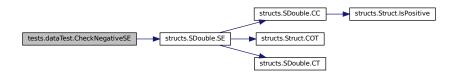
```
void tests.dataTest.CheckInvalidSE ( )
```



### 6.21.1.2 CheckNegativeSE()

```
void tests.dataTest.CheckNegativeSE ( )
```

Here is the call graph for this function:



### 6.21.1.3 CheckNull()

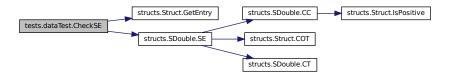
```
void tests.dataTest.CheckNull ( )
```

Here is the call graph for this function:



#### 6.21.1.4 CheckSE()

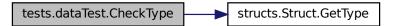
```
void tests.dataTest.CheckSE ( )
```



### 6.21.1.5 CheckType()

```
void tests.dataTest.CheckType ( )
```

Here is the call graph for this function:



### 6.21.1.6 CheckUnits()

```
void tests.dataTest.CheckUnits ( )
```

Here is the call graph for this function:



#### 6.21.1.7 GCheckGet()

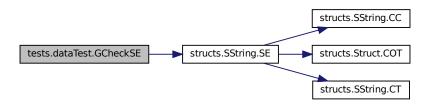
```
void tests.dataTest.GCheckGet ( )
```



### 6.21.1.8 GCheckSE()

```
void tests.dataTest.GCheckSE ( )
```

Here is the call graph for this function:



#### 6.21.1.9 UCatchException()

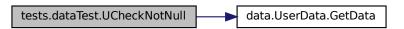
```
void tests.dataTest.UCatchException ( )
```

Here is the call graph for this function:



### 6.21.1.10 UCheckNotNull()

```
void tests.dataTest.UCheckNotNull ( )
```



# 6.21.1.11 UDTCheckNotNull()

```
void tests.dataTest.UDTCheckNotNull ( )
```

Here is the call graph for this function:



# 6.21.1.12 UDTSearchUnits()

```
void tests.dataTest.UDTSearchUnits ( )
```

Here is the call graph for this function:



### 6.21.1.13 UDTSet()

```
void tests.dataTest.UDTSet ( )
```



### 6.21.1.14 UStringNonEmpty()

```
void tests.dataTest.UStringNonEmpty ( )
```

Here is the call graph for this function:



### 6.21.2 Member Data Documentation

#### 6.21.2.1 delta

```
double tests.dataTest.delta = 0.0000001 [private]
```

# 6.21.2.2 G

```
Gender tests.dataTest.G = new Gender() [private]
```

#### 6.21.2.3 U

```
UserData tests.dataTest.U = new UserData() [private]
```

### 6.21.2.4 UDT

```
UserData_Tools tests.dataTest.UDT = new UserData_Tools(U) [private]
```

#### 6.21.2.5 W

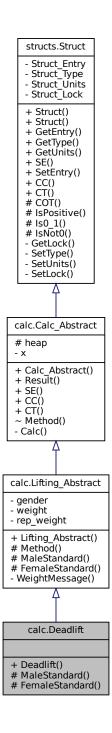
```
Weight tests.dataTest.W = new Weight() [private]
```

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

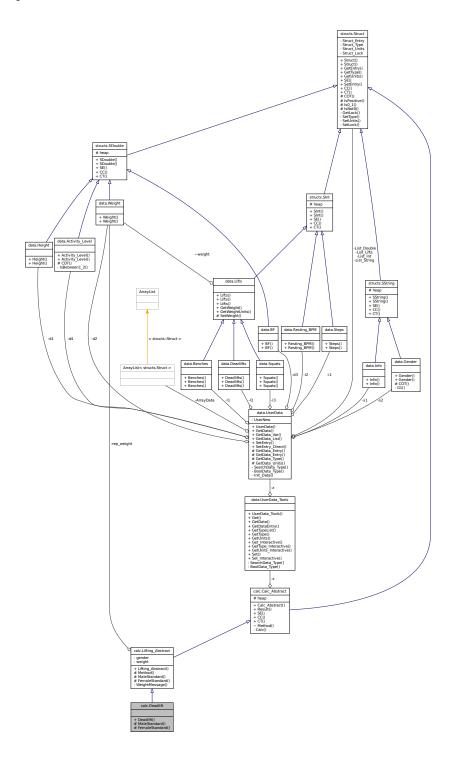
/home/jamie/java/forms\_project/src/lib/tests/dataTest.java

# 6.22 calc.Deadlift Class Reference

Inheritance diagram for calc. Deadlift:



Collaboration diagram for calc.Deadlift:



# **Public Member Functions**

• Deadlift (UserData z)

# **Protected Member Functions**

- String MaleStandard (int weight, int rweight)
- String FemaleStandard (int weight, int rweight)

# **Additional Inherited Members**

# 6.22.1 Constructor & Destructor Documentation

# 6.22.1.1 Deadlift()

```
calc.Deadlift.Deadlift ( UserData z )
```

# 6.22.2 Member Function Documentation

#### 6.22.2.1 FemaleStandard()

Reimplemented from calc.Lifting\_Abstract.

# 6.22.2.2 MaleStandard()

Reimplemented from calc.Lifting\_Abstract.

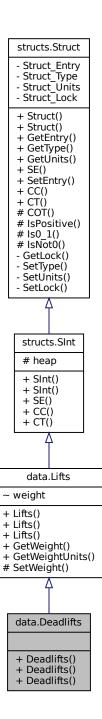
The documentation for this class was generated from the following file:

/home/jamie/java/forms\_project/src/lib/calc/Deadlift.java

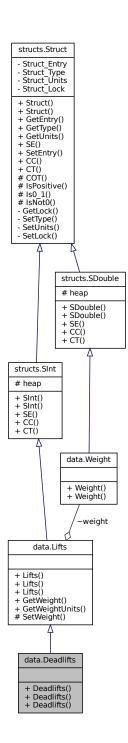
# 6.23 data. Deadlifts Class Reference

The class that holds Deadlifts data.

Inheritance diagram for data. Deadlifts:



Collaboration diagram for data. Deadlifts:



# **Public Member Functions**

· Deadlifts ()

Constructor with null values in both reps and weight.

• Deadlifts (int o)

Constructor with a defined reps value.

• Deadlifts (int o, double p)

Constructor with a defined reps value, and a weight value.

# **Additional Inherited Members**

# 6.23.1 Detailed Description

The class that holds Deadlifts data.

# 6.23.2 Constructor & Destructor Documentation

#### 6.23.2.1 Deadlifts() [1/3]

```
data.Deadlifts.Deadlifts ( )
```

Constructor with null values in both reps and weight.

#### 6.23.2.2 Deadlifts() [2/3]

```
data.Deadlifts.Deadlifts ( int \ o \ )
```

Constructor with a defined reps value.

#### **Parameters**

```
o The value of the reps.
```

# 6.23.2.3 Deadlifts() [3/3]

```
data.Deadlifts.Deadlifts ( \label{eq:continuous} \text{int } o, \label{eq:continuous} \text{double } p \ )
```

Constructor with a defined reps value, and a weight value.

#### **Parameters**

0	The value of the reps.
р	The value of the weight.

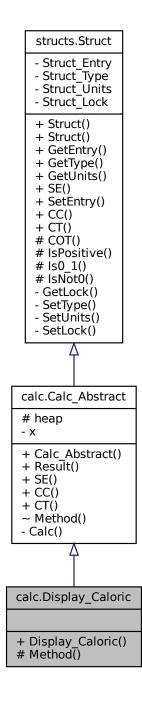
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/data/Deadlifts.java

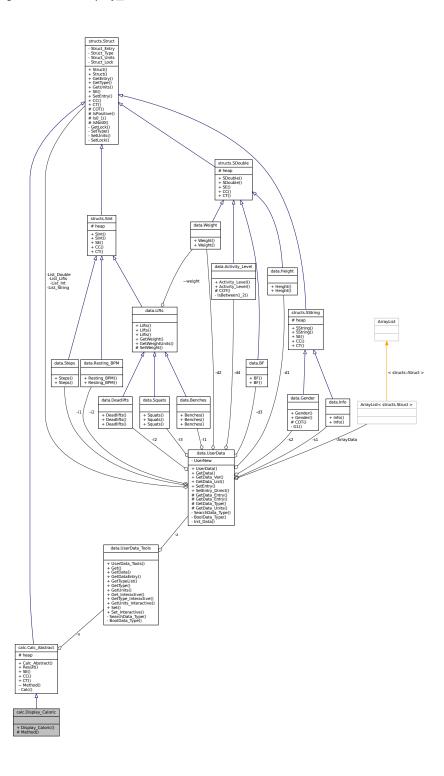
# 6.24 calc.Display\_Caloric Class Reference

Calculates and returns Display Caloric values.

Inheritance diagram for calc.Display\_Caloric:



Collaboration diagram for calc.Display\_Caloric:



# **Public Member Functions**

• Display\_Caloric (UserData z)

Constructor for the class that uses #UserData.

#### **Protected Member Functions**

Object Method (UserData\_Tools use)
 The body of the calculations.

# **Additional Inherited Members**

# 6.24.1 Detailed Description

Calculates and returns Display Caloric values.

#### 6.24.2 Constructor & Destructor Documentation

#### 6.24.2.1 Display\_Caloric()

```
calc.Display_Caloric.Display_Caloric ( {\tt UserData} \ z \ )
```

Constructor for the class that uses #UserData.

#### **Parameters**

z User's data.

#### 6.24.3 Member Function Documentation

#### 6.24.3.1 Method()

The body of the calculations.

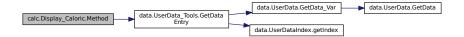
#### **Parameters**

use Instance of using the user's values to calculate the value of the class.

Daily Calorie Requirement = BMR \* Activity Factor Sedentary (little to no exercise + work a desk job) = 1.2 Lightly Active (light exercise 1-3 days / week) = 1.375 Moderately Active (moderate exercise 3-5 days / week) = 1.55 Very Active (heavy exercise 6-7 days / week) = 1.725 Extremely Active (very heavy exercise, hard labor job, training 2x / day) = 1.9

Reimplemented from calc.Calc\_Abstract.

Here is the call graph for this function:



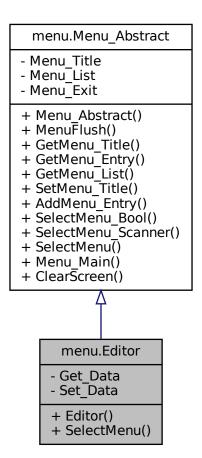
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/calc/Display\_Caloric.java

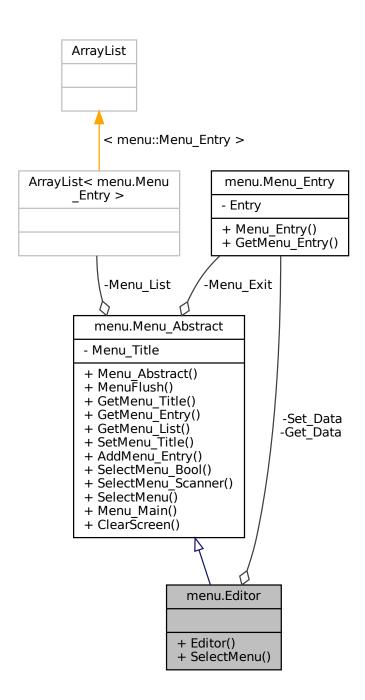
# 6.25 menu. Editor Class Reference

The main menu for choosing either to get values or set values in the main program.

Inheritance diagram for menu. Editor:



Collaboration diagram for menu. Editor:



### **Public Member Functions**

• Editor ()

Constructor that builds the Editor Menu.

• void SelectMenu (int choice, UserData z)

Access either the #Editor\_Get or #Editor\_Set classes.

# **Private Attributes**

```
    Menu_Entry Get_Data = new Menu_Entry("Get Data")
        #Menu_Entry to access the #Editor_Get class.
    Menu_Entry Set_Data = new Menu_Entry("Set Data")
        #Menu_Entry to access the #Editor_Set class.
```

#### **Additional Inherited Members**

# 6.25.1 Detailed Description

The main menu for choosing either to get values or set values in the main program.

# 6.25.2 Constructor & Destructor Documentation

### 6.25.2.1 Editor()

```
menu.Editor.Editor ( )
```

Constructor that builds the Editor Menu.

Here is the call graph for this function:



# 6.25.3 Member Function Documentation

# 6.25.3.1 SelectMenu()

Access either the #Editor\_Get or #Editor\_Set classes.

#### **Parameters**

choice	Chooses either Get or Set classes.
Z	#UserData that should be edited with.

Reimplemented from menu.Menu\_Abstract.

Here is the call graph for this function:



# 6.25.4 Member Data Documentation

# 6.25.4.1 Get\_Data

```
Menu_Entry menu.Editor.Get_Data = new Menu_Entry("Get Data") [private]
```

#Menu\_Entry to access the #Editor\_Get class.

# 6.25.4.2 Set\_Data

```
Menu_Entry menu.Editor.Set_Data = new Menu_Entry("Set Data") [private]
```

#Menu\_Entry to access the #Editor\_Set class.

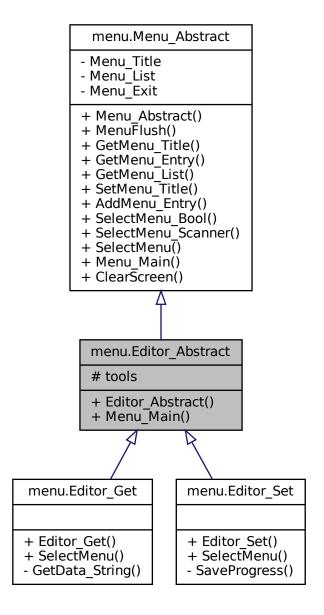
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/menu/Editor.java

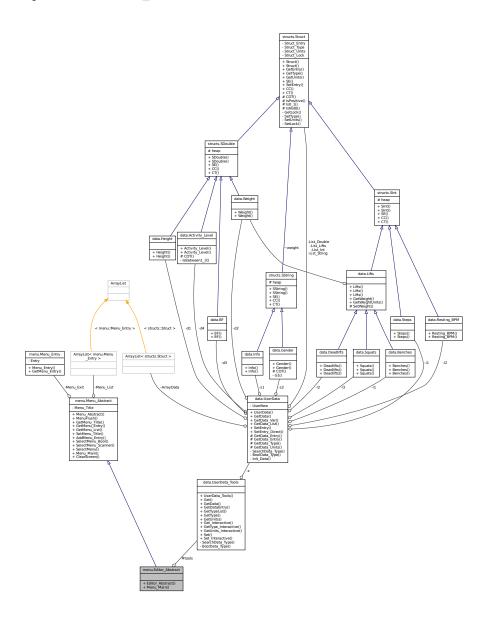
# 6.26 menu.Editor\_Abstract Class Reference

This class extends the abstract class Menu\_Abstract, which provides the structure for editing and viewing the #← UserData.

Inheritance diagram for menu. Editor\_Abstract:



Collaboration diagram for menu. Editor\_Abstract:



# **Public Member Functions**

- Editor\_Abstract (String Menu\_Title, UserData z)
  - Constructor that creates the menu title, and takes the current #UserData.
- void Menu\_Main (UserData z)

Main Menu loop to access other objects.

# **Protected Attributes**

• UserData\_Tools tools

Initializes the #UserData\_Tools as an object to retrieve information.

# **Additional Inherited Members**

# 6.26.1 Detailed Description

This class extends the abstract class Menu\_Abstract, which provides the structure for editing and viewing the #← UserData.

#### 6.26.2 Constructor & Destructor Documentation

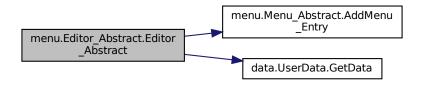
#### 6.26.2.1 Editor\_Abstract()

Constructor that creates the menu title, and takes the current #UserData.

#### **Parameters**

Menu_Title	The title of the editor interface.
Z	The #UserData to be edited or viewed.

Here is the call graph for this function:



#### 6.26.3 Member Function Documentation

### 6.26.3.1 Menu\_Main()

```
void menu.Editor_Abstract.Menu_Main ( UserData \ z )
```

Main Menu loop to access other objects.

Modified from the previous instance of  $\#Menu\_Abstract.Menu\_Main$  to accomodate the smaller array size of #CODATA when choosing which value to check.

#### **Parameters**

z Takes some #UserData to be passed through the program.

Reimplemented from menu.Menu\_Abstract.

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.26.4 Member Data Documentation

#### 6.26.4.1 tools

UserData\_Tools menu.Editor\_Abstract.tools [protected]

Initializes the #UserData\_Tools as an object to retrieve information.

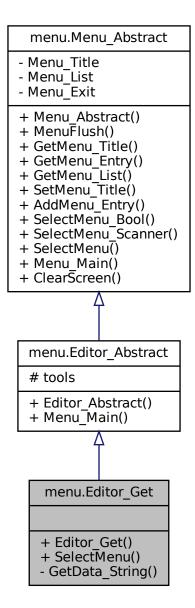
The documentation for this class was generated from the following file:

/home/jamie/java/forms\_project/src/lib/menu/Editor\_Abstract.java

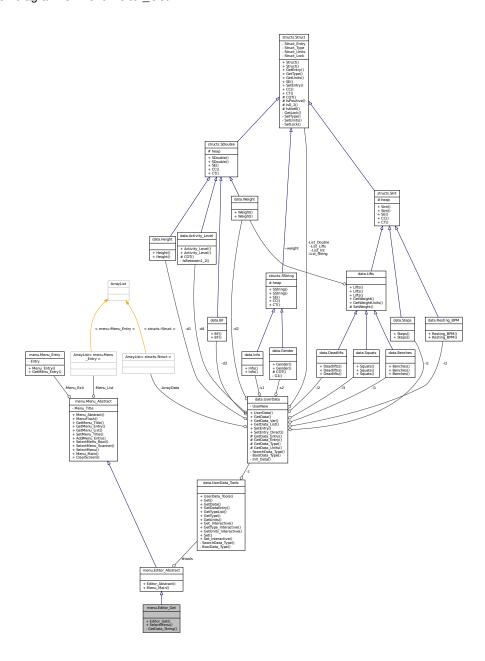
# 6.27 menu.Editor\_Get Class Reference

Class that provides a User Interface to Editor\_Abstract, specifically to get values.

Inheritance diagram for menu. Editor\_Get:



Collaboration diagram for menu. Editor\_Get:



# **Public Member Functions**

- Editor\_Get (UserData z)
  - Constructor that initializes the get menu.
- void SelectMenu (int choice, UserData z)

Shows user value when some choice is selected.

# **Private Member Functions**

• String GetData\_String (int choice)

Method to display the #UserData's values selected from the index chosen.

# **Additional Inherited Members**

# 6.27.1 Detailed Description

Class that provides a User Interface to Editor\_Abstract, specifically to get values.

# 6.27.2 Constructor & Destructor Documentation

#### 6.27.2.1 Editor\_Get()

Constructor that initializes the get menu.

#### **Parameters**

z The current #UserData values.

### 6.27.3 Member Function Documentation

# 6.27.3.1 GetData\_String()

Method to display the #UserData's values selected from the index chosen.

#### **Parameters**

choice Value to access the #choice index of the #UserData array.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 6.27.3.2 SelectMenu()

Shows user value when some choice is selected.

#### **Parameters**

choice	Some integer value that corresponds to the array index of what value should be shown.
Z	Not used. Inherited from Menu_Abstract.

Reimplemented from menu.Menu\_Abstract.

Here is the call graph for this function:



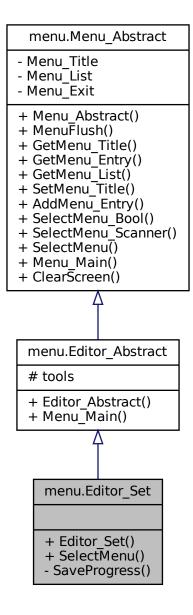
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/menu/Editor\_Get.java

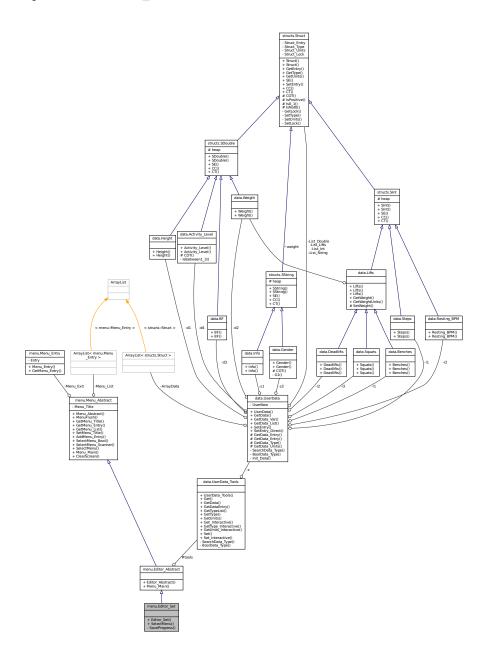
# 6.28 menu.Editor\_Set Class Reference

Class that creates a Menu user interface to edit any #UserData values.

Inheritance diagram for menu. Editor\_Set:



Collaboration diagram for menu.Editor\_Set:



# **Public Member Functions**

• Editor\_Set (UserData z)

Constructor that creates the Editor\_Set menu.

• void SelectMenu (int choice, UserData z)

Takes some value that corresponds to the array index of the #UserData that should be edited.

# **Private Member Functions**

• boolean SaveProgress (UserData ToUse)

# **Additional Inherited Members**

# 6.28.1 Detailed Description

Class that creates a Menu user interface to edit any #UserData values.

# 6.28.2 Constructor & Destructor Documentation

#### 6.28.2.1 Editor\_Set()

Constructor that creates the Editor\_Set menu.

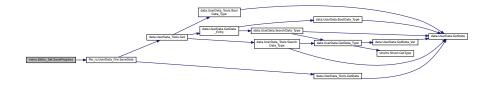
#### **Parameters**

z Takes some #UserData to be edited with.

#### 6.28.3 Member Function Documentation

# 6.28.3.1 SaveProgress()

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.28.3.2 SelectMenu()

Takes some value that corresponds to the array index of the #UserData that should be edited.

#### **Parameters**

choice	Chooses the array index that should be edited in #UserData.
Z	#UserData that should be edited.

Reimplemented from menu.Menu\_Abstract.

Here is the call graph for this function:

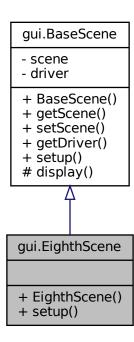


The documentation for this class was generated from the following file:

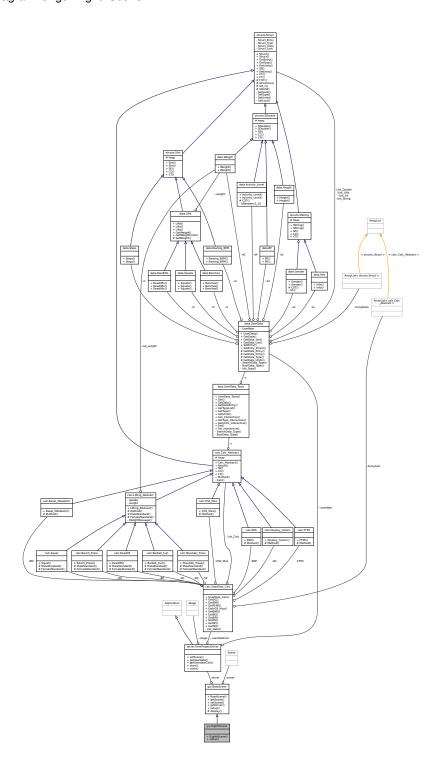
• /home/jamie/java/forms\_project/src/lib/menu/Editor\_Set.java

# 6.29 gui. EighthScene Class Reference

Inheritance diagram for gui. Eighth Scene:



Collaboration diagram for gui. EighthScene:



# **Public Member Functions**

- EighthScene (FormProjectDriver driver)
- void setup ()

Sets up the scene (the actual drawing)

# **Additional Inherited Members**

#### 6.29.1 Constructor & Destructor Documentation

#### 6.29.1.1 EighthScene()

# 6.29.2 Member Function Documentation

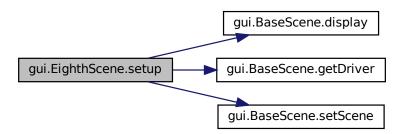
#### 6.29.2.1 setup()

```
void gui.EighthScene.setup ( )
```

Sets up the scene (the actual drawing)

Reimplemented from gui.BaseScene.

Here is the call graph for this function:



Here is the caller graph for this function:



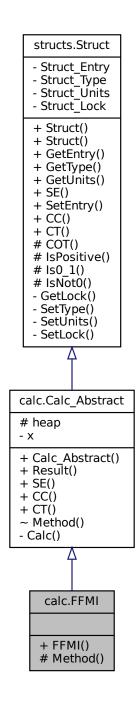
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/gui/gui/EighthScene.java

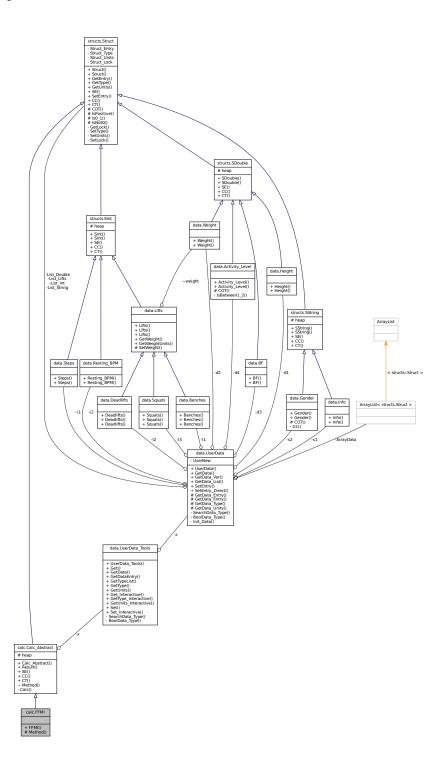
# 6.30 calc.FFMI Class Reference

Calculates and returns FFMI values.

Inheritance diagram for calc.FFMI:



# Collaboration diagram for calc.FFMI:



# **Public Member Functions**

• FFMI (UserData z)

Constructor for the class that uses #UserData.

# **Protected Member Functions**

• Object Method (UserData\_Tools use)

The body of the calculations.

# **Additional Inherited Members**

# 6.30.1 Detailed Description

Calculates and returns FFMI values.

# 6.30.2 Constructor & Destructor Documentation

#### 6.30.2.1 FFMI()

```
calc.FFMI.FFMI ( {\tt UserData}\ z\ )
```

Constructor for the class that uses #UserData.

#### **Parameters**

z User's data.

#### 6.30.3 Member Function Documentation

#### 6.30.3.1 Method()

```
Object calc.FFMI.Method (

UserData_Tools use ) [protected]
```

The body of the calculations.

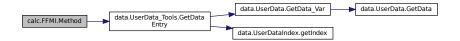
#### **Parameters**

use Instance of using the user's values to calculate the value of the class.

fat free mass = weight [kg] \* (1 - (body fat [%]/ 100)) FFMI = fat free mass [kg]/ (height [m]) $^2$  normalized FFMI = FFMI [kg/m $^2$ ] + 6.1 \* (1.8 - height [m])

Reimplemented from calc.Calc\_Abstract.

Here is the call graph for this function:

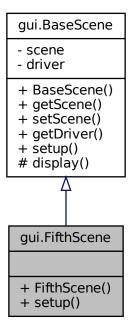


The documentation for this class was generated from the following file:

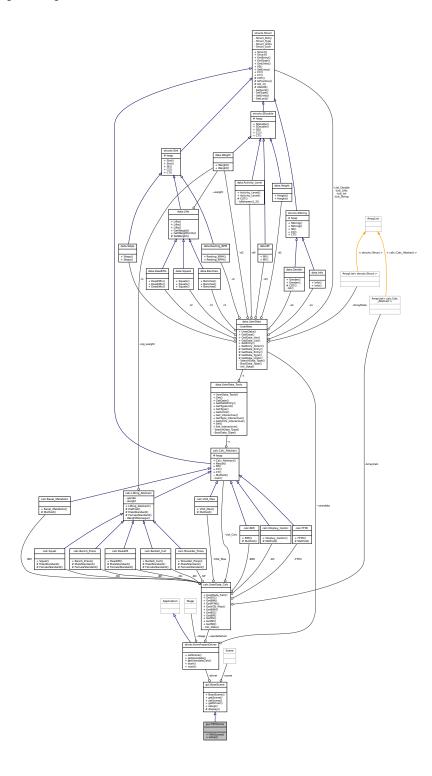
• /home/jamie/java/forms\_project/src/lib/calc/FFMI.java

# 6.31 gui.FifthScene Class Reference

Inheritance diagram for gui.FifthScene:



Collaboration diagram for gui.FifthScene:



# **Public Member Functions**

- FifthScene (FormProjectDriver driver)
- void setup ()

Sets up the scene (the actual drawing)

# **Additional Inherited Members**

#### 6.31.1 Constructor & Destructor Documentation

#### 6.31.1.1 FifthScene()

# 6.31.2 Member Function Documentation

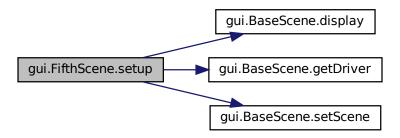
#### 6.31.2.1 setup()

```
void gui.FifthScene.setup ( )
```

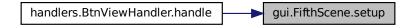
Sets up the scene (the actual drawing)

Reimplemented from gui.BaseScene.

Here is the call graph for this function:



Here is the caller graph for this function:

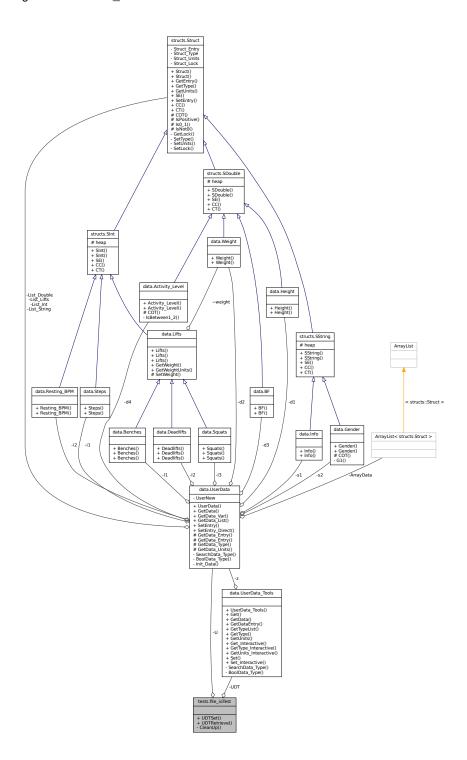


The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/gui/gui/FifthScene.java

# 6.32 tests.file\_ioTest Class Reference

Collaboration diagram for tests.file\_ioTest:



# **Public Member Functions**

- void UDTSet ()
- void UDTRetrieve ()

# **Private Member Functions**

• void CleanUp ()

#### **Private Attributes**

- UserData U = new UserData()
- UserData\_Tools UDT = new UserData\_Tools(U)

# 6.32.1 Member Function Documentation

# 6.32.1.1 CleanUp()

```
void tests.file_ioTest.CleanUp ( ) [private]
```

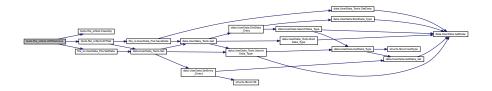
Here is the caller graph for this function:



# 6.32.1.2 UDTRetrieve()

```
void tests.file_ioTest.UDTRetrieve ( )
```

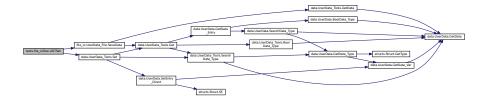
Here is the call graph for this function:



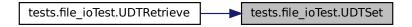
## 6.32.1.3 UDTSet()

```
void tests.file_ioTest.UDTSet ( )
```

Here is the call graph for this function:



Here is the caller graph for this function:



#### 6.32.2 Member Data Documentation

## 6.32.2.1 U

```
UserData tests.file_ioTest.U = new UserData() [private]
```

## 6.32.2.2 UDT

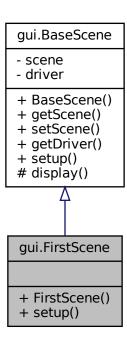
```
UserData_Tools tests.file_ioTest.UDT = new UserData_Tools(U) [private]
```

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

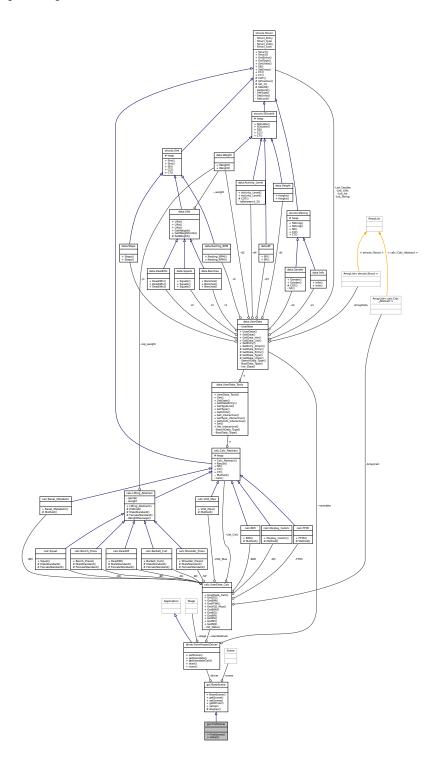
• /home/jamie/java/forms\_project/src/lib/tests/file\_ioTest.java

# 6.33 gui.FirstScene Class Reference

Inheritance diagram for gui.FirstScene:



Collaboration diagram for gui.FirstScene:



## **Public Member Functions**

- FirstScene (FormProjectDriver driver)
- void setup ()

Sets up the scene (the actual drawing)

## **Additional Inherited Members**

## 6.33.1 Constructor & Destructor Documentation

#### 6.33.1.1 FirstScene()

#### 6.33.2 Member Function Documentation

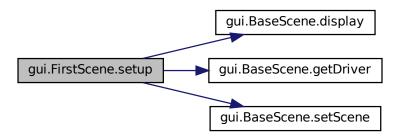
## 6.33.2.1 setup()

```
void gui.FirstScene.setup ( )
```

Sets up the scene (the actual drawing)

Reimplemented from gui.BaseScene.

Here is the call graph for this function:



Here is the caller graph for this function:



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

• /home/jamie/java/forms\_project/src/lib/gui/gui/FirstScene.java

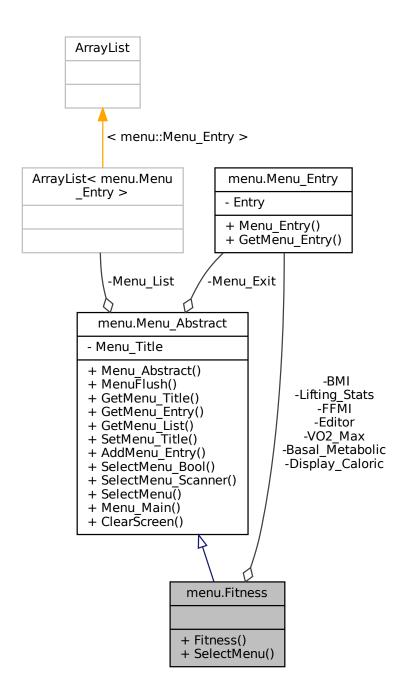
## 6.34 menu.Fitness Class Reference

The Menu Interface for the Fitness class.

Inheritance diagram for menu. Fitness:

# menu.Menu\_Abstract - Menu Title - Menu List - Menu Exit + Menu\_Abstract() + MenuFlush() + GetMenu\_Title() + GetMenu\_Entry() + GetMenu\_List() + SetMenu Title() + AddMenu\_Entry() + SelectMenu\_Bool() + SelectMenu Scanner() + SelectMenu() + Menu\_Main() + ClearScreen() menu.Fitness - Editor Display\_CaloricBasal\_Metabolic - FFMI - VO2 Max - BMI - Lifting\_Stats + Fitness() + SelectMenu()

Collaboration diagram for menu. Fitness:



#### **Public Member Functions**

• Fitness ()

Constructor that builds the Menu interface for Fitness.

• void SelectMenu (int choice, UserData z)

Accesses the objects of Fitness, and does calculations on the fly.

#### **Private Attributes**

• Menu\_Entry Editor = new Menu\_Entry("View/Edit User Data")

#Menu\_Entry to access the Editor class.

Menu\_Entry Display\_Caloric = new Menu\_Entry("Daily Caloric Requirements")

#Menu Entry to access the Display Caloric class.

Menu\_Entry Basal\_Metabolic = new Menu\_Entry("Basal Metabolic Rate")

#Menu\_Entry to access the Basal\_Metabolic class.

Menu\_Entry FFMI = new Menu\_Entry("Fat Free Mass Index & Ranges")

#Menu\_Entry to access the FFMI class.

Menu\_Entry VO2\_Max = new Menu\_Entry("VO2 Max")

#Menu\_Entry to access the VO2\_Max class.

Menu Entry BMI = new Menu Entry("BMI & Range")

#Menu\_Entry to access the BMI class.

• Menu\_Entry Lifting\_Stats = new Menu\_Entry("Lifting Stats")

#Menu\_Entry to access the Lifting\_Stats class.

#### **Additional Inherited Members**

## 6.34.1 Detailed Description

The Menu Interface for the Fitness class.

Runs calculations on the fly as needed.

#### 6.34.2 Constructor & Destructor Documentation

#### 6.34.2.1 Fitness()

```
menu.Fitness.Fitness ( )
```

Constructor that builds the Menu interface for Fitness.

Here is the call graph for this function:



## 6.34.3 Member Function Documentation

## 6.34.3.1 SelectMenu()

```
void menu.
Fitness.
SelectMenu ( int\ choice, UserData\ z\ )
```

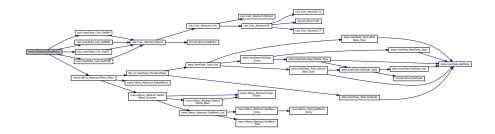
Accesses the objects of Fitness, and does calculations on the fly.

#### **Parameters**

choice	Selects which object to access or return a value to the user.
Z	#UserData that should be used for calculations.

Reimplemented from menu.Menu\_Abstract.

Here is the call graph for this function:



#### 6.34.4 Member Data Documentation

## 6.34.4.1 Basal\_Metabolic

```
Menu_Entry menu.Fitness.Basal_Metabolic = new Menu_Entry("Basal Metabolic Rate") [private]
#Menu_Entry to access the Basal_Metabolic class.
```

## 6.34.4.2 BMI

```
Menu_Entry menu.Fitness.BMI = new Menu_Entry("BMI & Range") [private]
```

#Menu\_Entry to access the BMI class.

## 6.34.4.3 Display\_Caloric

```
Menu_Entry menu.Fitness.Display_Caloric = new Menu_Entry("Daily Caloric Requirements") [private]
#Menu_Entry to access the Display_Caloric class.
```

#### 6.34.4.4 Editor

```
Menu_Entry menu.Fitness.Editor = new Menu_Entry("View/Edit User Data") [private]
#Menu_Entry to access the Editor class.
```

#### 6.34.4.5 FFMI

```
Menu_Entry menu.Fitness.FFMI = new Menu_Entry("Fat Free Mass Index & Ranges") [private]
#Menu_Entry to access the FFMI class.
```

## 6.34.4.6 Lifting\_Stats

```
Menu_Entry menu.Fitness.Lifting_Stats = new Menu_Entry("Lifting Stats") [private]
#Menu_Entry to access the Lifting_Stats class.
```

## 6.34.4.7 VO2\_Max

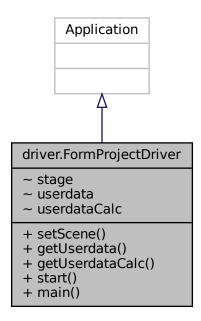
```
Menu_Entry menu.Fitness.VO2_Max = new Menu_Entry("VO2 Max") [private]
#Menu_Entry to access the VO2_Max class.
```

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

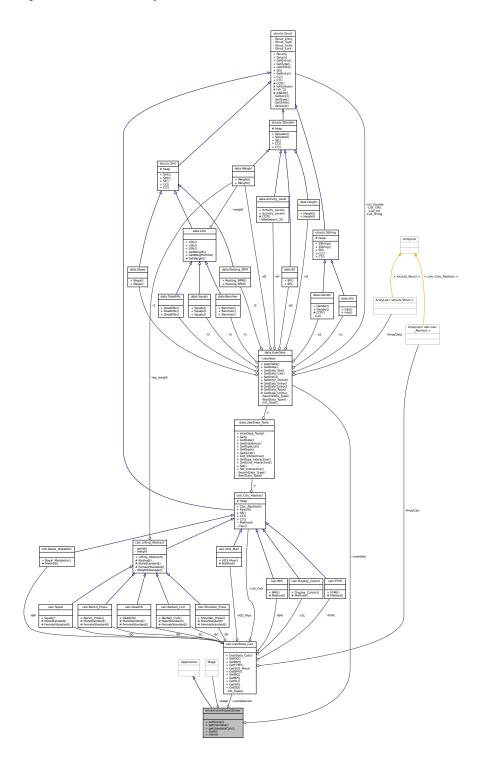
/home/jamie/java/forms\_project/src/lib/menu/Fitness.java

# 6.35 driver.FormProjectDriver Class Reference

Inheritance diagram for driver.FormProjectDriver:



Collaboration diagram for driver.FormProjectDriver:



## **Public Member Functions**

- void setScene (Scene scene)
- UserData getUserdata ()
- UserData\_Calc getUserdataCalc ()
- void start (Stage stage)

## **Static Public Member Functions**

• static void main (String[] args)

## **Package Attributes**

• Stage stage

## **Static Package Attributes**

- static UserData userdata = new UserData()
- static UserData\_Calc userdataCalc = new UserData\_Calc(userdata)

#### 6.35.1 Member Function Documentation

#### 6.35.1.1 getUserdata()

```
UserData driver.FormProjectDriver.getUserdata ( )
```

Here is the caller graph for this function:



## 6.35.1.2 getUserdataCalc()

```
UserData_Calc driver.FormProjectDriver.getUserdataCalc ( )
```

## 6.35.1.3 main()

#### 6.35.1.4 setScene()

```
void driver.FormProjectDriver.setScene ( Scene \ scene \ )
```

#### 6.35.1.5 start()

Here is the call graph for this function:



## 6.35.2 Member Data Documentation

## 6.35.2.1 stage

Stage driver.FormProjectDriver.stage [package]

#### 6.35.2.2 userdata

```
UserData driver.FormProjectDriver.userdata = new UserData() [static], [package]
```

#### 6.35.2.3 userdataCalc

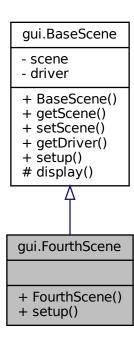
```
UserData_Calc driver.FormProjectDriver.userdataCalc = new UserData_Calc(userdata) [static],
[package]
```

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

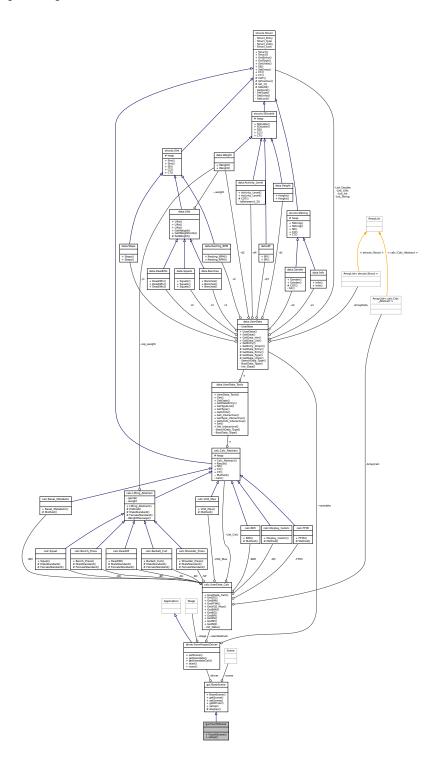
/home/jamie/java/forms\_project/src/lib/gui/driver/FormProjectDriver.java

# 6.36 gui.FourthScene Class Reference

Inheritance diagram for gui. FourthScene:



Collaboration diagram for gui.FourthScene:



## **Public Member Functions**

- FourthScene (FormProjectDriver driver)
- void setup ()

Sets up the scene (the actual drawing)

## **Additional Inherited Members**

#### 6.36.1 Constructor & Destructor Documentation

#### 6.36.1.1 FourthScene()

## 6.36.2 Member Function Documentation

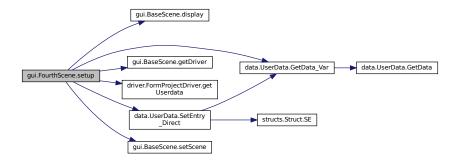
## 6.36.2.1 setup()

```
void gui.FourthScene.setup ( )
```

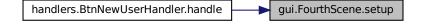
Sets up the scene (the actual drawing)

Reimplemented from gui.BaseScene.

Here is the call graph for this function:



Here is the caller graph for this function:



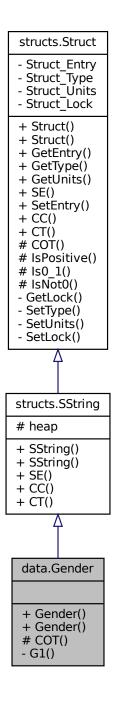
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/gui/gui/FourthScene.java

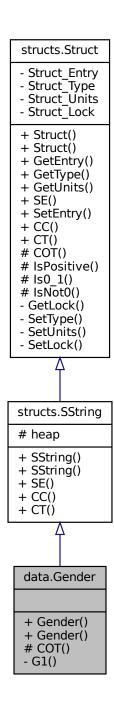
## 6.37 data.Gender Class Reference

The class that holds the user's Gender.

Inheritance diagram for data. Gender:



Collaboration diagram for data.Gender:



#### **Public Member Functions**

• Gender ()

Constructor with a null value.

• Gender (String o)

Constructor with a defined value.

## **Protected Member Functions**

• boolean COT (Object o)

Checks whether the Gender entry is valid.

#### **Private Member Functions**

• boolean G1 (Object o)

Checks whether the Gender is male or female, or returns false if invalid.

## **Additional Inherited Members**

## 6.37.1 Detailed Description

The class that holds the user's Gender.

#### 6.37.2 Constructor & Destructor Documentation

## 6.37.2.1 Gender() [1/2]

```
data.Gender.Gender ( )
```

Constructor with a null value.

## 6.37.2.2 Gender() [2/2]

```
data.Gender.Gender ( String \ o \ )
```

Constructor with a defined value.

## 6.37.3 Member Function Documentation

#### 6.37.3.1 COT()

Checks whether the Gender entry is valid.

#### **Parameters**

o The string containing the gender.

Reimplemented from structs.Struct.

Here is the call graph for this function:



## 6.37.3.2 G1()

```
boolean data.
Gender.
G1 ( \mbox{Object }o\mbox{ ) }\mbox{ [private]}
```

Checks whether the Gender is male or female, or returns false if invalid.

#### **Parameters**

o The string containing the gender.

Here is the caller graph for this function:



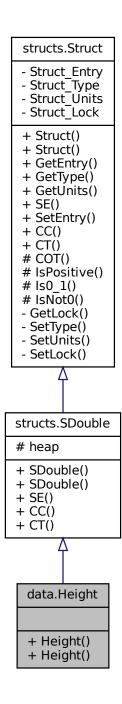
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/data/Gender.java

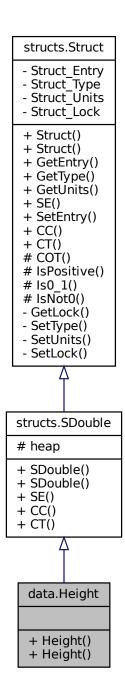
# 6.38 data. Height Class Reference

The class that holds Height data.

Inheritance diagram for data. Height:



Collaboration diagram for data. Height:



#### **Public Member Functions**

• Height ()

Constructor with a null value.

• Height (double o)

Constructor with a defined value.

## **Additional Inherited Members**

## 6.38.1 Detailed Description

The class that holds Height data.

#### 6.38.2 Constructor & Destructor Documentation

## 6.38.2.1 Height() [1/2]

```
data.Height.Height ( )
```

Constructor with a null value.

#### 6.38.2.2 Height() [2/2]

```
data.Height.Height ( double o )
```

Constructor with a defined value.

#### **Parameters**

o The value of the class.

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

• /home/jamie/java/forms\_project/src/lib/data/Height.java

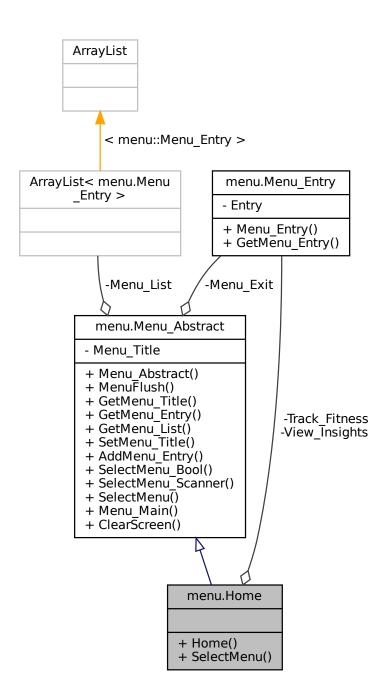
## 6.39 menu. Home Class Reference

The Home Menu interface.

Inheritance diagram for menu. Home:

# 

Collaboration diagram for menu. Home:



#### **Public Member Functions**

• Home ()

Constructor that builds the Home menu interface.

• void SelectMenu (int choice, UserData z)

Accesses the menu entries.

## **Private Attributes**

```
    Menu_Entry Track_Fitness = new Menu_Entry("Track Fitness")
    #Menu_Entry to Track_Fitness.
```

Menu\_Entry View\_Insights = new Menu\_Entry("View Insights")
 #Menu\_Entry to View\_Insights.

## **Additional Inherited Members**

## 6.39.1 Detailed Description

The Home Menu interface.

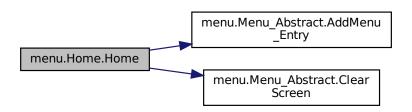
#### 6.39.2 Constructor & Destructor Documentation

#### 6.39.2.1 Home()

```
menu.Home.Home ( )
```

Constructor that builds the Home menu interface.

Here is the call graph for this function:



## 6.39.3 Member Function Documentation

## 6.39.3.1 SelectMenu()

```
void menu.
Home.
Select<br/>Menu ( \mbox{int $choice,$} \mbox{UserData $z$ )}
```

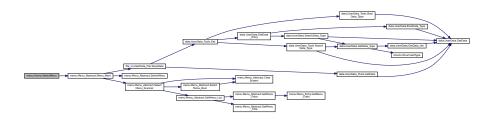
Accesses the menu entries.

#### **Parameters**

choice	Integer value to access a certain value.
Z	#UserData that should be used to be passed through the interface.

Reimplemented from menu.Menu\_Abstract.

Here is the call graph for this function:



#### 6.39.4 Member Data Documentation

## 6.39.4.1 Track\_Fitness

Menu\_Entry menu.Home.Track\_Fitness = new Menu\_Entry("Track Fitness") [private]

#Menu\_Entry to Track\_Fitness.

## 6.39.4.2 View\_Insights

Menu\_Entry menu.Home.View\_Insights = new Menu\_Entry("View Insights") [private]

#Menu\_Entry to View\_Insights.

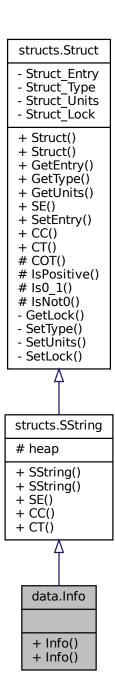
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/menu/Home.java

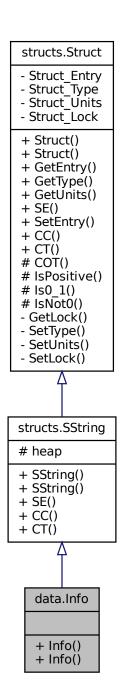
## 6.40 data.Info Class Reference

The class that holds the user's Info.

Inheritance diagram for data.Info:



Collaboration diagram for data.Info:



#### **Public Member Functions**

- Info ()
  - Constructor with a null value.
- Info (String o)
  - Constructor with a defined value.

## **Additional Inherited Members**

## 6.40.1 Detailed Description

The class that holds the user's Info.

## 6.40.2 Constructor & Destructor Documentation

```
6.40.2.1 Info() [1/2]
```

```
data.Info.Info ( )
```

Constructor with a null value.

#### 6.40.2.2 Info() [2/2]

Constructor with a defined value.

#### **Parameters**

o The value of the class.

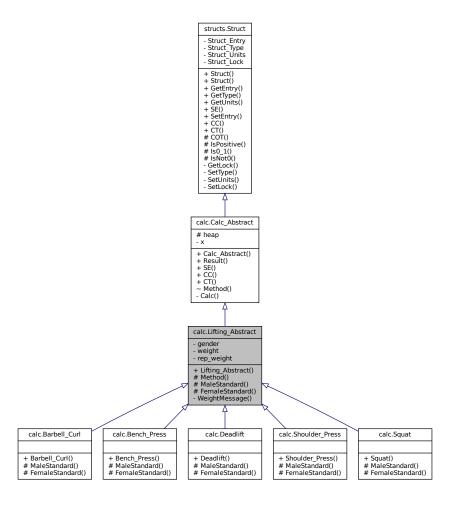
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/data/Info.java

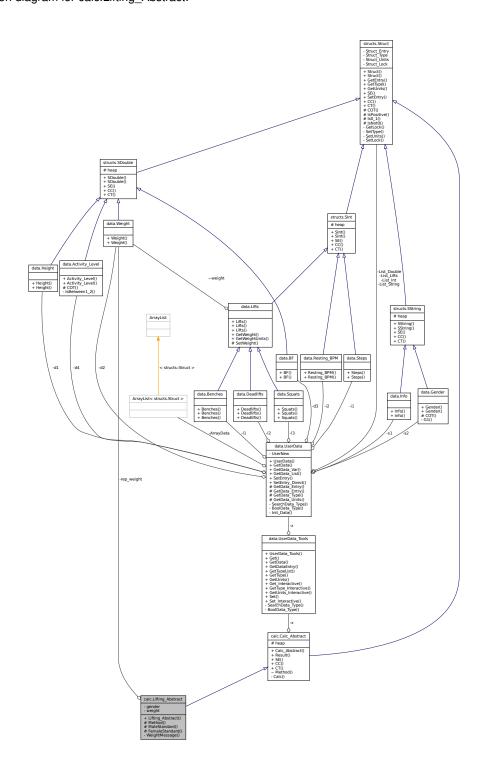
## 6.41 calc.Lifting\_Abstract Class Reference

Calculates and returns Lifting Stats values.

Inheritance diagram for calc.Lifting\_Abstract:



Collaboration diagram for calc.Lifting\_Abstract:



## **Public Member Functions**

• Lifting\_Abstract (UserData z, String newType)

Constructor for the class that uses #UserData.

## **Protected Member Functions**

- Object Method (UserData\_Tools use)
  - The body of the calculations.
- abstract String MaleStandard (int weight, int rweight)
- abstract String FemaleStandard (int weight, int rweight)

#### **Private Member Functions**

• String WeightMessage (String gender, double pweight, double prep\_weight)

#### **Private Attributes**

- · String gender
- · double weight
- · Weight rep\_weight

## **Additional Inherited Members**

## 6.41.1 Detailed Description

Calculates and returns Lifting Stats values.

#### 6.41.2 Constructor & Destructor Documentation

## 6.41.2.1 Lifting\_Abstract()

Constructor for the class that uses #UserData.

#### **Parameters**

```
z User's data.
```

## 6.41.3 Member Function Documentation

#### 6.41.3.1 FemaleStandard()

Reimplemented in calc.Barbell\_Curl, calc.Bench\_Press, calc.Deadlift, calc.Shoulder\_Press, and calc.Squat.

Here is the caller graph for this function:



#### 6.41.3.2 MaleStandard()

Reimplemented in calc.Barbell\_Curl, calc.Bench\_Press, calc.Deadlift, calc.Shoulder\_Press, and calc.Squat.

Here is the caller graph for this function:



#### 6.41.3.3 Method()

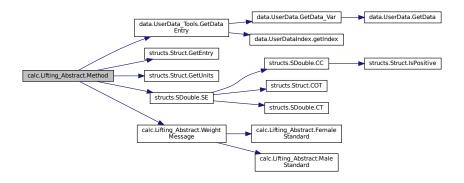
The body of the calculations.

#### **Parameters**

*use* Instance of using the user's values to calculate the value of the class.

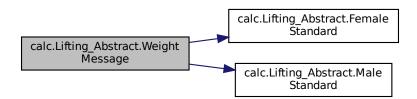
Reimplemented from calc.Calc\_Abstract.

Here is the call graph for this function:

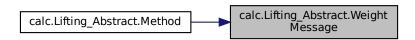


## 6.41.3.4 WeightMessage()

Here is the call graph for this function:



Here is the caller graph for this function:



## 6.41.4 Member Data Documentation

## 6.41.4.1 gender

String calc.Lifting\_Abstract.gender [private]

## 6.41.4.2 rep\_weight

Weight calc.Lifting\_Abstract.rep\_weight [private]

## 6.41.4.3 weight

double calc.Lifting\_Abstract.weight [private]

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

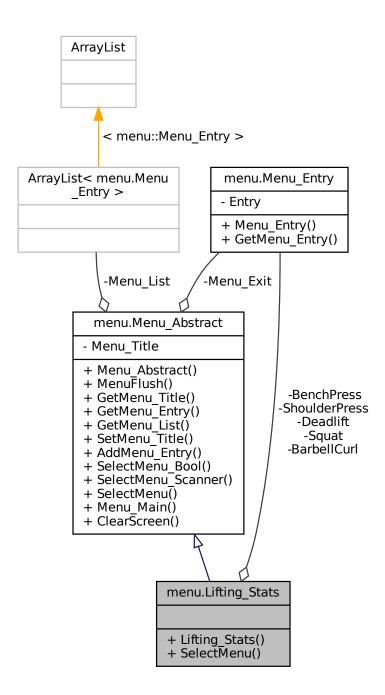
• /home/jamie/java/forms\_project/src/lib/calc/Lifting\_Abstract.java

# 6.42 menu.Lifting\_Stats Class Reference

Inheritance diagram for menu.Lifting Stats:

# menu.Menu\_Abstract - Menu Title - Menu\_List - Menu Exit + Menu\_Abstract() + MenuFlush() + GetMenu\_Title() + GetMenu\_Entry() + GetMenu\_List() + SetMenu\_Title() + AddMenu\_Entry() + SelectMenu\_Bool() + SelectMenu\_Scanner() + SelectMenu() + Menu\_Main() + ClearScreen() menu.Lifting\_Stats - BarbellCurl - BenchPress - Deadlift - ShoulderPress - Squat + Lifting\_Stats() + SelectMenu()

Collaboration diagram for menu.Lifting\_Stats:



### **Public Member Functions**

- Lifting\_Stats ()
- void SelectMenu (int choice, UserData z)

Abstract class that forces the coder to generate the current menu entries manually.

### **Private Attributes**

- Menu\_Entry BarbellCurl = new Menu\_Entry("Barbell Curl")
- Menu\_Entry BenchPress = new Menu\_Entry("Bench Press")
- Menu Entry Deadlift = new Menu Entry("Deadlift")
- Menu\_Entry ShoulderPress = new Menu\_Entry("Shoulder Press")
- Menu\_Entry Squat = new Menu\_Entry("Squat")

# **Additional Inherited Members**

### 6.42.1 Constructor & Destructor Documentation

# 6.42.1.1 Lifting\_Stats()

```
menu.Lifting_Stats.Lifting_Stats ( )
```

Here is the call graph for this function:



# 6.42.2 Member Function Documentation

#### 6.42.2.1 SelectMenu()

```
void menu.Lifting_Stats.SelectMenu ( int\ choice, UserData\ z\ )
```

Abstract class that forces the coder to generate the current menu entries manually.

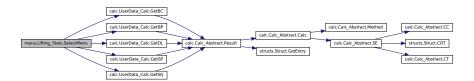
May be obseleted for the GUI due to SelectMenu\_Scanner being bypassed.

### **Parameters**

choice	Choice that will be sent to the SelectMenu method.
Z	#UserData that should be passed to other classes.

Reimplemented from menu.Menu\_Abstract.

Here is the call graph for this function:



#### 6.42.3 Member Data Documentation

#### 6.42.3.1 BarbellCurl

Menu\_Entry menu.Lifting\_Stats.BarbellCurl = new Menu\_Entry("Barbell Curl") [private]

#### 6.42.3.2 BenchPress

Menu\_Entry menu.Lifting\_Stats.BenchPress = new Menu\_Entry("Bench Press") [private]

# 6.42.3.3 Deadlift

Menu\_Entry menu.Lifting\_Stats.Deadlift = new Menu\_Entry("Deadlift") [private]

### 6.42.3.4 ShoulderPress

Menu\_Entry menu.Lifting\_Stats.ShoulderPress = new Menu\_Entry("Shoulder Press") [private]

# 6.42.3.5 Squat

Menu\_Entry menu.Lifting\_Stats.Squat = new Menu\_Entry("Squat") [private]

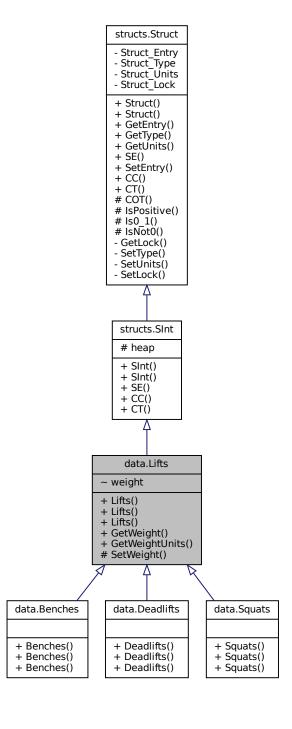
The documentation for this class was generated from the following file:

/home/jamie/java/forms\_project/src/lib/menu/Lifting\_Stats.java

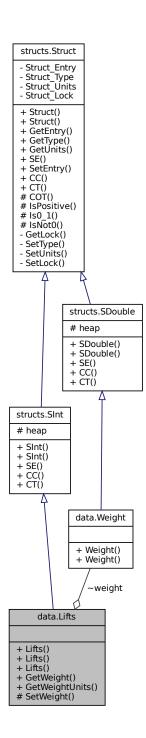
# 6.43 data.Lifts Class Reference

The abstract class that defines the lifts, using also the Weight class as an object.

Inheritance diagram for data.Lifts:



Collaboration diagram for data.Lifts:



# **Public Member Functions**

• Lifts (String Type)

Constructor to define the type of exercise.

• Lifts (int o, String Type)

Constructor to define the amount of reps for the exercise.

• Lifts (int o, double p, String Type)

Constructor to define the amount of reps on a certain weight per exercise.

• double GetWeight ()

Gets the double value of the weight used for the exercise.

• String GetWeightUnits ()

Gets the weight units for the exercise.

# **Protected Member Functions**

void SetWeight (double o)
 Sets the weight for the exercise.

# **Package Attributes**

· Weight weight

Define the weight of the reps taken.

### **Additional Inherited Members**

# 6.43.1 Detailed Description

The abstract class that defines the lifts, using also the Weight class as an object.

### 6.43.2 Constructor & Destructor Documentation

### 6.43.2.1 Lifts() [1/3]

Constructor to define the type of exercise.

### **Parameters**

Type The type of lifting exercise.

# 6.43.2.2 Lifts() [2/3]

```
data.Lifts.Lifts ( \quad \text{int } o, \\ \quad \text{String } \textit{Type} \ )
```

Constructor to define the amount of reps for the exercise.

### **Parameters**

0	The amount of reps for the exercise.
Туре	The type of lifting exercise.

# 6.43.2.3 Lifts() [3/3]

Constructor to define the amount of reps on a certain weight per exercise.

### **Parameters**

0	The amount of reps for the exercise.
р	The weight used for the exercise.
Туре	The type of lifting exercise.

# 6.43.3 Member Function Documentation

# 6.43.3.1 GetWeight()

```
double data.Lifts.GetWeight ( )
```

Gets the double value of the weight used for the exercise.

# Returns

#weight.GetEntry()

Here is the call graph for this function:



# 6.43.3.2 GetWeightUnits()

```
String data.Lifts.GetWeightUnits ( )
```

Gets the weight units for the exercise.

Returns

#weight.GetUnits()

Here is the call graph for this function:



### 6.43.3.3 SetWeight()

```
void data.Lifts.SetWeight ( \label{eq:condition} \texttt{double} \ o \ ) \quad [\texttt{protected}]
```

Sets the weight for the exercise.

#### **Parameters**

o The weight of the exercise.

Here is the call graph for this function:



### 6.43.4 Member Data Documentation

# 6.43.4.1 weight

```
Weight data.Lifts.weight [package]
```

Define the weight of the reps taken.

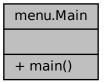
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/data/Lifts.java

# 6.44 menu. Main Class Reference

The main class that runs the TUI.

Collaboration diagram for menu.Main:



# **Static Public Member Functions**

• static void main (String[] args)

Main object that is run at runtime.

# 6.44.1 Detailed Description

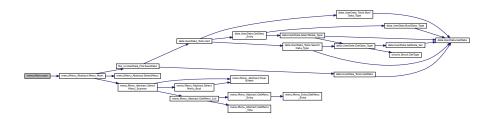
The main class that runs the TUI.

# 6.44.2 Member Function Documentation

### 6.44.2.1 main()

Main object that is run at runtime.

Maybe might take in user data if needed. Here is the call graph for this function:



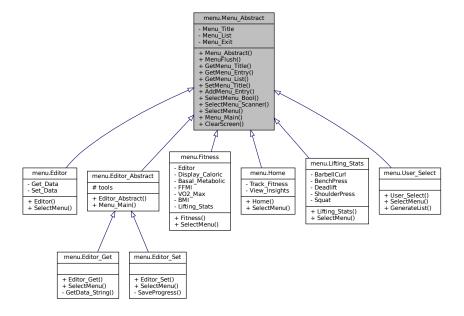
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/menu/Main.java

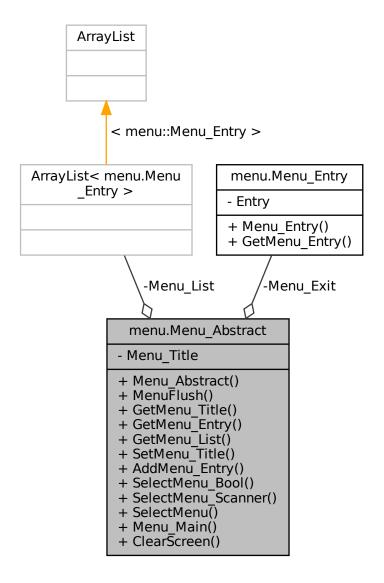
# 6.45 menu.Menu\_Abstract Class Reference

The template class that provides the skeleton menu interface.

Inheritance diagram for menu.Menu\_Abstract:



Collaboration diagram for menu.Menu\_Abstract:



# **Public Member Functions**

Menu\_Abstract (String Menu\_Title)

Constructor that builds the menu itself.

- void MenuFlush ()
- String GetMenu\_Title ()

Returns the Menu's title.

String GetMenu\_Entry (Menu\_Entry Entry)

Method to retrieve the current menu's #Menu\_Entry to be displayed.

• String GetMenu List ()

Retrieves a list of entries of #Menu\_Entry for the current menu, and returns it to the user.

• void SetMenu\_Title (String Menu\_Title)

Sets the current Menu's title.

void AddMenu\_Entry (Menu\_Entry NewEntry)

Adds #Menu\_Entry to the Menu\_List array.

• boolean SelectMenu\_Bool (int choice)

Checks if the selected menu entry is considered valid.

• int SelectMenu\_Scanner ()

Main method that takes the user input from the TUI.

• abstract void SelectMenu (int choice, UserData z)

Abstract class that forces the coder to generate the current menu entries manually.

void Menu\_Main (UserData z)

The main loop that bring the TUI interface for the user.

#### Static Public Member Functions

• static void ClearScreen ()

Clears the current screen, refresh in a sense, without building too much buffer on the screen.

### **Private Attributes**

• String Menu\_Title

The title of the current menu.

ArrayList< Menu\_Entry > Menu\_List = new ArrayList<Menu\_Entry>()

ArrayList of #Menu\_Entry to be displayed on the interface.

• Menu Entry Menu Exit = new Menu Entry("Exit")

#Menu\_Entry to display an exit option.

# 6.45.1 Detailed Description

The template class that provides the skeleton menu interface.

# 6.45.2 Constructor & Destructor Documentation

### 6.45.2.1 Menu\_Abstract()

Constructor that builds the menu itself.

#### **Parameters**

Menu_Title	Name of the Menu.
------------	-------------------

Here is the call graph for this function:



### 6.45.3 Member Function Documentation

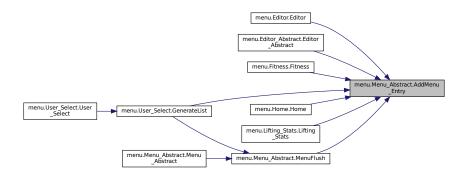
### 6.45.3.1 AddMenu\_Entry()

Adds #Menu\_Entry to the Menu\_List array.

#### **Parameters**

NewEntry New menu entry to add to the current menu.

Here is the caller graph for this function:

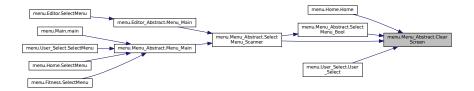


# 6.45.3.2 ClearScreen()

```
static void menu.Menu_Abstract.ClearScreen ( ) [static]
```

Clears the current screen, refresh in a sense, without building too much buffer on the screen.

Here is the caller graph for this function:



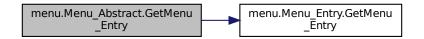
### 6.45.3.3 GetMenu\_Entry()

Method to retrieve the current menu's #Menu\_Entry to be displayed.

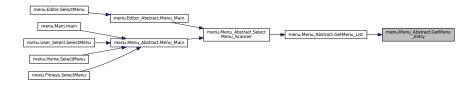
### Returns

#Menu\_Entry.GetMenu\_Entry() for the user.

Here is the call graph for this function:



Here is the caller graph for this function:



### 6.45.3.4 GetMenu\_List()

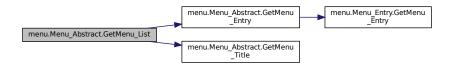
```
String menu.Menu_Abstract.GetMenu_List ( )
```

Retrieves a list of entries of #Menu\_Entry for the current menu, and returns it to the user.

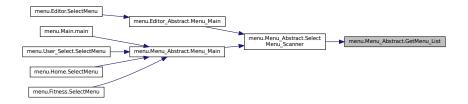
Returns

#ArrayStringed, or the current menu in String form.

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.45.3.5 GetMenu\_Title()

```
String menu.Menu_Abstract.GetMenu_Title ( )
```

Returns the Menu's title.

Returns

Menu\_Title.

Here is the caller graph for this function:



### 6.45.3.6 Menu\_Main()

```
void menu.Menu_Abstract.Menu_Main ( {\tt UserData}\ z\ )
```

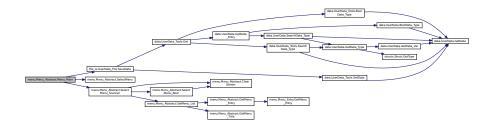
The main loop that bring the TUI interface for the user.

### **Parameters**

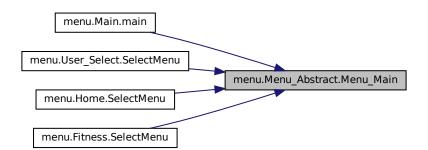
z The #UserData that should be passed on to other methods.

Reimplemented in menu. Editor\_Abstract.

Here is the call graph for this function:



Here is the caller graph for this function:



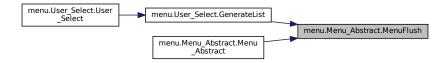
# 6.45.3.7 MenuFlush()

void menu.Menu\_Abstract.MenuFlush ( )

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.45.3.8 SelectMenu()

```
abstract void menu.Menu_Abstract.SelectMenu ( int\ choice, UserData\ z\ )\ [abstract]
```

Abstract class that forces the coder to generate the current menu entries manually.

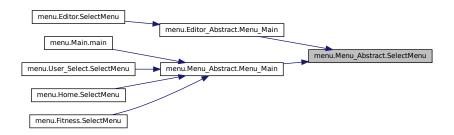
May be obseleted for the GUI due to SelectMenu\_Scanner being bypassed.

#### **Parameters**

choice	Choice that will be sent to the SelectMenu method.
Z	#UserData that should be passed to other classes.

Reimplemented in menu. Fitness, menu. Home, menu. Editor, menu. Editor\_Set, menu. Editor\_Get, menu. Lifting\_Stats, and menu. User\_Select.

Here is the caller graph for this function:



# 6.45.3.9 SelectMenu\_Bool()

Checks if the selected menu entry is considered valid.

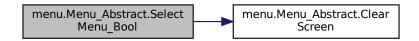
#### **Parameters**

choice Choice chosen from the user input to check if the value is within the menu's size.

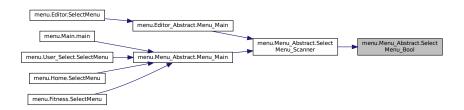
### Returns

True if choice is valid. False if otherwise.

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.45.3.10 SelectMenu\_Scanner()

```
int menu.Menu_Abstract.SelectMenu_Scanner ( )
```

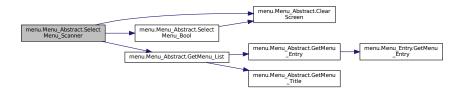
Main method that takes the user input from the TUI.

May become obsolete if GUI is chosen.

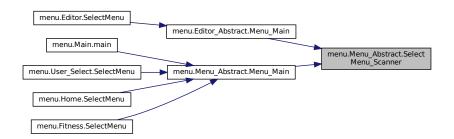
### Returns

Integer that accesses the other objects on the menu.

Here is the call graph for this function:



Here is the caller graph for this function:



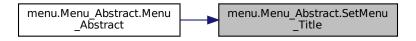
# 6.45.3.11 SetMenu\_Title()

Sets the current Menu's title.

#### **Parameters**

Menu_Title	Sets the current menu's title.	
------------	--------------------------------	--

Here is the caller graph for this function:



### 6.45.4 Member Data Documentation

### 6.45.4.1 Menu\_Exit

```
Menu_Entry menu.Menu_Abstract.Menu_Exit = new Menu_Entry("Exit") [private]
```

#Menu\_Entry to display an exit option.

### 6.45.4.2 Menu\_List

```
ArrayList<Menu_Entry> menu.Menu_Abstract.Menu_List = new ArrayList<Menu_Entry>() [private]
```

ArrayList of #Menu\_Entry to be displayed on the interface.

### 6.45.4.3 Menu\_Title

```
String menu.Menu_Abstract.Menu_Title [private]
```

The title of the current menu.

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

/home/jamie/java/forms\_project/src/lib/menu/Menu\_Abstract.java

# 6.46 menu.Menu\_Entry Class Reference

Class that provides the entry data structure.

Collaboration diagram for menu.Menu\_Entry:

```
menu.Menu_Entry
- Entry
+ Menu_Entry()
+ GetMenu_Entry()
```

# **Public Member Functions**

```
    Menu_Entry (String Entry)
        Constructor that builds the current entry.
```

• String GetMenu\_Entry ()

Gets the value of the Entry.

### **Private Attributes**

• String Entry

The name of the current entry.

# 6.46.1 Detailed Description

Class that provides the entry data structure.

# 6.46.2 Constructor & Destructor Documentation

### 6.46.2.1 Menu\_Entry()

Constructor that builds the current entry.

# 6.46.3 Member Function Documentation

# 6.46.3.1 GetMenu\_Entry()

String menu.Menu\_Entry.GetMenu\_Entry ( )

Gets the value of the Entry.

Returns

#Menu\_Entry.Entry

Here is the caller graph for this function:



### 6.46.4 Member Data Documentation

### 6.46.4.1 Entry

String menu.Menu\_Entry.Entry [private]

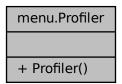
The name of the current entry.

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

• /home/jamie/java/forms\_project/src/lib/menu/Menu\_Entry.java

# 6.47 menu. Profiler Class Reference

Collaboration diagram for menu. Profiler:



# **Static Public Member Functions**

• static void Profiler (UserData NewUser)

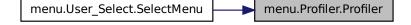
### 6.47.1 Constructor & Destructor Documentation

### 6.47.1.1 Profiler()

Here is the call graph for this function:



Here is the caller graph for this function:

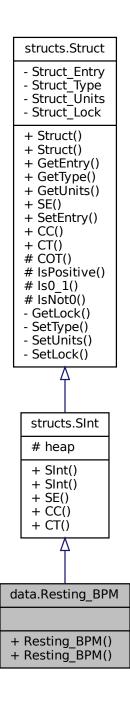


The documentation for this class was generated from the following file:

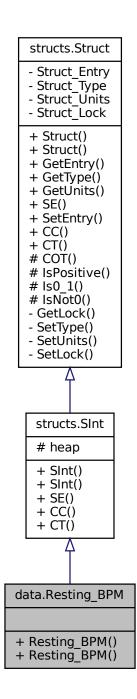
• /home/jamie/java/forms\_project/src/lib/menu/Profiler.java

# 6.48 data.Resting\_BPM Class Reference

Inheritance diagram for data.Resting\_BPM:



Collaboration diagram for data.Resting\_BPM:



# **Public Member Functions**

- Resting\_BPM ()
- Resting\_BPM (int o)

# **Additional Inherited Members**

# 6.48.1 Constructor & Destructor Documentation

# 6.48.1.1 Resting\_BPM() [1/2]

```
data.Resting_BPM.Resting_BPM ( )
```

# 6.48.1.2 Resting\_BPM() [2/2]

```
data.Resting_BPM.Resting_BPM ( \quad \text{int } o \ )
```

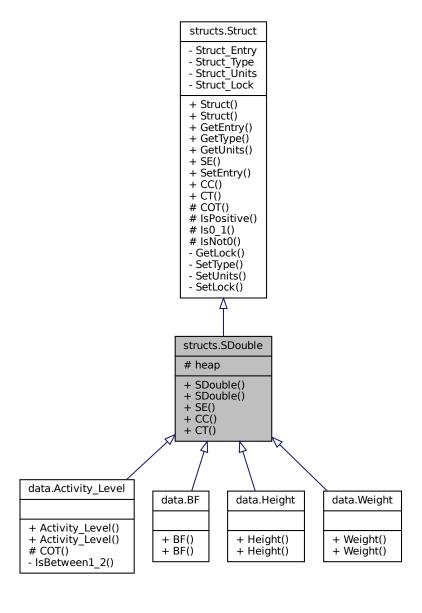
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/data/Resting\_BPM.java

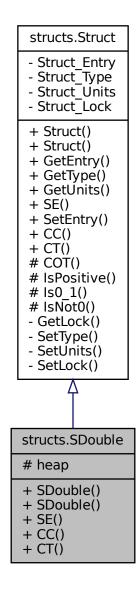
# 6.49 structs.SDouble Class Reference

The class that holds Double-typed data.

Inheritance diagram for structs.SDouble:



Collaboration diagram for structs. SDouble:



# **Public Member Functions**

• SDouble (String Type, String Units)

Initializes SDouble with default value null.

• SDouble (double o, String Type, String Units)

Initializes SDouble with a defined value.

- boolean SE (Object o)
- boolean CC (Object o)

Returns whether the object is positive or not.

• boolean CT (Object o)

Returns whether an object is a double or not.

# **Protected Attributes**

double heap

Temporary storage for containing Double values.

# **Additional Inherited Members**

# 6.49.1 Detailed Description

The class that holds Double-typed data.

### 6.49.2 Constructor & Destructor Documentation

### 6.49.2.1 SDouble() [1/2]

Initializes SDouble with default value null.

#### **Parameters**

Туре	The type of double.
Units	The units of the type.

# 6.49.2.2 SDouble() [2/2]

```
structs.SDouble.SDouble (
double o,
String Type,
String Units)
```

Initializes SDouble with a defined value.

### **Parameters**

0	The defined value for the class.
Туре	The type of double.
Units	The units of the type.

# 6.49.3 Member Function Documentation

# 6.49.3.1 CC()

```
boolean structs.SDouble.CC ( \label{eq:cc} \mbox{Object } o \mbox{ )}
```

Returns whether the object is positive or not.

See also

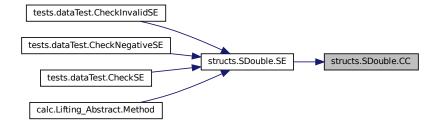
#Struct.CC

Reimplemented from structs.Struct.

Here is the call graph for this function:



Here is the caller graph for this function:



### 6.49.3.2 CT()

Returns whether an object is a double or not.

Note

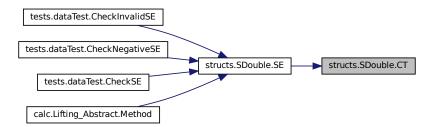
May losslessly take any int values.

See also

#Struct.CT

Reimplemented from structs.Struct.

Here is the caller graph for this function:



### 6.49.3.3 SE()

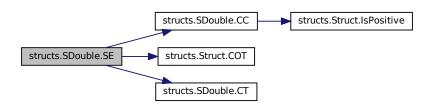
```
boolean structs.SDouble.SE ( {\tt Object\ \it o\ })
```

See also

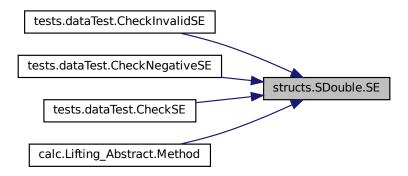
#Struct.SE

Reimplemented from structs.Struct.

Here is the call graph for this function:



Here is the caller graph for this function:



### 6.49.4 Member Data Documentation

### 6.49.4.1 heap

double structs.SDouble.heap [protected]

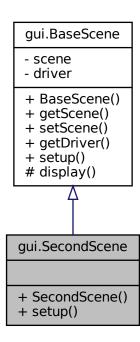
Temporary storage for containing Double values.

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

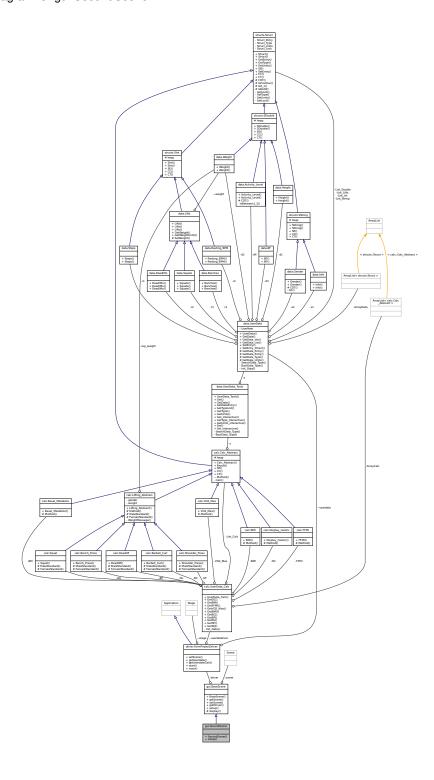
• /home/jamie/java/forms\_project/src/lib/structs/SDouble.java

# 6.50 gui.SecondScene Class Reference

Inheritance diagram for gui. Second Scene:



Collaboration diagram for gui.SecondScene:



# **Public Member Functions**

- SecondScene (FormProjectDriver driver)
- void setup ()

Sets up the scene (the actual drawing)

# **Additional Inherited Members**

# 6.50.1 Constructor & Destructor Documentation

### 6.50.1.1 SecondScene()

### 6.50.2 Member Function Documentation

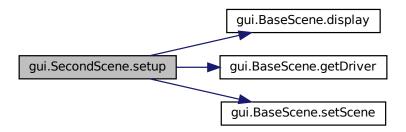
# 6.50.2.1 setup()

```
void gui.SecondScene.setup ( )
```

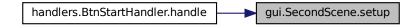
Sets up the scene (the actual drawing)

Reimplemented from gui.BaseScene.

Here is the call graph for this function:



Here is the caller graph for this function:

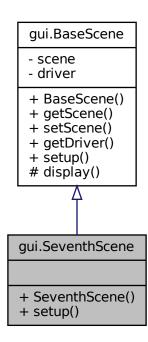


The documentation for this class was generated from the following file:

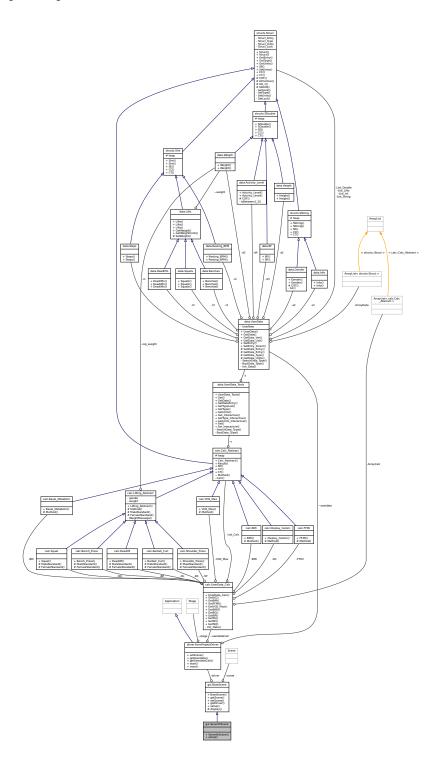
• /home/jamie/java/forms\_project/src/lib/gui/SecondScene.java

# 6.51 gui.SeventhScene Class Reference

Inheritance diagram for gui. Seventh Scene:



Collaboration diagram for gui.SeventhScene:



# **Public Member Functions**

- SeventhScene (FormProjectDriver driver)
- void setup ()

Sets up the scene (the actual drawing)

## **Additional Inherited Members**

#### 6.51.1 Constructor & Destructor Documentation

## 6.51.1.1 SeventhScene()

#### 6.51.2 Member Function Documentation

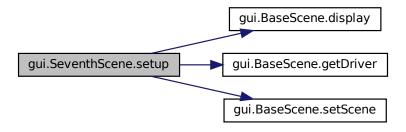
#### 6.51.2.1 setup()

```
void gui.SeventhScene.setup ( )
```

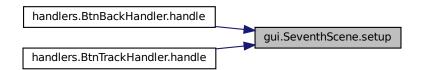
Sets up the scene (the actual drawing)

Reimplemented from gui.BaseScene.

Here is the call graph for this function:



Here is the caller graph for this function:

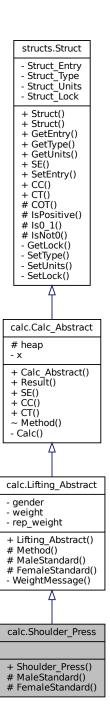


The documentation for this class was generated from the following file:

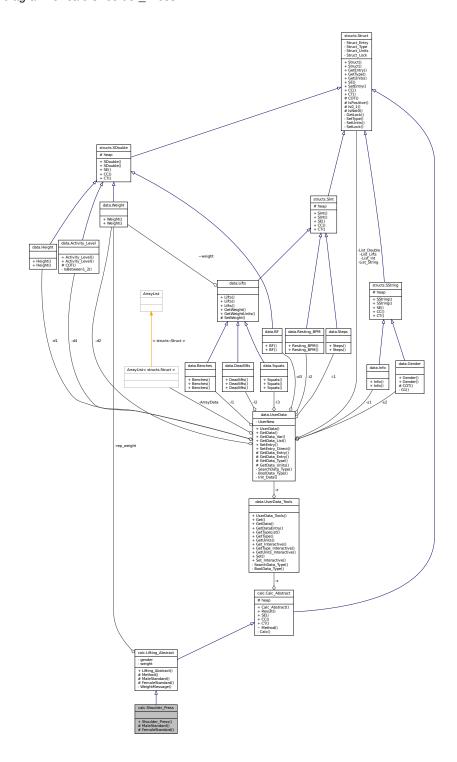
/home/jamie/java/forms\_project/src/lib/gui/gui/SeventhScene.java

# 6.52 calc.Shoulder\_Press Class Reference

Inheritance diagram for calc.Shoulder\_Press:



Collaboration diagram for calc.Shoulder\_Press:



# **Public Member Functions**

• Shoulder\_Press (UserData z)

# **Protected Member Functions**

- String MaleStandard (int weight, int rweight)
- String FemaleStandard (int weight, int rweight)

## **Additional Inherited Members**

## 6.52.1 Constructor & Destructor Documentation

## 6.52.1.1 Shoulder\_Press()

## 6.52.2 Member Function Documentation

#### 6.52.2.1 FemaleStandard()

Reimplemented from calc.Lifting\_Abstract.

# 6.52.2.2 MaleStandard()

Reimplemented from calc.Lifting\_Abstract.

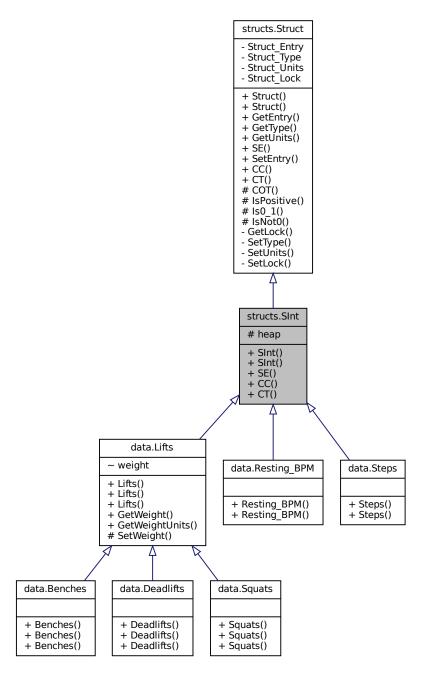
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/calc/Shoulder\_Press.java

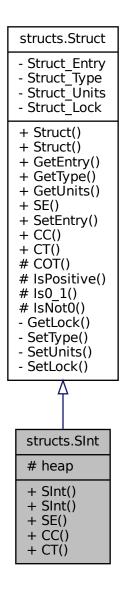
# 6.53 structs.SInt Class Reference

The class that holds Integer-typed data.

Inheritance diagram for structs.SInt:



Collaboration diagram for structs.SInt:



## **Public Member Functions**

• SInt (String Type, String Units)

Initializes SInt with default value null.

• SInt (int o, String Type, String Units)

Initializes SInt with a defined value.

- boolean SE (Object o)
- boolean CC (Object o)

Returns whether the object is positive or not.

• boolean CT (Object o)

Returns whether an object is an integer or not.

# **Protected Attributes**

• int heap

Temporary storage for containing Integer values.

## **Additional Inherited Members**

# 6.53.1 Detailed Description

The class that holds Integer-typed data.

#### 6.53.2 Constructor & Destructor Documentation

#### 6.53.2.1 SInt() [1/2]

Initializes SInt with default value null.

#### **Parameters**

Туре	The type of int.
Units	The units of the type.

## 6.53.2.2 SInt() [2/2]

Initializes SInt with a defined value.

#### **Parameters**

0	The defined value for the class.
Туре	The type of int.
Units	The units of the type.

## 6.53.3 Member Function Documentation

#### 6.53.3.1 CC()

Returns whether the object is positive or not.

See also

#Struct.CC

Reimplemented from structs.Struct.

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.53.3.2 CT()

Returns whether an object is an integer or not.

#### **Parameters**

o The object to be tested if it is an int.

#### See also

#Struct.CT

Reimplemented from structs.Struct.

Here is the caller graph for this function:



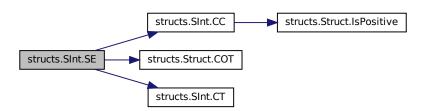
#### 6.53.3.3 SE()

#### See also

#Struct.SE

Reimplemented from structs.Struct.

Here is the call graph for this function:



## 6.53.4 Member Data Documentation

#### 6.53.4.1 heap

```
int structs.SInt.heap [protected]
```

Temporary storage for containing Integer values.

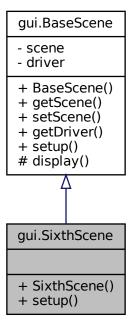
Assumes that anything that is a subclass of the numbers can be casted here.

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

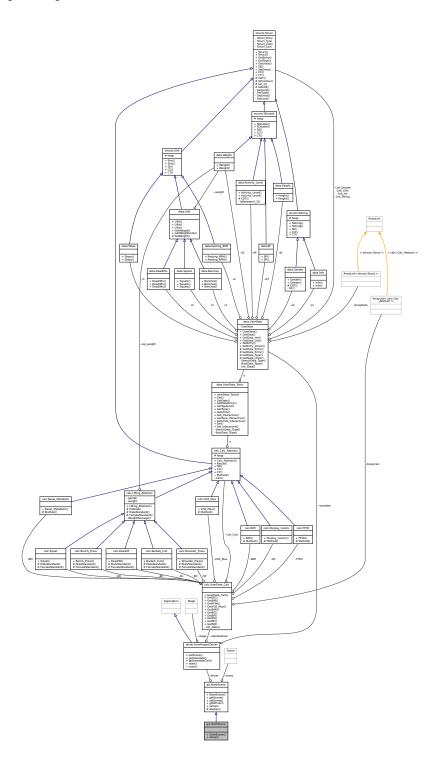
• /home/jamie/java/forms\_project/src/lib/structs/SInt.java

# 6.54 gui.SixthScene Class Reference

Inheritance diagram for gui.SixthScene:



Collaboration diagram for gui.SixthScene:



# **Public Member Functions**

- SixthScene (FormProjectDriver driver)
- void setup ()

Sets up the scene (the actual drawing)

## **Additional Inherited Members**

#### 6.54.1 Constructor & Destructor Documentation

## 6.54.1.1 SixthScene()

## 6.54.2 Member Function Documentation

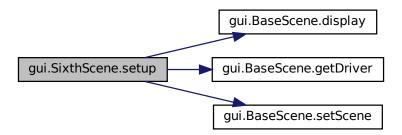
## 6.54.2.1 setup()

```
void gui.SixthScene.setup ( )
```

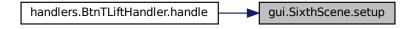
Sets up the scene (the actual drawing)

Reimplemented from gui.BaseScene.

Here is the call graph for this function:



Here is the caller graph for this function:

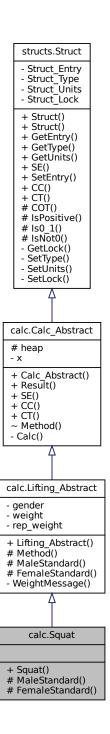


The documentation for this class was generated from the following file:

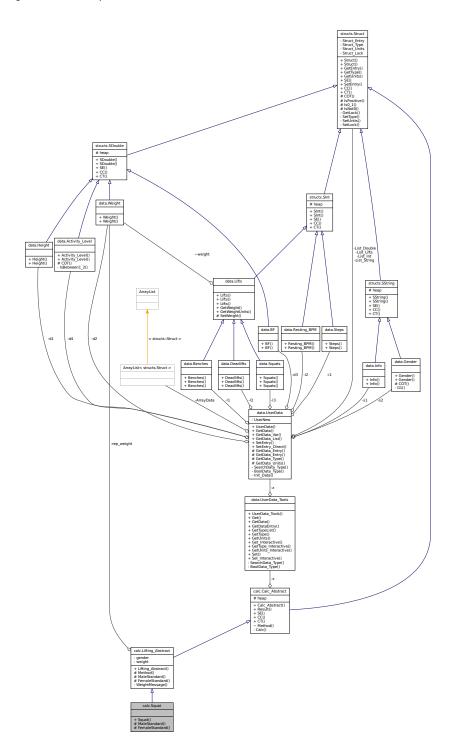
• /home/jamie/java/forms\_project/src/lib/gui/gui/SixthScene.java

# 6.55 calc. Squat Class Reference

Inheritance diagram for calc. Squat:



Collaboration diagram for calc. Squat:



# **Public Member Functions**

• Squat (UserData z)

# **Protected Member Functions**

- String MaleStandard (int weight, int rweight)
- String FemaleStandard (int weight, int rweight)

## **Additional Inherited Members**

## 6.55.1 Constructor & Destructor Documentation

## 6.55.1.1 Squat()

## 6.55.2 Member Function Documentation

#### 6.55.2.1 FemaleStandard()

Reimplemented from calc.Lifting\_Abstract.

# 6.55.2.2 MaleStandard()

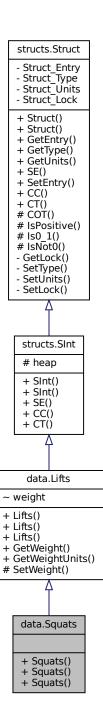
Reimplemented from calc.Lifting\_Abstract.

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

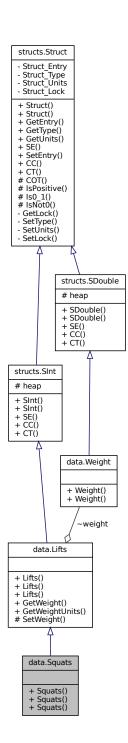
• /home/jamie/java/forms\_project/src/lib/calc/Squat.java

# 6.56 data. Squats Class Reference

Inheritance diagram for data. Squats:



Collaboration diagram for data. Squats:



# **Public Member Functions**

- Squats ()
- Squats (int o)
- Squats (int o, double p)

## **Additional Inherited Members**

## 6.56.1 Constructor & Destructor Documentation

# 6.56.1.1 Squats() [1/3]

```
data.Squats.Squats ( )
```

## 6.56.1.2 Squats() [2/3]

```
data.Squats.Squats ( int \ o )
```

## 6.56.1.3 Squats() [3/3]

```
data.Squats.Squats ( \label{eq:condition} \text{int } o, \\ \text{double } p \ )
```

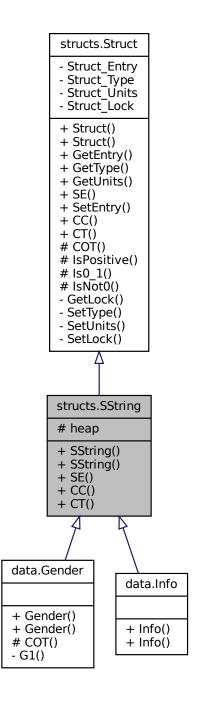
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/data/Squats.java

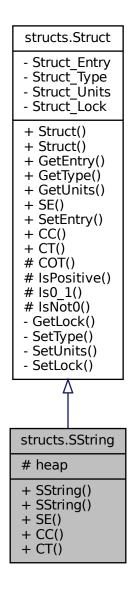
# 6.57 structs.SString Class Reference

The class that holds String-typed data.

Inheritance diagram for structs. SString:



Collaboration diagram for structs. SString:



#### **Public Member Functions**

• SString (String Type, String Units)

Initializes SString with default value null.

• SString (String o, String Type, String Units)

Initializes SString with a defined value.

- boolean SE (Object o)
- boolean CC (Object o)
- boolean CT (Object o)

Returns whether an object is a String or not.

## **Protected Attributes**

• String heap

Temporary storage for containing String values.

## **Additional Inherited Members**

# 6.57.1 Detailed Description

The class that holds String-typed data.

## 6.57.2 Constructor & Destructor Documentation

#### 6.57.2.1 SString() [1/2]

Initializes SString with default value null.

#### **Parameters**

Туре	The type of String.
Units	Not typically used for the class.

#### 6.57.2.2 SString() [2/2]

```
structs.SString.SString (
String o,
String Type,
String Units)
```

Initializes SString with a defined value.

#### **Parameters**

0	The defined value for the class.
Туре	The type of String.
Units	Not typically used for the class.

## 6.57.3 Member Function Documentation

## 6.57.3.1 CC()

See also

#Struct.CC

Reimplemented from structs.Struct.

Here is the caller graph for this function:



## 6.57.3.2 CT()

```
boolean structs.SString.CT ( \label{eq:ctool} \text{Object } o \text{ )}
```

Returns whether an object is a String or not.

#### **Parameters**

o The object to be tested if it is a String.

See also

#Struct.CT

Reimplemented from structs.Struct.

Here is the caller graph for this function:



## 6.57.3.3 SE()

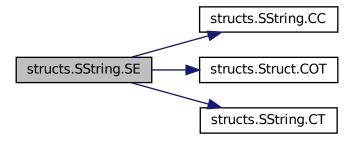
```
boolean structs.SString.SE ( \label{eq:constraint} \text{Object } o \text{ )}
```

See also

#Struct.SE

Reimplemented from structs.Struct.

Here is the call graph for this function:



Here is the caller graph for this function:

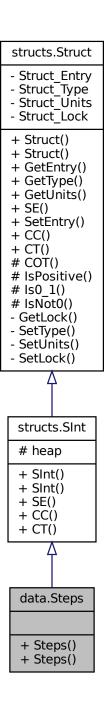


6.57.4	Member Data Documentation
6.57.4.1	heap
String s	structs.SString.heap [protected]
-	
Tempora	ry storage for containing String values.
Assumes	that anything that is a subclass of String can be casted here.
The deep	amontation for this close was generated from the following file:
THE GOCC	mentation for this class was generated from the following file:

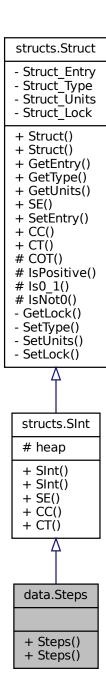
• /home/jamie/java/forms\_project/src/lib/structs/SString.java

# 6.58 data. Steps Class Reference

Inheritance diagram for data. Steps:



Collaboration diagram for data. Steps:



# **Public Member Functions**

- Steps ()
- Steps (int o)

## **Additional Inherited Members**

## 6.58.1 Constructor & Destructor Documentation

# 6.58.1.1 Steps() [1/2]

```
data.Steps.Steps ( )
```

# 6.58.1.2 Steps() [2/2]

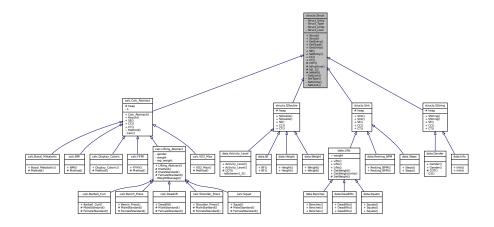
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/data/Steps.java

# 6.59 structs.Struct Class Reference

Provides the foundational DataType and primitive methods for all various inputs.

Inheritance diagram for structs. Struct:



Collaboration diagram for structs. Struct:

#### structs.Struct

- Struct\_Entry
- Struct\_Type
- Struct\_Units
- Struct\_Lock
- + Struct()
- + Struct()
- + GetEntry()
- + GetType()
- + GetUnits()
- + SE()
- + SetEntry()
- + CC()
- + CT()
- # COT()
- # IsPositive()
- # Is0 1()
- # IsNot0()
- GetLock() SetType()
- SetUnits()
- SetLock()

#### **Public Member Functions**

• Struct (String Type, String Units)

Constructor that provides only a null Object.

• Struct (Object Value, String Type, String Units)

Constructor that intializes Struct with a value.

• Object GetEntry ()

Gets the value of Struct\_Entry.

• String GetType ()

Gets the value of Struct\_Type.

• String GetUnits ()

Gets the value of Struct\_Units.

• abstract boolean SE (Object o)

Abstract Method to check whether a value to be entered is valid.

• void SetEntry (Object o)

Sets the value of Struct\_Entry.

abstract boolean CC (Object o)

Provides a method to return a boolean whether an object can be set via SetEntry under various conditions.

• abstract boolean CT (Object o)

Provides a method to return a boolean whether the object passes the basic type test.

#### **Protected Member Functions**

```
• boolean COT (Object o)
```

Provides a method to return whether the object's type is valid to be inputted into.

• boolean IsPositive (double o)

Checks if object is Positive or is 0.

• boolean IsO\_1 (double o)

Checks if object is between 0 and 1 inclusive.

boolean IsNot0 (double o)

Checks if object is not 0.

#### **Private Member Functions**

```
• boolean GetLock ()
```

Gets the value of Struct\_Lock.

• void SetType (String Type)

Sets the type of Struct\_Type.

void SetUnits (String Units)

Sets the units of Struct\_Units.

• void SetLock ()

Sets Struct\_Lock to true upon the constructor's initialization.

#### **Private Attributes**

```
• Object Struct_Entry = null
```

Stores various forms of data.

• String Struct\_Type = ""

Stores the type of data of Struct\_Entry.

• String Struct Units = ""

Stores the units of the data of Struct\_Entry.

• boolean Struct\_Lock = false

Locks Struct\_Type and Struct\_Units from modification after initialization of Struct.

## 6.59.1 Detailed Description

Provides the foundational DataType and primitive methods for all various inputs.

Includes get, set, and check methods for its objects.

#### 6.59.2 Constructor & Destructor Documentation

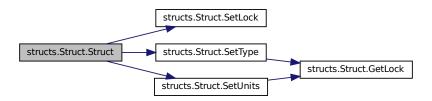
#### 6.59.2.1 Struct() [1/2]

Constructor that provides only a null Object.

#### **Parameters**

Туре	The type of object.
Value	How the object is measured.

Here is the call graph for this function:



#### 6.59.2.2 Struct() [2/2]

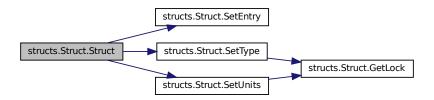
```
structs.Struct (
Object Value,
String Type,
String Units)
```

Constructor that intializes Struct with a value.

## **Parameters**

Value	The value of the object.
Туре	The type of object.
Units	How the object is measured.

Here is the call graph for this function:



#### 6.59.3 Member Function Documentation

#### 6.59.3.1 CC()

Provides a method to return a boolean whether an object can be set via SetEntry under various conditions.

#### See also

CC

CT

COT

Reimplemented in calc.Calc\_Abstract, structs.SInt, structs.SString, and structs.SDouble.

#### 6.59.3.2 COT()

```
boolean structs.Struct.COT ( \label{eq:construct} \mbox{Object o ) [protected]}
```

Provides a method to return whether the object's type is valid to be inputted into.

E.g. String cannot go into Double, and vice versa, so it returns false.

#### Note

Lossy type casting may be encountered from Double to Integer.

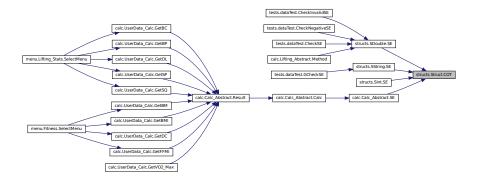
Lossless type casting may be encountered from Integer to Double.

#### **Parameters**

o Object to be inspected on other conditions.

Reimplemented in data.Gender, and data.Activity\_Level.

Here is the caller graph for this function:



#### 6.59.3.3 CT()

Provides a method to return a boolean whether the object passes the basic type test.

#### **Parameters**

o Object to be inspected on.

Reimplemented in calc.Calc\_Abstract, structs.SInt, structs.SString, and structs.SDouble.

# 6.59.3.4 GetEntry()

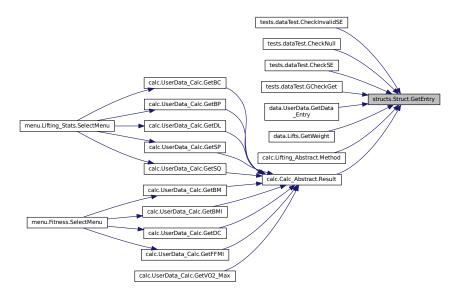
```
Object structs.Struct.GetEntry ( )
```

Gets the value of Struct\_Entry.

Returns

Struct\_Entry

Here is the caller graph for this function:



# 6.59.3.5 GetLock()

boolean structs.Struct.GetLock ( ) [private]

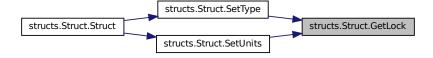
Gets the value of Struct Lock.

Used for confirming that there is no modification to the Struct\_Type and Struct\_Units once Struct has been initialized.

Returns

Struct\_Lock

Here is the caller graph for this function:



## 6.59.3.6 GetType()

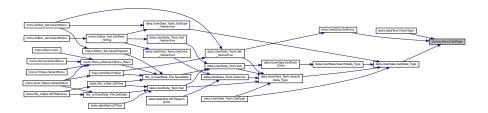
```
String structs.Struct.GetType ( )
```

Gets the value of Struct\_Type.

Returns

Struct\_Type

Here is the caller graph for this function:



## 6.59.3.7 GetUnits()

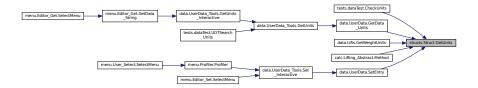
```
String structs.Struct.GetUnits ( )
```

Gets the value of Struct\_Units.

Returns

Struct\_Units

Here is the caller graph for this function:



## 6.59.3.8 Is0\_1()

```
boolean structs.Struct.Is0_1 ( \label{eq:condition} \mbox{double } o \; ) \; \; [\mbox{protected}]
```

Checks if object is between 0 and 1 inclusive.

This assumes that the object is a double.

#### **Parameters**

o Object to check.

#### 6.59.3.9 IsNot0()

```
boolean structs.Struct.IsNot0 ( \label{eq:condition} \mbox{double $o$ ) [protected]}
```

Checks if object is not 0.

Typically used in conjunction with IsPositive and/or IsO\_1.

#### **Parameters**

o Object to check.

# 6.59.3.10 IsPositive()

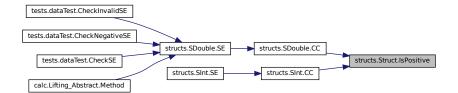
```
boolean structs.Struct.IsPositive ( \mbox{double } o \mbox{ ) } \mbox{ [protected]}
```

Checks if object is Positive or is 0.

This assumes that the object is a double.

#### **Parameters**

o Object to check.



#### 6.59.3.11 SE()

```
abstract boolean structs.Struct.SE ( {\tt Object\ o\ )\ [abstract]}
```

Abstract Method to check whether a value to be entered is valid.

Calls CC, COT, and CT methods to check if the object is valid for entry.

#### **Parameters**

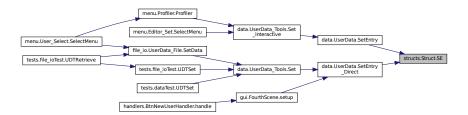
o Object to be inputted.

#### See also

CC, COT, CT

Reimplemented in calc.Calc\_Abstract, structs.SInt, structs.SString, and structs.SDouble.

Here is the caller graph for this function:



# 6.59.3.12 SetEntry()

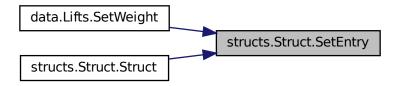
```
void structs.Struct.SetEntry ( \label{eq:condition} \texttt{Object } o \ )
```

Sets the value of Struct\_Entry.

#### **Parameters**

o Object to be inputted.

Here is the caller graph for this function:



# 6.59.3.13 SetLock()

```
void structs.Struct.SetLock ( ) [private]
```

Sets Struct\_Lock to true upon the constructor's initialization.

Here is the caller graph for this function:



#### 6.59.3.14 SetType()

Sets the type of Struct\_Type.

Function does not change Struct\_Type after Struct has been initialized. This is made possible by calling GetLock.

#### **Parameters**

Type The value of Struct\_Type.

Here is the call graph for this function:



Here is the caller graph for this function:

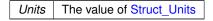


#### 6.59.3.15 SetUnits()

Sets the units of Struct\_Units.

Function does not change Struct\_Type after Struct has been initialized. This is made possible by calling GetLock.

#### **Parameters**





Here is the caller graph for this function:



#### 6.59.4 Member Data Documentation

#### 6.59.4.1 Struct\_Entry

```
Object structs.Struct_Entry = null [private]
```

Stores various forms of data.

#### 6.59.4.2 Struct\_Lock

```
boolean structs.Struct_Lock = false [private]
```

Locks Struct\_Type and Struct\_Units from modification after initialization of Struct.

#### 6.59.4.3 Struct\_Type

```
String structs.Struct_Type = "" [private]
```

Stores the type of data of Struct\_Entry.

E.g. Weight, Height, etc.

#### 6.59.4.4 Struct Units

```
String structs.Struct_Units = "" [private]
```

Stores the units of the data of Struct\_Entry.

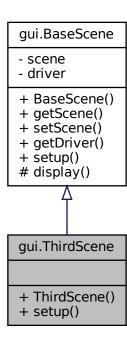
E.g. If Struct\_Type is Weight, then Struct\_Units is lbs.

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

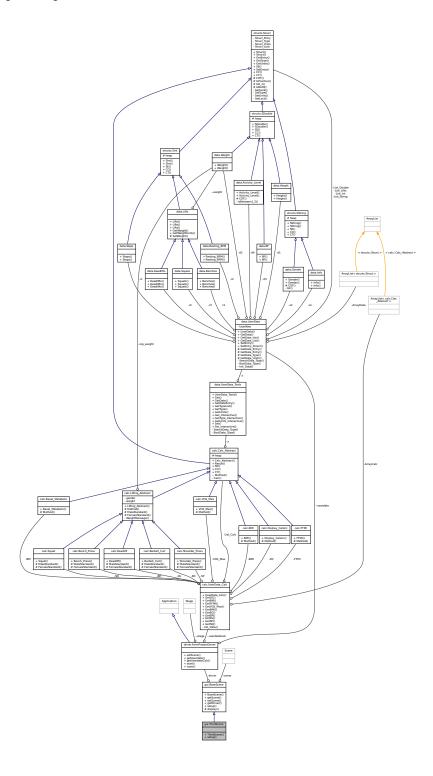
/home/jamie/java/forms\_project/src/lib/structs/Struct.java

# 6.60 gui.ThirdScene Class Reference

Inheritance diagram for gui. Third Scene:



Collaboration diagram for gui. Third Scene:



# **Public Member Functions**

- ThirdScene (FormProjectDriver driver)
- void setup ()

Sets up the scene (the actual drawing)

# **Additional Inherited Members**

#### 6.60.1 Constructor & Destructor Documentation

#### 6.60.1.1 ThirdScene()

#### 6.60.2 Member Function Documentation

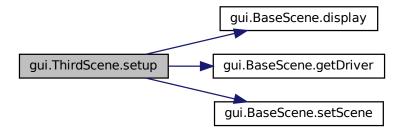
# 6.60.2.1 setup()

```
void gui.ThirdScene.setup ( )
```

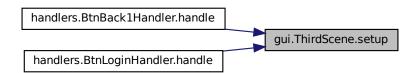
Sets up the scene (the actual drawing)

Reimplemented from gui.BaseScene.

Here is the call graph for this function:



Here is the caller graph for this function:



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

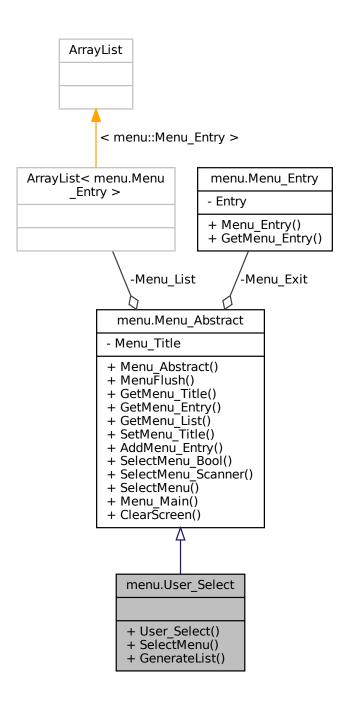
• /home/jamie/java/forms\_project/src/lib/gui/gui/ThirdScene.java

# 6.61 menu.User\_Select Class Reference

Inheritance diagram for menu.User\_Select:

# menu.Menu\_Abstract - Menu\_Title - Menu\_List - Menu\_Exit + Menu\_Abstract() + MenuFlush() + GetMenu\_Title() + GetMenu\_List() + SetMenu\_Title() + AddMenu\_Entry() + SelectMenu\_Bool() + SelectMenu\_Scanner() + SelectMenu() + Menu\_Main() + ClearScreen() menu.User\_Select + User\_Select() + SelectMenu() + GenerateList()

Collaboration diagram for menu.User\_Select:



# **Public Member Functions**

- User\_Select ()
- void SelectMenu (int choice, UserData z)

Abstract class that forces the coder to generate the current menu entries manually.

• void GenerateList ()

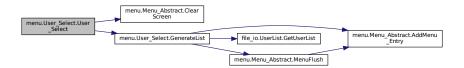
# **Additional Inherited Members**

# 6.61.1 Constructor & Destructor Documentation

# 6.61.1.1 User\_Select()

```
menu.User_Select.User_Select ( )
```

Here is the call graph for this function:

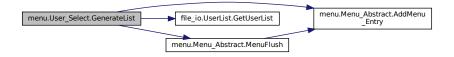


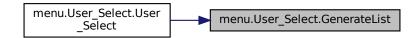
#### 6.61.2 Member Function Documentation

# 6.61.2.1 GenerateList()

```
void menu.User_Select.GenerateList ( )
```

Here is the call graph for this function:





# 6.61.2.2 SelectMenu()

```
void menu.User_Select.SelectMenu ( int\ choice, UserData\ z\ )
```

Abstract class that forces the coder to generate the current menu entries manually.

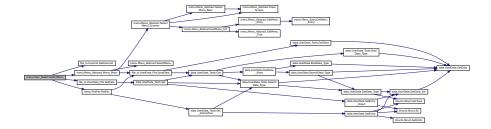
May be obseleted for the GUI due to SelectMenu\_Scanner being bypassed.

#### **Parameters**

choice	Choice that will be sent to the SelectMenu method.
Z	#UserData that should be passed to other classes.

Reimplemented from menu.Menu\_Abstract.

Here is the call graph for this function:

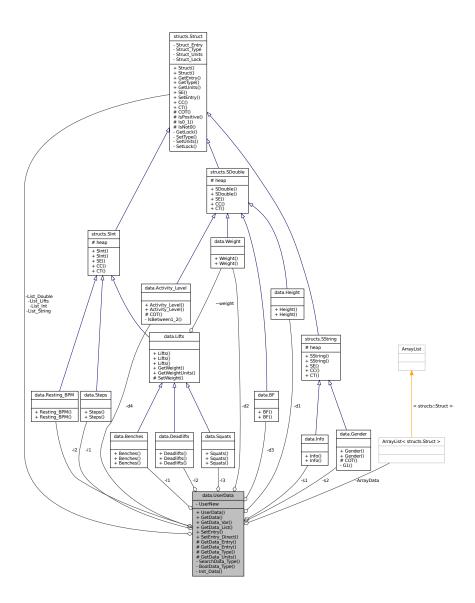


The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/menu/User\_Select.java

# 6.62 data.UserData Class Reference

Collaboration diagram for data.UserData:



# **Public Member Functions**

- UserData ()
- ArrayList< Struct > GetData ()
- Struct GetData\_Var (int choice)
- ArrayList < String > GetData\_List ()
- boolean SetEntry (int choice)
- boolean SetEntry\_Direct (int choice, Object value)

# **Protected Member Functions**

- Object GetData\_Entry (String target)
- Object GetData\_Entry (int choice)
- String GetData\_Type (int choice)
- String GetData\_Units (int choice)

#### **Private Member Functions**

- int SearchData\_Type (String target)
- boolean BoolData\_Type (int i)
- void Init\_Data ()

#### **Private Attributes**

- Steps i1 = new Steps()
- Resting\_BPM i2 = new Resting\_BPM()
- Struct[] List\_Int = {i1, i2}
- Height d1 = new Height()
- Weight d2 = new Weight()
- BF d3 = new BF()
- Activity\_Level d4 = new Activity\_Level()
- Struct[] List\_Double = {d1, d2, d3, d4}
- Benches I1 = new Benches()
- Deadlifts I2 = new Deadlifts()
- Squats I3 = new Squats()
- Struct[] List\_Lifts = {I1, I2, I3}
- Info s1 = new Info()
- Gender s2 = new Gender()
- Struct[] List\_String = {s1, s2}
- boolean UserNew = false
- ArrayList< Struct > ArrayData = new ArrayList<Struct>()

# 6.62.1 Constructor & Destructor Documentation

#### 6.62.1.1 UserData()

```
data.UserData.UserData ( )
```

Here is the call graph for this function:



#### 6.62.2 Member Function Documentation

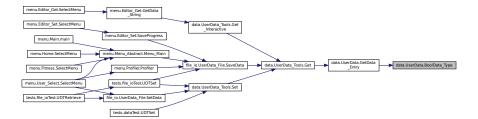
# 6.62.2.1 BoolData\_Type()

```
boolean data.UserData.BoolData_Type ( \label{eq:condition} \text{int } i \text{ ) } \text{ [private]}
```

Here is the call graph for this function:

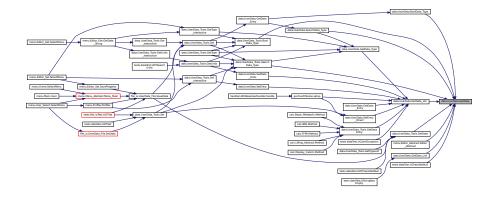


Here is the caller graph for this function:



# 6.62.2.2 GetData()

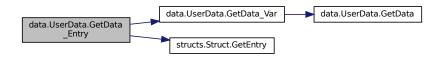
```
ArrayList<Struct> data.UserData.GetData ( )
```



# 6.62.2.3 GetData\_Entry() [1/2]

```
Object data.UserData.GetData_Entry ( int choice ) [protected]
```

Here is the call graph for this function:

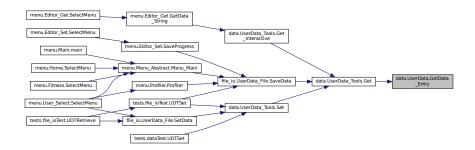


# 6.62.2.4 GetData\_Entry() [2/2]

```
Object data.UserData.GetData_Entry ( String target ) [protected]
```

Here is the call graph for this function:

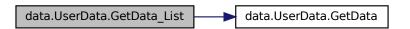




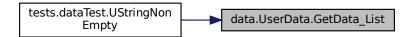
#### 6.62.2.5 **GetData\_List()**

```
ArrayList<String> data.UserData.GetData_List ( )
```

Here is the call graph for this function:

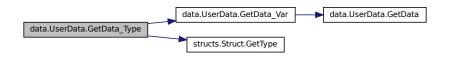


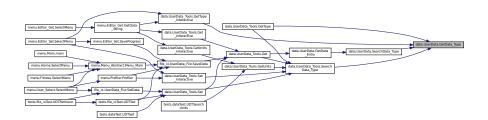
Here is the caller graph for this function:



# 6.62.2.6 GetData\_Type()

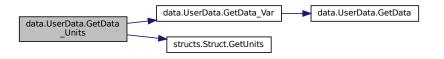
Here is the call graph for this function:





# 6.62.2.7 GetData\_Units()

Here is the call graph for this function:

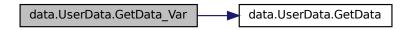


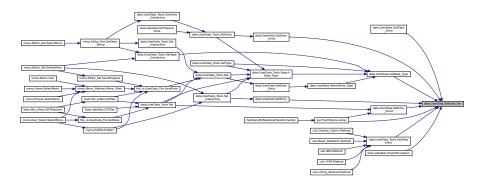
Here is the caller graph for this function:



# 6.62.2.8 GetData\_Var()

Here is the call graph for this function:





# 6.62.2.9 Init\_Data()

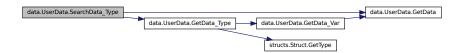
```
void data.UserData.Init_Data ( ) [private]
```

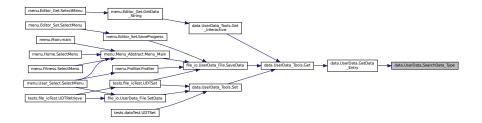
Here is the caller graph for this function:



# 6.62.2.10 SearchData\_Type()

Here is the call graph for this function:

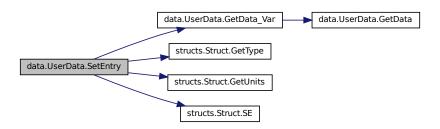




# 6.62.2.11 SetEntry()

```
boolean data.UserData.SetEntry ( int \ choice \ )
```

Here is the call graph for this function:



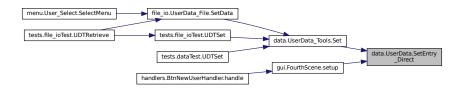
Here is the caller graph for this function:



#### 6.62.2.12 SetEntry\_Direct()

Here is the call graph for this function:





# 6.62.3 Member Data Documentation

# 6.62.3.1 ArrayData

```
ArrayList<Struct> data.UserData.ArrayData = new ArrayList<Struct>() [private]
```

#### 6.62.3.2 d1

```
Height data.UserData.d1 = new Height() [private]
```

# 6.62.3.3 d2

```
Weight data.UserData.d2 = new Weight() [private]
```

# 6.62.3.4 d3

```
BF data.UserData.d3 = new BF() [private]
```

#### 6.62.3.5 d4

```
Activity_Level data.UserData.d4 = new Activity_Level() [private]
```

#### 6.62.3.6 i1

```
Steps data.UserData.i1 = new Steps() [private]
```

# 6.62.3.7 i2

```
Resting_BPM data.UserData.i2 = new Resting_BPM() [private]
```

# 6.62.3.8 I1

```
Benches data.UserData.l1 = new Benches() [private]
```

#### 6.62.3.9 I2

```
Deadlifts data.UserData.12 = new Deadlifts() [private]
```

#### 6.62.3.10 I3

```
Squats data.UserData.13 = new Squats() [private]
```

#### 6.62.3.11 List\_Double

```
Struct [] data.UserData.List_Double = {d1, d2, d3, d4} [private]
```

# 6.62.3.12 List\_Int

```
Struct [] data.UserData.List_Int = {i1, i2} [private]
```

# 6.62.3.13 List\_Lifts

```
Struct [] data.UserData.List_Lifts = {11, 12, 13} [private]
```

# 6.62.3.14 List\_String

```
Struct [] data.UserData.List_String = {s1, s2} [private]
```

#### 6.62.3.15 s1

```
Info data.UserData.s1 = new Info() [private]
```

#### 6.62.3.16 s2

Gender data.UserData.s2 = new Gender() [private]

#### 6.62.3.17 UserNew

boolean data.UserData.UserNew = false [private]

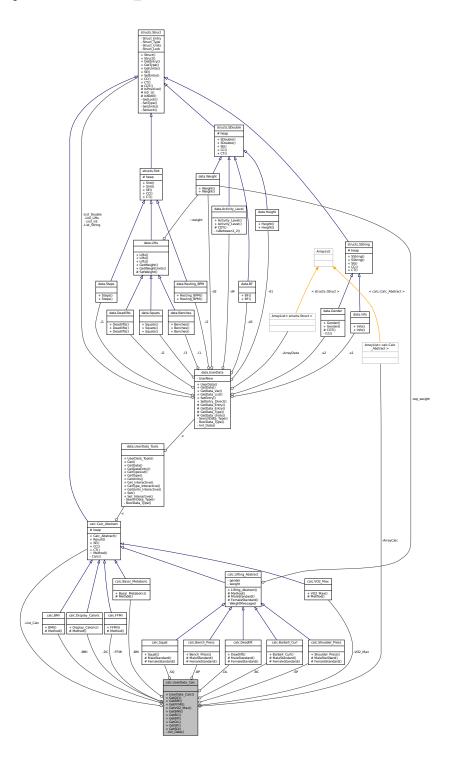
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/data/UserData.java

# 6.63 calc.UserData\_Calc Class Reference

Class that stores all results of the calculations.

Collaboration diagram for calc.UserData\_Calc:



# **Public Member Functions**

- UserData\_Calc (UserData z)
  - Constructs the results of the #UserData.
- Object GetDC ()
  - Returns Display\_Caloric values.
- Object GetBM ()

Returns Basal\_Metabolic values.

• Object GetFFMI ()

Returns FFMI values.

• Object GetVO2\_Max ()

Returns VO2\_Max values.

• Object GetBMI ()

Returns BMI values.

- Object GetBC ()
- Object GetBP ()
- Object GetDL ()
- · Object GetSP ()
- Object GetSQ ()

#### **Private Member Functions**

• void Init Data ()

Initializes the calculation values into ArrayCalc.

#### **Private Attributes**

· Display\_Caloric DC

Object for Display\_Caloric.

· Basal Metabolic BM

Object for Basal\_Metabolic.

FFMI FFMI

Object for FFMI.

VO2\_Max VO2\_Max

Object for VO2 Max.

BMI BMI

Object for BMI.

· Barbell Curl BC

Sets the array of calculations to be accessed.

- Bench\_Press BP
- Deadlift DL
- · Shoulder Press SP
- Squat SQ
- Calc\_Abstract[] List\_Calc
- ArrayList< Calc\_Abstract > ArrayCalc = new ArrayList<Calc\_Abstract>()

An ArrayList object for all the calculations.

# 6.63.1 Detailed Description

Class that stores all results of the calculations.

# 6.63.2 Constructor & Destructor Documentation

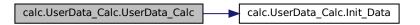
#### 6.63.2.1 UserData\_Calc()

Constructs the results of the #UserData.

#### **Parameters**

z User's data.

Here is the call graph for this function:



# 6.63.3 Member Function Documentation

# 6.63.3.1 GetBC()

```
Object calc.UserData_Calc.GetBC ( )
```

Here is the call graph for this function:





#### 6.63.3.2 GetBM()

```
Object calc.UserData_Calc.GetBM ( )
```

Returns Basal\_Metabolic values.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 6.63.3.3 GetBMI()

```
Object calc.UserData_Calc.GetBMI ( )
```

Returns **BMI** values.

Here is the call graph for this function:





#### 6.63.3.4 GetBP()

```
Object calc.UserData_Calc.GetBP ( )
```

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.63.3.5 GetDC()

```
Object calc.UserData_Calc.GetDC ( )
```

Returns Display\_Caloric values.

Here is the call graph for this function:





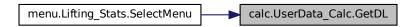
#### 6.63.3.6 GetDL()

```
Object calc.UserData_Calc.GetDL ( )
```

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.63.3.7 GetFFMI()

```
Object calc.UserData_Calc.GetFFMI ( )
```

Returns FFMI values.

Here is the call graph for this function:





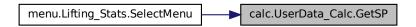
# 6.63.3.8 GetSP()

```
Object calc.UserData_Calc.GetSP ( )
```

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.63.3.9 GetSQ()

```
Object calc.UserData_Calc.GetSQ ( )
```

Here is the call graph for this function:





#### 6.63.3.10 GetVO2\_Max()

```
Object calc.UserData_Calc.GetVO2_Max ( )
```

Returns VO2 Max values.

Here is the call graph for this function:



# 6.63.3.11 Init\_Data()

```
void calc.UserData_Calc.Init_Data ( ) [private]
```

Initializes the calculation values into ArrayCalc.

Here is the caller graph for this function:



#### 6.63.4 Member Data Documentation

#### 6.63.4.1 ArrayCalc

ArrayList < Calc\_Abstract > calc.UserData\_Calc.ArrayCalc = new ArrayList < Calc\_Abstract > () [private]

An ArrayList object for all the calculations.

#### 6.63.4.2 BC

```
Barbell_Curl calc.UserData_Calc.BC [private]
```

Sets the array of calculations to be accessed.

# 6.63.4.3 BM

```
Basal_Metabolic calc.UserData_Calc.BM [private]
```

Object for Basal\_Metabolic.

# 6.63.4.4 BMI

```
BMI calc.UserData_Calc.BMI [private]
```

Object for BMI.

#### 6.63.4.5 BP

```
Bench_Press calc.UserData_Calc.BP [private]
```

#### 6.63.4.6 DC

```
Display_Caloric calc.UserData_Calc.DC [private]
```

Object for Display\_Caloric.

# 6.63.4.7 DL

```
Deadlift calc.UserData_Calc.DL [private]
```

# 6.63.4.8 FFMI

```
FFMI calc.UserData_Calc.FFMI [private]
```

Object for FFMI.

#### 6.63.4.9 List\_Calc

```
Calc_Abstract [] calc.UserData_Calc.List_Calc [private]
```

#### Initial value:

```
= {DC, BM, FFMI,
BMI, VO2_Max, BC, BP, DL, SP, SQ
```

#### 6.63.4.10 SP

```
Shoulder_Press calc.UserData_Calc.SP [private]
```

#### 6.63.4.11 SQ

```
Squat calc.UserData_Calc.SQ [private]
```

# 6.63.4.12 VO2\_Max

```
VO2_Max calc.UserData_Calc.VO2_Max [private]
```

Object for VO2\_Max.

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

• /home/jamie/java/forms\_project/src/lib/calc/UserData\_Calc.java

# 6.64 file\_io.UserData\_File Class Reference

Collaboration diagram for file\_io.UserData\_File:

# file\_io.UserData\_File - pathname

- path
- + SetData()
- + SaveData()

# **Static Public Member Functions**

- static boolean SetData (String ToAccess, UserData toTransfer)
- static boolean SaveData (UserData toTransfer)

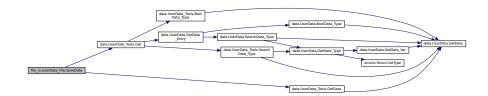
#### **Static Private Attributes**

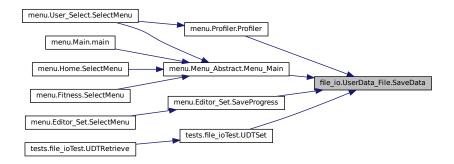
- static String pathname = "users"
- static File path = new File(pathname)

#### 6.64.1 Member Function Documentation

#### 6.64.1.1 SaveData()

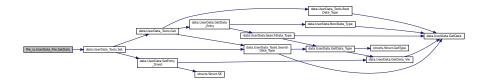
Here is the call graph for this function:



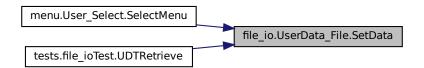


#### 6.64.1.2 SetData()

Here is the call graph for this function:



Here is the caller graph for this function:



# 6.64.2 Member Data Documentation

# 6.64.2.1 path

```
File file_io.UserData_File.path = new File(pathname) [static], [private]
```

# 6.64.2.2 pathname

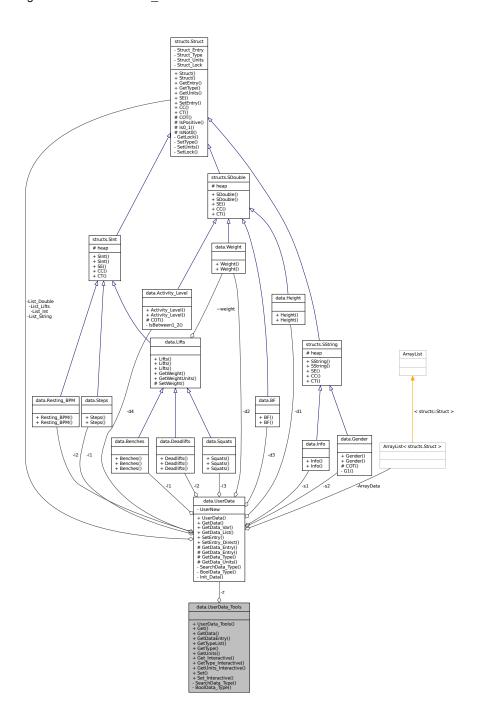
```
String file_io.UserData_File.pathname = "users" [static], [private]
```

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

• /home/jamie/java/forms\_project/src/lib/file\_io/UserData\_File.java

# 6.65 data.UserData\_Tools Class Reference

Collaboration diagram for data.UserData\_Tools:



# **Public Member Functions**

- UserData\_Tools (UserData z)
- Object Get (String target)
- ArrayList < Struct > GetData ()
- Object GetDataEntry (UserDataIndex index)

- ArrayList< String > GetTypeList ()
- String GetType (String target)
- String GetUnits (String target)
- Object Get\_Interactive (String target)
- String GetType\_Interactive (int i)
- String GetUnits\_Interactive (String target)
- boolean Set (String target, Object value)
- boolean Set\_Interactive (String target)

#### **Private Member Functions**

- int SearchData\_Type (String target)
- boolean BoolData\_Type (int i)

#### **Private Attributes**

• UserData z

#### 6.65.1 Constructor & Destructor Documentation

#### 6.65.1.1 UserData\_Tools()

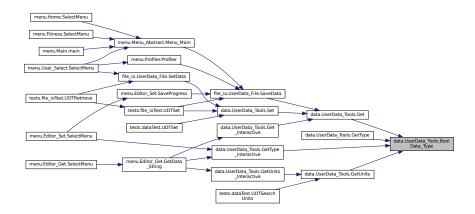
#### 6.65.2 Member Function Documentation

#### 6.65.2.1 BoolData\_Type()

Here is the call graph for this function:



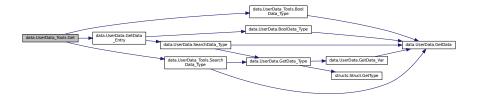
Here is the caller graph for this function:



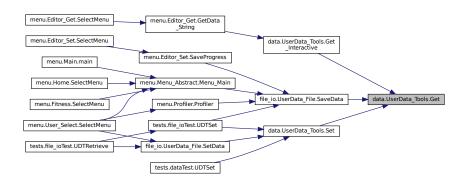
#### 6.65.2.2 Get()

```
Object data.UserData_Tools.Get (
String target)
```

Here is the call graph for this function:



Here is the caller graph for this function:



#### 6.65.2.3 Get\_Interactive()

Here is the call graph for this function:



Here is the caller graph for this function:



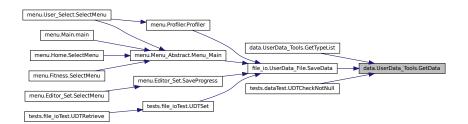
#### 6.65.2.4 GetData()

```
ArrayList<Struct> data.UserData_Tools.GetData ( )
```

Here is the call graph for this function:

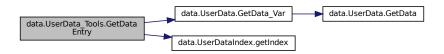


Here is the caller graph for this function:

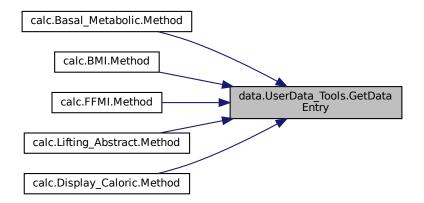


#### 6.65.2.5 GetDataEntry()

Here is the call graph for this function:



Here is the caller graph for this function:



#### 6.65.2.6 GetType()

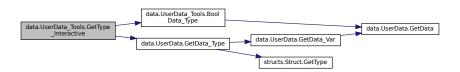
Here is the call graph for this function:



#### 6.65.2.7 GetType\_Interactive()

```
String data.UserData_Tools.GetType_Interactive ( \quad \text{int } i \text{ )}
```

Here is the call graph for this function:



Here is the caller graph for this function:



#### 6.65.2.8 GetTypeList()

```
ArrayList<String> data.UserData_Tools.GetTypeList ( )
```

Here is the call graph for this function:

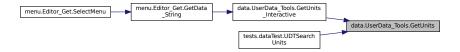


#### 6.65.2.9 GetUnits()

Here is the call graph for this function:



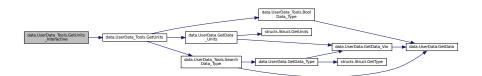
Here is the caller graph for this function:



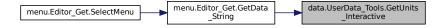
#### 6.65.2.10 GetUnits\_Interactive()

```
String data.UserData_Tools.GetUnits_Interactive ( String \ target \ )
```

Here is the call graph for this function:

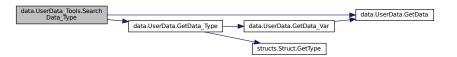


Here is the caller graph for this function:

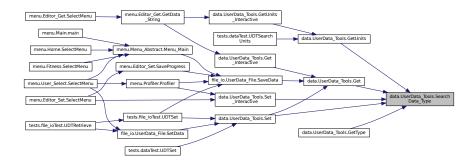


#### 6.65.2.11 SearchData\_Type()

Here is the call graph for this function:



Here is the caller graph for this function:

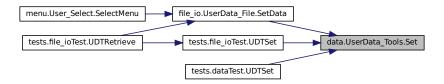


#### 6.65.2.12 Set()

Here is the call graph for this function:



Here is the caller graph for this function:



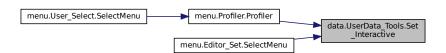
#### 6.65.2.13 Set\_Interactive()

```
boolean data.UserData_Tools.Set_Interactive ( {\tt String} \ target \ )
```

Here is the call graph for this function:



Here is the caller graph for this function:



#### 6.65.3 Member Data Documentation

#### 6.65.3.1 z

UserData data.UserData\_Tools.z [private]

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

• /home/jamie/java/forms\_project/src/lib/data/UserData\_Tools.java

#### 6.66 data.UserDataIndex Enum Reference

Collaboration diagram for data.UserDataIndex:

#### data.UserDataIndex

- + STEPS
- + RESTING\_BPM
- + HEIGHT
- + WEIGHT
- + BODY\_FAT + ACTIVITY\_LEVEL
- + BENCH
- + DEADLIFT
- + SQUAT
- + INFO
- + GENDER
- index
- + UserDataIndex()
- + getIndex()

#### **Public Member Functions**

- UserDataIndex (int index)
- int getIndex ()

#### **Public Attributes**

- STEPS =(0)
- RESTING BPM =(1)
- HEIGHT =(2)
- **WEIGHT** =(3)
- BODY\_FAT =(4)
- ACTIVITY LEVEL =(5)
- BENCH =(6)
- **DEADLIFT** =(7)
- **SQUAT** =(8)
- INFO =(9)
- **GENDER** =(10)

#### **Private Attributes**

final int index

#### 6.66.1 Constructor & Destructor Documentation

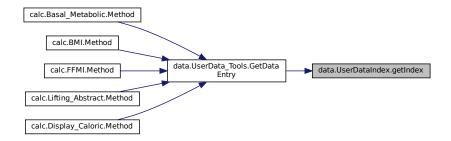
#### 6.66.1.1 UserDataIndex()

#### 6.66.2 Member Function Documentation

#### 6.66.2.1 getIndex()

```
int data.UserDataIndex.getIndex ( )
```

Here is the caller graph for this function:



#### 6.66.3 Member Data Documentation

#### 6.66.3.1 ACTIVITY\_LEVEL

data.UserDataIndex.ACTIVITY\_LEVEL = (5)

#### 6.66.3.2 BENCH

data.UserDataIndex.BENCH = (6)

#### 6.66.3.3 BODY\_FAT

data.UserDataIndex.BODY\_FAT = (4)

#### 6.66.3.4 **DEADLIFT**

data.UserDataIndex.DEADLIFT = (7)

#### 6.66.3.5 **GENDER**

data.UserDataIndex.GENDER = (10)

#### 6.66.3.6 HEIGHT

data.UserDataIndex.HEIGHT = (2)

#### 6.66.3.7 index

final int data.UserDataIndex.index [private]

#### 6.66.3.8 INFO

data.UserDataIndex.INFO = (9)

#### 6.66.3.9 RESTING\_BPM

data.UserDataIndex.RESTING\_BPM = (1)

#### 6.66.3.10 SQUAT

data.UserDataIndex.SQUAT =(8)

#### 6.66.3.11 STEPS

```
data.UserDataIndex.STEPS = (0)
```

#### 6.66.3.12 WEIGHT

```
data.UserDataIndex.WEIGHT =(3)
```

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

• /home/jamie/java/forms\_project/src/lib/data/UserDataIndex.java

#### 6.67 file\_io.UserList Class Reference

Collaboration diagram for file\_io.UserList:

file\_io.UserList
- pathname
+ GetUserList()

#### **Static Public Member Functions**

• static ArrayList< String > GetUserList ()

#### **Static Private Attributes**

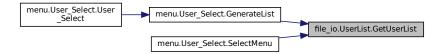
• static String pathname = "users"

#### 6.67.1 Member Function Documentation

#### 6.67.1.1 GetUserList()

```
static ArrayList<String> file_io.UserList.GetUserList ( ) [static]
```

Here is the caller graph for this function:



#### 6.67.2 Member Data Documentation

#### 6.67.2.1 pathname

```
String file_io.UserList.pathname = "users" [static], [private]
```

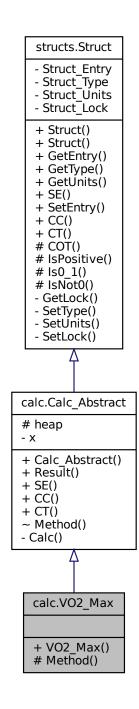
The documentation for this class was generated from the following file:

• /home/jamie/java/forms\_project/src/lib/file\_io/UserList.java

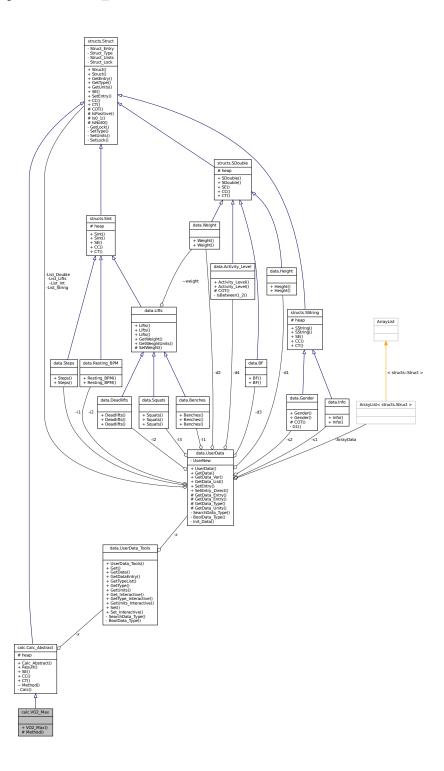
#### 6.68 calc.VO2\_Max Class Reference

Calculates and returns VO2 Max values.

Inheritance diagram for calc.VO2\_Max:



Collaboration diagram for calc.VO2\_Max:



#### **Public Member Functions**

VO2\_Max (UserData z)

Constructor for the class that uses #UserData.

#### **Protected Member Functions**

Object Method (UserData\_Tools use)

The body of the calculations.

#### **Additional Inherited Members**

#### 6.68.1 Detailed Description

Calculates and returns VO2 Max values.

#### 6.68.2 Constructor & Destructor Documentation

#### 6.68.2.1 VO2\_Max()

```
calc.VO2_Max.VO2_Max ( UserData z )
```

Constructor for the class that uses #UserData.

#### **Parameters**

z User's data.

#### 6.68.3 Member Function Documentation

#### 6.68.3.1 Method()

The body of the calculations.

#### **Parameters**

use Instance of using the user's values to calculate the value of the class.

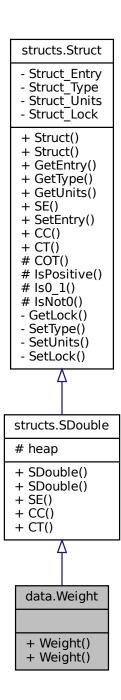
Reimplemented from calc.Calc\_Abstract.

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

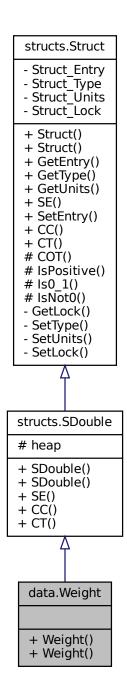
• /home/jamie/java/forms\_project/src/lib/calc/VO2\_Max.java

#### 6.69 data. Weight Class Reference

Inheritance diagram for data. Weight:



Collaboration diagram for data. Weight:



#### **Public Member Functions**

- Weight ()
- Weight (double o)

#### **Additional Inherited Members**

#### 6.69.1 Constructor & Destructor Documentation

#### 6.69.1.1 Weight() [1/2]

```
data.Weight.Weight ( )
```

#### 6.69.1.2 Weight() [2/2]

```
data.Weight.Weight ( double o )
```

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

• /home/jamie/java/forms\_project/src/lib/data/Weight.java

### **Chapter 7**

### **File Documentation**

7.1 /home/jamie/java/forms\_project/src/lib/calc/Barbell\_Curl.java File Reference

#### **Classes**

• class calc.Barbell\_Curl

#### **Packages**

- package calc
- 7.2 /home/jamie/java/forms\_project/src/lib/calc/Basal\_Metabolic.java File Reference

#### Classes

• class calc.Basal\_Metabolic

Calculates and returns Basal Metabolic values.

#### **Packages**

- package calc
- 7.3 /home/jamie/java/forms\_project/src/lib/calc/Bench\_Press.java File Reference

#### **Classes**

• class calc.Bench\_Press

#### **Packages**

• package calc

#### 7.4 /home/jamie/java/forms\_project/src/lib/calc/BMI.java File Reference

#### **Classes**

· class calc.BMI

Calculates and returns BMI values.

#### **Packages**

· package calc

### 7.5 /home/jamie/java/forms\_project/src/lib/calc/Calc\_Abstract.java File Reference

#### **Classes**

· class calc.Calc\_Abstract

Contains abstract methods to calculate and return calculations.

#### **Packages**

· package calc

### 7.6 /home/jamie/java/forms\_project/src/lib/calc/Deadlift.java File Reference

#### **Classes**

· class calc.Deadlift

#### **Packages**

• package calc

### 7.7 /home/jamie/java/forms\_project/src/lib/calc/Display\_Caloric.java File Reference

#### **Classes**

• class calc.Display\_Caloric

Calculates and returns Display Caloric values.

#### **Packages**

• package calc

#### 7.8 /home/jamie/java/forms\_project/src/lib/calc/FFMI.java File Reference

#### **Classes**

· class calc.FFMI

Calculates and returns FFMI values.

#### **Packages**

• package calc

### 7.9 /home/jamie/java/forms\_project/src/lib/calc/Lifting\_Abstract.java File Reference

#### **Classes**

class calc.Lifting\_Abstract

Calculates and returns Lifting Stats values.

#### **Packages**

• package calc

### 7.10 /home/jamie/java/forms\_project/src/lib/calc/Shoulder\_Press.java File Reference

#### Classes

• class calc.Shoulder\_Press

#### **Packages**

package calc

### 7.11 /home/jamie/java/forms\_project/src/lib/calc/Squat.java File Reference

#### Classes

class calc.Squat

#### **Packages**

• package calc

### 7.12 /home/jamie/java/forms\_project/src/lib/calc/UserData\_Calc.java File Reference

#### **Classes**

· class calc.UserData Calc

Class that stores all results of the calculations.

#### **Packages**

· package calc

## 7.13 /home/jamie/java/forms\_project/src/lib/calc/VO2\_Max.java File Reference

#### Classes

class calc.VO2\_Max

Calculates and returns VO2 Max values.

#### **Packages**

· package calc

# 7.14 /home/jamie/java/forms\_project/src/lib/data/Activity\_Level.java File Reference

#### **Classes**

class data.Activity\_Level

The class that holds Activity\_Level data.

#### **Packages**

package data

### 7.15 /home/jamie/java/forms\_project/src/lib/data/Benches.java File Reference

#### Classes

· class data.Benches

The class that holds Benches data.

#### **Packages**

• package data

#### 7.16 /home/jamie/java/forms project/src/lib/data/BF.java File Reference

#### **Classes**

· class data.BF

The class that holds BF data.

#### **Packages**

• package data

## 7.17 /home/jamie/java/forms\_project/src/lib/data/Deadlifts.java File Reference

#### **Classes**

class data.Deadlifts

The class that holds Deadlifts data.

#### **Packages**

· package data

### 7.18 /home/jamie/java/forms\_project/src/lib/data/Gender.java File Reference

#### **Classes**

· class data.Gender

The class that holds the user's Gender.

#### **Packages**

· package data

### 7.19 /home/jamie/java/forms\_project/src/lib/data/Height.java File Reference

#### **Classes**

· class data. Height

The class that holds Height data.

#### **Packages**

· package data

#### 7.20 /home/jamie/java/forms\_project/src/lib/data/Info.java File Reference

#### **Classes**

· class data.Info

The class that holds the user's Info.

#### **Packages**

• package data

#### 7.21 /home/jamie/java/forms\_project/src/lib/data/Lifts.java File Reference

#### **Classes**

· class data.Lifts

The abstract class that defines the lifts, using also the Weight class as an object.

#### **Packages**

• package data

### 7.22 /home/jamie/java/forms\_project/src/lib/data/Resting\_BPM.java File Reference

#### Classes

class data.Resting\_BPM

#### **Packages**

· package data

### 7.23 /home/jamie/java/forms\_project/src/lib/data/Squats.java File Reference

#### **Classes**

· class data.Squats

#### **Packages**

• package data

### 7.24 /home/jamie/java/forms\_project/src/lib/data/Steps.java File Reference

#### **Classes**

· class data.Steps

#### **Packages**

• package data

### 7.25 /home/jamie/java/forms\_project/src/lib/data/UserData.java File Reference

#### **Classes**

· class data.UserData

#### **Packages**

· package data

### 7.26 /home/jamie/java/forms\_project/src/lib/data/UserData\_Tools.java File Reference

#### **Classes**

• class data.UserData\_Tools

#### **Packages**

• package data

## 7.27 /home/jamie/java/forms\_project/src/lib/data/UserDataIndex.java File Reference

#### **Classes**

• enum data.UserDataIndex

#### **Packages**

· package data

## 7.28 /home/jamie/java/forms\_project/src/lib/data/Weight.java File Reference

#### **Classes**

· class data.Weight

#### **Packages**

• package data

### 7.29 /home/jamie/java/forms\_project/src/lib/file\_io/UserData\_File.java File Reference

#### Classes

• class file\_io.UserData\_File

#### **Packages**

· package file\_io

## 7.30 /home/jamie/java/forms\_project/src/lib/file\_io/UserList.java File Reference

#### **Classes**

class file\_io.UserList

#### **Packages**

- package file\_io
- 7.31 /home/jamie/java/forms\_project/src/lib/gui/driver/FormProject

  Driver.java File

  Reference

#### **Classes**

· class driver.FormProjectDriver

#### **Packages**

- · package driver
- 7.32 /home/jamie/java/forms\_project/src/lib/gui/gui/BaseScene.java File Reference

#### Classes

· class gui.BaseScene

#### **Packages**

- package gui
- 7.33 /home/jamie/java/forms\_project/src/lib/gui/gui/EighthScene.java File Reference

#### Classes

· class gui.EighthScene

#### **Packages**

- package gui
- 7.34 /home/jamie/java/forms\_project/src/lib/gui/gui/FifthScene.java File Reference

#### **Classes**

• class gui.FifthScene

#### **Packages**

· package gui

## 7.35 /home/jamie/java/forms\_project/src/lib/gui/gui/FirstScene.java File Reference

#### **Classes**

• class gui.FirstScene

#### **Packages**

· package gui

### 7.36 /home/jamie/java/forms\_project/src/lib/gui/gui/FourthScene.java File Reference

#### **Classes**

· class gui.FourthScene

#### **Packages**

• package gui

### 7.37 /home/jamie/java/forms\_project/src/lib/gui/gui/SecondScene.java File Reference

#### Classes

• class gui.SecondScene

#### **Packages**

· package gui

### 7.38 /home/jamie/java/forms\_project/src/lib/gui/gui/SeventhScene.java File Reference

#### **Classes**

· class gui.SeventhScene

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### 7.39 /home/jamie/java/forms\_project/src/lib/gui/gui/SixthScene.java File Reference

#### Classes

· class gui.SixthScene

#### **Packages**

• package gui

### 7.40 /home/jamie/java/forms\_project/src/lib/gui/gui/ThirdScene.java File Reference

#### **Classes**

· class gui.ThirdScene

#### **Packages**

• package gui

# 7.41 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnBack1← Handler.java File Reference

#### **Classes**

• class handlers.BtnBack1Handler

#### **Packages**

package handlers

7.42 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnBack

Handler.java File

Reference

#### **Classes**

· class handlers.BtnBackHandler

#### **Packages**

- · package handlers
- 7.43 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnLogin 
  Handler.java File
  Reference

#### **Classes**

· class handlers.BtnLoginHandler

#### **Packages**

- · package handlers
- 7.44 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnNewUser 
  Handler.java File
  Reference

#### **Classes**

• class handlers.BtnNewUserHandler

#### **Packages**

- package handlers
- 7.45 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnQuit

  Handler.java File

  Reference

#### Classes

· class handlers.BtnQuitHandler

#### **Packages**

- · package handlers
- 7.46 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnStart

  Handler.java File

  Reference

#### **Classes**

· class handlers.BtnStartHandler

#### **Packages**

- · package handlers
- 7.47 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnTLift

  Handler.java File

  Reference

#### **Classes**

· class handlers.BtnTLiftHandler

#### **Packages**

- · package handlers
- 7.48 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnTrack

  Handler.java File

  Reference

#### **Classes**

· class handlers.BtnTrackHandler

#### **Packages**

package handlers

7.49 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnTWeight

Handler.java File

Reference

#### **Classes**

· class handlers.BtnTWeightHandler

#### **Packages**

- · package handlers
- 7.50 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnUpdate

  Handler.java File

  Reference

#### **Classes**

· class handlers.BtnUpdateHandler

#### **Packages**

- · package handlers
- 7.51 /home/jamie/java/forms\_project/src/lib/gui/handlers/BtnView 
  Handler.java File
  Reference

#### Classes

• class handlers.BtnViewHandler

#### **Packages**

· package handlers

### 7.52 /home/jamie/java/forms\_project/src/lib/menu/Editor.java File Reference

#### **Classes**

· class menu.Editor

The main menu for choosing either to get values or set values in the main program.

#### **Packages**

· package menu

### 7.53 /home/jamie/java/forms\_project/src/lib/menu/Editor\_Abstract.java File Reference

#### **Classes**

· class menu.Editor\_Abstract

This class extends the abstract class Menu\_Abstract, which provides the structure for editing and viewing the #← UserData.

#### **Packages**

· package menu

### 7.54 /home/jamie/java/forms\_project/src/lib/menu/Editor\_Get.java File Reference

#### **Classes**

· class menu.Editor\_Get

Class that provides a User Interface to Editor\_Abstract, specifically to get values.

#### **Packages**

· package menu

## 7.55 /home/jamie/java/forms\_project/src/lib/menu/Editor\_Set.java File Reference

#### **Classes**

· class menu.Editor\_Set

Class that creates a Menu user interface to edit any #UserData values.

#### **Packages**

package menu

### 7.56 /home/jamie/java/forms\_project/src/lib/menu/Fitness.java File Reference

#### **Classes**

• class menu.Fitness

The Menu Interface for the Fitness class.

#### **Packages**

· package menu

## 7.57 /home/jamie/java/forms\_project/src/lib/menu/Home.java File Reference

#### **Classes**

· class menu. Home

The Home Menu interface.

#### **Packages**

• package menu

## 7.58 /home/jamie/java/forms\_project/src/lib/menu/Lifting\_Stats.java File Reference

#### **Classes**

• class menu.Lifting\_Stats

#### **Packages**

• package menu

### 7.59 /home/jamie/java/forms\_project/src/lib/menu/Main.java File Reference

#### **Classes**

· class menu.Main

The main class that runs the TUI.

### **Packages**

• package menu

# 7.60 /home/jamie/java/forms\_project/src/lib/menu/Menu\_Abstract.java File Reference

#### **Classes**

· class menu.Menu\_Abstract

The template class that provides the skeleton menu interface.

### **Packages**

• package menu

# 7.61 /home/jamie/java/forms\_project/src/lib/menu/Menu\_Entry.java File Reference

#### **Classes**

• class menu.Menu\_Entry

Class that provides the entry data structure.

### **Packages**

• package menu

# 7.62 /home/jamie/java/forms\_project/src/lib/menu/Profiler.java File Reference

#### **Classes**

· class menu.Profiler

### **Packages**

package menu

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# 7.63 /home/jamie/java/forms\_project/src/lib/menu/User\_Select.java File Reference

#### **Classes**

• class menu.User\_Select

### **Packages**

• package menu

# 7.64 /home/jamie/java/forms\_project/src/lib/structs/SDouble.java File Reference

#### **Classes**

· class structs.SDouble

The class that holds Double-typed data.

## **Packages**

• package structs

# 7.65 /home/jamie/java/forms\_project/src/lib/structs/Slnt.java File Reference

#### Classes

· class structs.SInt

The class that holds Integer-typed data.

### **Packages**

· package structs

# 7.66 /home/jamie/java/forms\_project/src/lib/structs/SString.java File Reference

#### **Classes**

· class structs.SString

The class that holds String-typed data.

### **Packages**

• package structs

# 7.67 /home/jamie/java/forms\_project/src/lib/structs/Struct.java File Reference

#### Classes

· class structs.Struct

Provides the foundational DataType and primitive methods for all various inputs.

### **Packages**

• package structs

# 7.68 /home/jamie/java/forms\_project/src/lib/tests/dataTest.java File Reference

#### **Classes**

class tests.dataTest

### **Packages**

· package tests

# 7.69 /home/jamie/java/forms\_project/src/lib/tests/file\_ioTest.java File Reference

#### **Classes**

· class tests.file\_ioTest

### **Packages**

· package tests

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