



# RU Healthy?

## Technical Documentation

### **Class**

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### **Group #2**

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### **Website**

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# Chapter 1

## Namespace Index

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# Class Index

### 3.1 Class List

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# Namespace Documentation

### 5.1 Package com

#### Packages

- package [example](#)

### 5.2 Package com.example

#### Packages

- package [softwareengineering](#)

### 5.3 Package com.example.softwareengineering

#### Classes

- class [AlarmReceiver](#)
- class [BayesianPrediction](#)
- class [CircularProgressBar](#)
- class [DashboardActivity](#)
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- class [RecoveryRate](#)
- class [RecyclerViewClickListener](#)

- class [RegisterActivity](#)
- class [SelectPhysician](#)
- class [SensorFilter](#)
- class [SplashActivity](#)
- class [StepCounter](#)
- class [StepDetector](#)
- interface [StepListener](#)
- class [ToDo](#)
- class [ToDoAdapter](#)
- class [ToDoMain](#)
- class [UserInformation](#)

## Chapter 6

# Class Documentation

### 6.1 com.example.softwareengineering.AlarmReceiver Class Reference

Inheritance diagram for com.example.softwareengineering.AlarmReceiver:

### 6.2 com.example.softwareengineering.BayesianPrediction Class Reference

Inheritance diagram for com.example.softwareengineering.BayesianPrediction:

Collaboration diagram for com.example.softwareengineering.BayesianPrediction:

#### Public Member Functions

- final void [MyHelp](#) (double pred)
- void [onCreate](#) (Bundle savedInstanceState)

#### Static Public Member Functions

- static void [Prediction](#) ()
- static double [getPred](#) ()

#### Package Attributes

- TextView [tv](#) = (TextView) findViewById(R.id.text1)

#### Static Package Attributes

- static FirebaseAuth [auth](#)
- static FirebaseUser [user](#)
- static DatabaseReference [databaseReference](#)
- static DatabaseReference [dr1](#)
- static ArrayList < String > [myList](#) = new ArrayList < >()
- static final int [CONTEXT\\_IGNORE\\_SECURITY](#) = 1
- static double [predictedValue](#) = 0

### 6.2.1 Detailed Description

Created by RAMYA on 12/5/2017.

Definition at line 30 of file BayesianPrediction.java.

### 6.2.2 Member Function Documentation

#### 6.2.2.1 getPred()

```
static double com.example.softwareengineering.BayesianPrediction.getPred ( ) [static]
```

Definition at line 333 of file BayesianPrediction.java.

#### 6.2.2.2 MyHelp()

```
final void com.example.softwareengineering.BayesianPrediction.MyHelp (
    double pred )
```

Definition at line 58 of file BayesianPrediction.java.

#### 6.2.2.3 onCreate()

```
void com.example.softwareengineering.BayesianPrediction.onCreate (
    Bundle savedInstanceState )
```

Definition at line 68 of file BayesianPrediction.java.

#### 6.2.2.4 Prediction()

```
static void com.example.softwareengineering.BayesianPrediction.Prediction ( ) [static]
```

Definition at line 74 of file BayesianPrediction.java.

### 6.2.3 Member Data Documentation



## 6.2.3.1 auth

```
FirebaseAuth com.example.softwareengineering.BayesianPrediction.auth [static], [package]
```

Definition at line 32 of file BayesianPrediction.java.

## 6.2.3.2 CONTEXT\_IGNORE\_SECURITY

```
final int com.example.softwareengineering.BayesianPrediction.CONTEXT_IGNORE_SECURITY = 1 [static],  
[package]
```

Definition at line 37 of file BayesianPrediction.java.

## 6.2.3.3 databaseReference

```
DatabaseReference com.example.softwareengineering.BayesianPrediction.databaseReference [static],  
[package]
```

Definition at line 34 of file BayesianPrediction.java.

## 6.2.3.4 dr1

```
DatabaseReference com.example.softwareengineering.BayesianPrediction.dr1 [static], [package]
```

Definition at line 34 of file BayesianPrediction.java.

## 6.2.3.5 myList

```
ArrayList<String> com.example.softwareengineering.BayesianPrediction.myList = new ArrayList<String>()  
[static], [package]
```

Definition at line 35 of file BayesianPrediction.java.

## 6.2.3.6 predictedValue

```
double com.example.softwareengineering.BayesianPrediction.predictedValue = 0 [static], [package]
```

Definition at line 38 of file BayesianPrediction.java.

## 6.2.3.7 tv

```
TextView com.example.softwareengineering.BayesianPrediction.tv = (TextView) findViewById(R.id.text1) [package]
```

Definition at line 40 of file BayesianPrediction.java.

## 6.2.3.8 user

```
FirebaseUser com.example.softwareengineering.BayesianPrediction.user [static], [package]
```

Definition at line 33 of file BayesianPrediction.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[BayesianPrediction.java](#)

## 6.3 com.example.softwareengineering.CircularProgressBar Class Reference

Inheritance diagram for com.example.softwareengineering.CircularProgressBar:

Collaboration diagram for com.example.softwareengineering.CircularProgressBar:

## Public Member Functions

- [CircularProgressBar](#) (Context context)
- [CircularProgressBar](#) (Context context, AttributeSet attrs)
- [CircularProgressBar](#) (Context context, AttributeSet attrs, int defStyleAttr)
- void [setProgress](#) (int progress)
- void [setProgressColor](#) (int color)
- void [setProgressWidth](#) (int width)
- void [setTextColor](#) (int color)
- void [showProgressText](#) (boolean show)
- void [useRoundedCorners](#) (boolean roundedCorners)

## Protected Member Functions

- void [onDraw](#) (Canvas canvas)

## Private Member Functions

- void [initMeasurments](#) ()
- void [drawOutlineArc](#) (Canvas canvas)
- void [drawText](#) (Canvas canvas)
- float [calcSweepAngleFromProgress](#) (int progress)
- int [calcProgressFromSweepAngle](#) (float sweepAngle)

## Private Attributes

- int [mViewWidth](#)
- int [mViewHeight](#)
- final float [mStartAngle](#) = -90
- float [mSweepAngle](#) = 0
- float [mMaxSweepAngle](#) = 360
- int [mStrokeWidth](#) = 20
- int [mAnimationDuration](#) = 400
- int [mMaxProgress](#) = 1000
- boolean [mDrawText](#) = true
- boolean [mRoundedCorners](#) = true
- int [mProgressColor](#) = Color.BLACK
- int [mTextColor](#) = Color.BLACK
- final Paint [mPaint](#)

### 6.3.1 Detailed Description

Definition at line 19 of file CircularProgressBar.java.

### 6.3.2 Constructor & Destructor Documentation

#### 6.3.2.1 CircularProgressBar() [1/3]

```
com.example.softwareengineering.CircularProgressBar.CircularProgressBar (  
    Context context )
```

Definition at line 37 of file CircularProgressBar.java.

#### 6.3.2.2 CircularProgressBar() [2/3]

```
com.example.softwareengineering.CircularProgressBar.CircularProgressBar (  
    Context context,  
    AttributeSet attrs )
```

Definition at line 41 of file CircularProgressBar.java.

#### 6.3.2.3 CircularProgressBar() [3/3]

```
com.example.softwareengineering.CircularProgressBar.CircularProgressBar (  
    Context context,  
    AttributeSet attrs,  
    int defStyleAttr )
```

Definition at line 45 of file CircularProgressBar.java.

### 6.3.3 Member Function Documentation

#### 6.3.3.1 calcProgressFromSweepAngle()

```
int com.example.softwareengineering.CircularProgressBar.calcProgressFromSweepAngle (
    float sweepAngle ) [private]
```

Definition at line 98 of file CircularProgressBar.java.

#### 6.3.3.2 calcSweepAngleFromProgress()

```
float com.example.softwareengineering.CircularProgressBar.calcSweepAngleFromProgress (
    int progress ) [private]
```

Definition at line 94 of file CircularProgressBar.java.

#### 6.3.3.3 drawOutlineArc()

```
void com.example.softwareengineering.CircularProgressBar.drawOutlineArc (
    Canvas canvas ) [private]
```

Definition at line 66 of file CircularProgressBar.java.

#### 6.3.3.4 drawText()

```
void com.example.softwareengineering.CircularProgressBar.drawText (
    Canvas canvas ) [private]
```

Definition at line 80 of file CircularProgressBar.java.

#### 6.3.3.5 initMeasurments()

```
void com.example.softwareengineering.CircularProgressBar.initMeasurments ( ) [private]
```

Definition at line 61 of file CircularProgressBar.java.

## 6.3.3.6 onDraw()

```
void com.example.softwareengineering.CircularProgressBar.onDraw (  
    Canvas canvas ) [protected]
```

Definition at line 51 of file CircularProgressBar.java.

## 6.3.3.7 setProgress()

```
void com.example.softwareengineering.CircularProgressBar.setProgress (  
    int progress )
```

Set progress of the circular progress bar.

## Parameters

<i>progress</i>	progress between 0 and 100.
-----------------	-----------------------------

Definition at line 106 of file CircularProgressBar.java.

## 6.3.3.8 setProgressColor()

```
void com.example.softwareengineering.CircularProgressBar.setProgressColor (
    int color )
```

Definition at line 120 of file CircularProgressBar.java.

## 6.3.3.9 setProgressWidth()

```
void com.example.softwareengineering.CircularProgressBar.setProgressWidth (
    int width )
```

Definition at line 125 of file CircularProgressBar.java.

## 6.3.3.10 setTextColor()

```
void com.example.softwareengineering.CircularProgressBar.setTextColor (
    int color )
```

Definition at line 130 of file CircularProgressBar.java.

## 6.3.3.11 showProgressText()

```
void com.example.softwareengineering.CircularProgressBar.showProgressText (
    boolean show )
```

Definition at line 135 of file CircularProgressBar.java.

## 6.3.3.12 useRoundedCorners()

```
void com.example.softwareengineering.CircularProgressBar.useRoundedCorners (
    boolean roundedCorners )
```

Toggle this if you don't want rounded corners on progress bar. Default is true.

## Parameters

<i>roundedCorners</i>	true if you want rounded corners of false otherwise.
-----------------------	--

Definition at line 145 of file CircularProgressBar.java.

### 6.3.4 Member Data Documentation

#### 6.3.4.1 mAnimationDuration

```
int com.example.softwareengineering.CircularProgressBar.mAnimationDuration = 400 [private]
```

Definition at line 28 of file CircularProgressBar.java.

#### 6.3.4.2 mDrawText

```
boolean com.example.softwareengineering.CircularProgressBar.mDrawText = true [private]
```

Definition at line 30 of file CircularProgressBar.java.

#### 6.3.4.3 mMaxProgress

```
int com.example.softwareengineering.CircularProgressBar.mMaxProgress = 1000 [private]
```

Definition at line 29 of file CircularProgressBar.java.

#### 6.3.4.4 mMaxSweepAngle

```
float com.example.softwareengineering.CircularProgressBar.mMaxSweepAngle = 360 [private]
```

Definition at line 26 of file CircularProgressBar.java.

#### 6.3.4.5 mPaint

```
final Paint com.example.softwareengineering.CircularProgressBar.mPaint [private]
```

Definition at line 35 of file CircularProgressBar.java.

#### 6.3.4.6 mProgressColor

```
int com.example.softwareengineering.CircularProgressBar.mProgressColor = Color.BLACK [private]
```

Definition at line 32 of file CircularProgressBar.java.

#### 6.3.4.7 mRoundedCorners

```
boolean com.example.softwareengineering.CircularProgressBar.mRoundedCorners = true [private]
```

Definition at line 31 of file CircularProgressBar.java.

#### 6.3.4.8 mStartAngle

```
final float com.example.softwareengineering.CircularProgressBar.mStartAngle = -90 [private]
```

Definition at line 24 of file CircularProgressBar.java.

#### 6.3.4.9 mStrokeWidth

```
int com.example.softwareengineering.CircularProgressBar.mStrokeWidth = 20 [private]
```

Definition at line 27 of file CircularProgressBar.java.

#### 6.3.4.10 mSweepAngle

```
float com.example.softwareengineering.CircularProgressBar.mSweepAngle = 0 [private]
```

Definition at line 25 of file CircularProgressBar.java.

#### 6.3.4.11 mTextColor

```
int com.example.softwareengineering.CircularProgressBar.mTextColor = Color.BLACK [private]
```

Definition at line 33 of file CircularProgressBar.java.



## 6.3.4.12 mViewHeight

```
int com.example.softwareengineering.CircularProgressBar.mViewHeight [private]
```

Definition at line 22 of file CircularProgressBar.java.

## 6.3.4.13 mViewWidth

```
int com.example.softwareengineering.CircularProgressBar.mViewWidth [private]
```

Definition at line 21 of file CircularProgressBar.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[CircularProgressBar.java](#)

## 6.4 com.example.softwareengineering.DashboardActivity Class Reference

Inheritance diagram for com.example.softwareengineering.DashboardActivity:

Collaboration diagram for com.example.softwareengineering.DashboardActivity:

### Public Member Functions

- void [onBackPressed](#) ()

### Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)

### Package Attributes

- ImageButton [HRM](#)
- ImageButton [Profile](#)
- Button [LogOUT](#)
- ImageButton [Step](#)
- FirebaseAuth [auth](#)
- ImageButton [todo](#)
- ImageButton [rr](#)
- ImageButton [physs](#)
- DatabaseReference [databaseReference](#)
- FirebaseUser [user](#)

## Private Attributes

- boolean `_doubleBackToExitPressedOnce` = false

### 6.4.1 Detailed Description

Created by HIMABINDU on 11/29/2017.

Definition at line 23 of file DashboardActivity.java.

### 6.4.2 Member Function Documentation

#### 6.4.2.1 onBackPressed()

```
void com.example.softwareengineering.DashboardActivity.onBackPressed ( )
```

Definition at line 156 of file DashboardActivity.java.

#### 6.4.2.2 onCreate()

```
void com.example.softwareengineering.DashboardActivity.onCreate (
    Bundle savedInstanceState ) [protected]
```

Definition at line 39 of file DashboardActivity.java.

### 6.4.3 Member Data Documentation

#### 6.4.3.1 \_doubleBackToExitPressedOnce

```
boolean com.example.softwareengineering.DashboardActivity._doubleBackToExitPressedOnce = false
[private]
```

Definition at line 37 of file DashboardActivity.java.

## 6.4.3.2 auth

FirebaseAuth com.example.softwareengineering.DashboardActivity.auth [package]

Definition at line 31 of file DashboardActivity.java.

## 6.4.3.3 databaseReference

DatabaseReference com.example.softwareengineering.DashboardActivity.databaseReference [package]

Definition at line 35 of file DashboardActivity.java.

## 6.4.3.4 HRM

ImageButton com.example.softwareengineering.DashboardActivity.HRM [package]

Definition at line 27 of file DashboardActivity.java.

## 6.4.3.5 LogOUT

Button com.example.softwareengineering.DashboardActivity.LogOUT [package]

Definition at line 29 of file DashboardActivity.java.

## 6.4.3.6 physs

ImageButton com.example.softwareengineering.DashboardActivity.physs [package]

Definition at line 34 of file DashboardActivity.java.

## 6.4.3.7 Profile

ImageButton com.example.softwareengineering.DashboardActivity.Profile [package]

Definition at line 28 of file DashboardActivity.java.

#### 6.4.3.8 rr

`ImageButton com.example.softwareengineering.DashboardActivity.rr [package]`

Definition at line 33 of file DashboardActivity.java.

#### 6.4.3.9 Step

`ImageButton com.example.softwareengineering.DashboardActivity.Step [package]`

Definition at line 30 of file DashboardActivity.java.

#### 6.4.3.10 todo

`ImageButton com.example.softwareengineering.DashboardActivity.todo [package]`

Definition at line 32 of file DashboardActivity.java.

#### 6.4.3.11 user

`FirebaseUser com.example.softwareengineering.DashboardActivity.user [package]`

Definition at line 36 of file DashboardActivity.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[DashboardActivity.java](#)

## 6.5 com.example.softwareengineering.Data Class Reference

### Public Member Functions

- [Data](#) (String [dt](#), Long [rate](#))
- String [getDate](#) ()
- Long [getRate](#) ()

### Package Attributes

- String [dt](#)
- Long [rate](#)

## Private Member Functions

- [Data \(\)](#)

### 6.5.1 Detailed Description

Created by HIMABINDU on 12/11/2017.

Definition at line 7 of file Data.java.

### 6.5.2 Constructor & Destructor Documentation

#### 6.5.2.1 Data() [ 1 / 2 ]

```
com.example.softwareengineering.Data.Data ( ) [private]
```

Definition at line 12 of file Data.java.

#### 6.5.2.2 Data() [ 2 / 2 ]

```
com.example.softwareengineering.Data.Data (
    String dt,
    Long rate )
```

Definition at line 17 of file Data.java.

### 6.5.3 Member Function Documentation

#### 6.5.3.1 getDate()

```
String com.example.softwareengineering.Data.getDate ( )
```

Definition at line 23 of file Data.java.

#### 6.5.3.2 getRate()

```
Long com.example.softwareengineering.Data.getRate ( )
```

Definition at line 28 of file Data.java.

### 6.5.4 Member Data Documentation

#### 6.5.4.1 dt

```
String com.example.softwareengineering.Data.dt [package]
```

Definition at line 9 of file Data.java.

#### 6.5.4.2 rate

```
Long com.example.softwareengineering.Data.rate [package]
```

Definition at line 10 of file Data.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[Data.java](#)

## 6.6 com.example.softwareengineering.DatabaseHandler Class Reference

Inheritance diagram for com.example.softwareengineering.DatabaseHandler:

Collaboration diagram for com.example.softwareengineering.DatabaseHandler:

### Public Member Functions

- [DatabaseHandler](#) (Context context)
- void [onCreate](#) (SQLiteDatabase db)
- void [onUpgrade](#) (SQLiteDatabase db, int oldVersion, int newVersion)
- boolean [addToDo](#) ([ToDo](#) toDo)
- int [getLastID](#) ()
- ArrayList< [ToDo](#) > [getAllToDo](#) ()
- void [deleteToDo](#) ([ToDo](#) toDo)
- boolean [updateToDo](#) ([ToDo](#) toDo)
- void [toggleAlarm](#) ([ToDo](#) toDo)

### Static Private Attributes

- static final int [DB\\_VERSION](#) =1
- static final String [DB\\_NAME](#) ="ToDoDB.db"
- static final String [TABLE\\_NAME](#) ="ToDo"
- static final String [COL\\_ID](#) ="id"
- static final String [COL\\_TITLE](#) ="title"
- static final String [COL\\_DETAILS](#) ="details"
- static final String [COL\\_DATE](#) ="date"
- static final String [COL\\_TIME](#) ="time"
- static final String [COL\\_NOTIFICATION\\_STATE](#) ="notification\_state"
- static final String [QUERY\\_CREATE\\_TABLE](#)

### 6.6.1 Detailed Description

Definition at line 19 of file DatabaseHandler.java.

### 6.6.2 Constructor & Destructor Documentation

#### 6.6.2.1 DatabaseHandler()

```
com.example.softwareengineering.DatabaseHandler.DatabaseHandler (
    Context context )
```

Definition at line 35 of file DatabaseHandler.java.

### 6.6.3 Member Function Documentation

#### 6.6.3.1 addToDo()

```
boolean com.example.softwareengineering.DatabaseHandler.addToDo (
    ToDo todo )
```

Definition at line 56 of file DatabaseHandler.java.

#### 6.6.3.2 deleteToDo()

```
void com.example.softwareengineering.DatabaseHandler.deleteToDo (
    ToDo todo )
```

Definition at line 129 of file DatabaseHandler.java.

#### 6.6.3.3 getAllToDo()

```
ArrayList<ToDo> com.example.softwareengineering.DatabaseHandler.getAllToDo ( )
```

Definition at line 99 of file DatabaseHandler.java.

#### 6.6.3.4 getLastID()

```
int com.example.softwareengineering.DatabaseHandler.getLastID ( )
```

Definition at line 91 of file DatabaseHandler.java.

#### 6.6.3.5 onCreate()

```
void com.example.softwareengineering.DatabaseHandler.onCreate (
    SQLiteDatabase db )
```

Definition at line 43 of file DatabaseHandler.java.

#### 6.6.3.6 onUpgrade()

```
void com.example.softwareengineering.DatabaseHandler.onUpgrade (
    SQLiteDatabase db,
    int oldVersion,
    int newVersion )
```

Definition at line 50 of file DatabaseHandler.java.

#### 6.6.3.7 toggleAlarm()

```
void com.example.softwareengineering.DatabaseHandler.toggleAlarm (
    ToDo todo )
```

Definition at line 160 of file DatabaseHandler.java.

#### 6.6.3.8 updateToDo()

```
boolean com.example.softwareengineering.DatabaseHandler.updateToDo (
    ToDo todo )
```

Definition at line 137 of file DatabaseHandler.java.

### 6.6.4 Member Data Documentation



#### 6.6.4.1 COL\_DATE

```
final String com.example.softwareengineering.DatabaseHandler.COL_DATE = "date" [static], [private]
```

Definition at line 28 of file DatabaseHandler.java.

#### 6.6.4.2 COL\_DETAILS

```
final String com.example.softwareengineering.DatabaseHandler.COL_DETAILS = "details" [static],  
[private]
```

Definition at line 27 of file DatabaseHandler.java.

#### 6.6.4.3 COL\_ID

```
final String com.example.softwareengineering.DatabaseHandler.COL_ID = "id" [static], [private]
```

Definition at line 25 of file DatabaseHandler.java.

#### 6.6.4.4 COL\_NOTIFICATION\_STATE

```
final String com.example.softwareengineering.DatabaseHandler.COL_NOTIFICATION_STATE = "notification←'  
_state" [static], [private]
```

Definition at line 30 of file DatabaseHandler.java.

#### 6.6.4.5 COL\_TIME

```
final String com.example.softwareengineering.DatabaseHandler.COL_TIME = "time" [static], [private]
```

Definition at line 29 of file DatabaseHandler.java.

#### 6.6.4.6 COL\_TITLE

```
final String com.example.softwareengineering.DatabaseHandler.COL_TITLE = "title" [static],  
[private]
```

Definition at line 26 of file DatabaseHandler.java.

#### 6.6.4.7 DB\_NAME

```
final String com.example.softwareengineering.DatabaseHandler.DB_NAME = "ToDoDB.db" [static],  
[private]
```

Definition at line 21 of file DatabaseHandler.java.

#### 6.6.4.8 DB\_VERSION

```
final int com.example.softwareengineering.DatabaseHandler.DB_VERSION = 1 [static], [private]
```

Definition at line 20 of file DatabaseHandler.java.

#### 6.6.4.9 QUERY\_CREATE\_TABLE

```
final String com.example.softwareengineering.DatabaseHandler.QUERY_CREATE_TABLE [static],  
[private]
```

##### Initial value:

```
= "CREATE TABLE "+TABLE_NAME+" (" +COL_ID+" INTEGER PRIMARY KEY AUTOINCREMENT," +  
    COL_TITLE+" text," +COL_DETAILS+" text," +  
    COL_DATE+" text," +COL_TIME+" text," +  
    COL_NOTIFICATION_STATE+" INTEGER"+");"
```

Definition at line 32 of file DatabaseHandler.java.

#### 6.6.4.10 TABLE\_NAME

```
final String com.example.softwareengineering.DatabaseHandler.TABLE_NAME = "ToDo" [static],  
[private]
```

Definition at line 22 of file DatabaseHandler.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[DatabaseHandler.java](#)

## 6.7 com.example.softwareengineering.DividerItemDecoration Class Reference

Inheritance diagram for com.example.softwareengineering.DividerItemDecoration:

Collaboration diagram for com.example.softwareengineering.DividerItemDecoration:

## Public Member Functions

- [DividerItemDecoration](#) (Context context, int orientation)
- void [setOrientation](#) (int orientation)
- void [onDrawOver](#) (Canvas c, RecyclerView parent, RecyclerView.State state)
- void [drawVertical](#) (Canvas c, RecyclerView parent)
- void [drawHorizontal](#) (Canvas c, RecyclerView parent)
- void [getItemOffsets](#) (Rect outRect, View view, RecyclerView parent, RecyclerView.State state)

## Static Public Attributes

- static final int [HORIZONTAL\\_LIST](#) = LinearLayoutManager.HORIZONTAL
- static final int [VERTICAL\\_LIST](#) = LinearLayoutManager.VERTICAL

## Private Attributes

- Drawable [mDivider](#)
- int [mOrientation](#)

## Static Private Attributes

- static final int [ ] [ATTRS](#)

### 6.7.1 Detailed Description

Created by Lincoln on 30/10/15.

Definition at line 19 of file DividerItemDecoration.java.

### 6.7.2 Constructor & Destructor Documentation

#### 6.7.2.1 DividerItemDecoration()

```
com.example.softwareengineering.DividerItemDecoration.DividerItemDecoration (
    Context context,
    int orientation )
```

Definition at line 33 of file DividerItemDecoration.java.

### 6.7.3 Member Function Documentation

#### 6.7.3.1 drawHorizontal()

```
void com.example.softwareengineering.DividerItemDecoration.drawHorizontal (
    Canvas c,
    RecyclerView parent )
```

Definition at line 72 of file `DividerItemDecoration.java`.

#### 6.7.3.2 drawVertical()

```
void com.example.softwareengineering.DividerItemDecoration.drawVertical (
    Canvas c,
    RecyclerView parent )
```

Definition at line 56 of file `DividerItemDecoration.java`.

#### 6.7.3.3 getItemOffsets()

```
void com.example.softwareengineering.DividerItemDecoration.getItemOffsets (
    Rect outRect,
    View view,
    RecyclerView parent,
    RecyclerView.State state )
```

Definition at line 89 of file `DividerItemDecoration.java`.

#### 6.7.3.4 onDrawOver()

```
void com.example.softwareengineering.DividerItemDecoration.onDrawOver (
    Canvas c,
    RecyclerView parent,
    RecyclerView.State state )
```

Definition at line 48 of file `DividerItemDecoration.java`.

#### 6.7.3.5 setOrientation()

```
void com.example.softwareengineering.DividerItemDecoration.setOrientation (
    int orientation )
```

Definition at line 40 of file `DividerItemDecoration.java`.

## 6.7.4 Member Data Documentation

### 6.7.4.1 ATTRS

```
final int [ ] com.example.softwareengineering.DividerItemDecoration.ATTRS [static], [private]
```

**Initial value:**

```
= new int[]{  
    android.R.attr.listDivider  
}
```

Definition at line 21 of file DividerItemDecoration.java.

### 6.7.4.2 HORIZONTAL\_LIST

```
final int com.example.softwareengineering.DividerItemDecoration.HORIZONTAL_LIST = Linear<'  
LayoutManager.HORIZONTAL [static]
```

Definition at line 25 of file DividerItemDecoration.java.

### 6.7.4.3 mDivider

```
Drawable com.example.softwareengineering.DividerItemDecoration.mDivider [private]
```

Definition at line 29 of file DividerItemDecoration.java.

### 6.7.4.4 mOrientation

```
int com.example.softwareengineering.DividerItemDecoration.mOrientation [private]
```

Definition at line 31 of file DividerItemDecoration.java.

### 6.7.4.5 VERTICAL\_LIST

```
final int com.example.softwareengineering.DividerItemDecoration.VERTICAL_LIST = LinearLayout<'  
Manager.VERTICAL [static]
```

Definition at line 27 of file DividerItemDecoration.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[DividerItemDecoration.java](#)

## 6.8 com.example.softwareengineering.HeartBeatView Class Reference

Inheritance diagram for com.example.softwareengineering.HeartBeatView:

Collaboration diagram for com.example.softwareengineering.HeartBeatView:

### Public Member Functions

- [HeartBeatView](#) (Context context, AttributeSet attr)
- [HeartBeatView](#) (Context context)

### Protected Member Functions

- void [onMeasure](#) (int widthMeasureSpec, int heightMeasureSpec)
- void [onDraw](#) (Canvas canvas)

### Static Private Attributes

- static final Matrix [matrix](#) = new Matrix()
- static final Paint [paint](#) = new Paint(Paint.ANTI\_ALIAS\_FLAG)
- static Bitmap [greenBitmap](#) = null
- static Bitmap [redBitmap](#) = null
- static int [parentWidth](#) = 0
- static int [parentHeight](#) = 0

### 6.8.1 Detailed Description

Created by HIMABINDU on 12/2/2017.

Definition at line 18 of file HeartBeatView.java.

### 6.8.2 Constructor & Destructor Documentation

#### 6.8.2.1 HeartBeatView() [1/2]

```
com.example.softwareengineering.HeartBeatView.HeartBeatView (  
    Context context,  
    AttributeSet attr )
```

Definition at line 30 of file HeartBeatView.java.

### 6.8.2.2 HeartBeatView() [ 2/2 ]

```
com.example.softwareengineering.HeartBeatView.HeartBeatView (  
    Context context )
```

Definition at line 37 of file HeartBeatView.java.

## 6.8.3 Member Function Documentation

### 6.8.3.1 onDraw()

```
void com.example.softwareengineering.HeartBeatView.onDraw (  
    Canvas canvas ) [protected]
```

Definition at line 60 of file HeartBeatView.java.

### 6.8.3.2 onMeasure()

```
void com.example.softwareengineering.HeartBeatView.onMeasure (  
    int widthMeasureSpec,  
    int heightMeasureSpec ) [protected]
```

Definition at line 48 of file HeartBeatView.java.

## 6.8.4 Member Data Documentation

### 6.8.4.1 greenBitmap

```
Bitmap com.example.softwareengineering.HeartBeatView.greenBitmap = null [static], [private]
```

Definition at line 22 of file HeartBeatView.java.

### 6.8.4.2 matrix

```
final Matrix com.example.softwareengineering.HeartBeatView.matrix = new Matrix() [static],  
[private]
```

Definition at line 19 of file HeartBeatView.java.

#### 6.8.4.3 paint

```
final Paint com.example.softwareengineering.HeartBeatView.paint = new Paint(Paint.ANTI_ALIAS←'  
_FLAG) [static], [private]
```

Definition at line 20 of file HeartBeatView.java.

#### 6.8.4.4 parentHeight

```
int com.example.softwareengineering.HeartBeatView.parentHeight = 0 [static], [private]
```

Definition at line 26 of file HeartBeatView.java.

#### 6.8.4.5 parentWidth

```
int com.example.softwareengineering.HeartBeatView.parentWidth = 0 [static], [private]
```

Definition at line 25 of file HeartBeatView.java.

#### 6.8.4.6 redBitmap

```
Bitmap com.example.softwareengineering.HeartBeatView.redBitmap = null [static], [private]
```

Definition at line 23 of file HeartBeatView.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[HeartBeatView.java](#)

## 6.9 com.example.softwareengineering.HeartBeatView2 Class Reference

Inheritance diagram for com.example.softwareengineering.HeartBeatView2:

Collaboration diagram for com.example.softwareengineering.HeartBeatView2:

### Public Member Functions

- [HeartBeatView2](#) (Context context, AttributeSet attr)
- [HeartBeatView2](#) (Context context)



### Protected Member Functions

- void [onMeasure](#) (int widthMeasureSpec, int heightMeasureSpec)
- void [onDraw](#) (Canvas canvas)

### Static Private Attributes

- static final Matrix [matrix](#) = new Matrix()
- static final Paint [paint](#) = new Paint(Paint.ANTI\_ALIAS\_FLAG)
- static Bitmap [greenBitmap](#) = null
- static Bitmap [redBitmap](#) = null
- static int [parentWidth](#) = 0
- static int [parentHeight](#) = 0

### 6.9.1 Detailed Description

Created by HIMABINDU on 12/2/2017.

Definition at line 18 of file HeartBeatView2.java.

### 6.9.2 Constructor & Destructor Documentation

#### 6.9.2.1 HeartBeatView2() [ 1 / 2 ]

```
com.example.softwareengineering.HeartBeatView2.HeartBeatView2 (
    Context context,
    AttributeSet attr )
```

Definition at line 30 of file HeartBeatView2.java.

#### 6.9.2.2 HeartBeatView2() [ 2 / 2 ]

```
com.example.softwareengineering.HeartBeatView2.HeartBeatView2 (
    Context context )
```

Definition at line 37 of file HeartBeatView2.java.

### 6.9.3 Member Function Documentation

#### 6.9.3.1 onDraw()

```
void com.example.softwareengineering.HeartBeatView2.onDraw (  
    Canvas canvas ) [protected]
```

Definition at line 60 of file HeartBeatView2.java.

#### 6.9.3.2 onMeasure()

```
void com.example.softwareengineering.HeartBeatView2.onMeasure (  
    int widthMeasureSpec,  
    int heightMeasureSpec ) [protected]
```

Definition at line 48 of file HeartBeatView2.java.

### 6.9.4 Member Data Documentation

#### 6.9.4.1 greenBitmap

```
Bitmap com.example.softwareengineering.HeartBeatView2.greenBitmap = null [static], [private]
```

Definition at line 22 of file HeartBeatView2.java.

#### 6.9.4.2 matrix

```
final Matrix com.example.softwareengineering.HeartBeatView2.matrix = new Matrix() [static],  
[private]
```

Definition at line 19 of file HeartBeatView2.java.

#### 6.9.4.3 paint

```
final Paint com.example.softwareengineering.HeartBeatView2.paint = new Paint(Paint.ANTI_ALIASING  
S_FLAG) [static], [private]
```

Definition at line 20 of file HeartBeatView2.java.

## 6.9.4.4 parentHeight

```
int com.example.softwareengineering.HeartBeatView2.parentHeight = 0 [static], [private]
```

Definition at line 26 of file HeartBeatView2.java.

## 6.9.4.5 parentWidth

```
int com.example.softwareengineering.HeartBeatView2.parentWidth = 0 [static], [private]
```

Definition at line 25 of file HeartBeatView2.java.

## 6.9.4.6 redBitmap

```
Bitmap com.example.softwareengineering.HeartBeatView2.redBitmap = null [static], [private]
```

Definition at line 23 of file HeartBeatView2.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[HeartBeatView2.java](#)

## 6.10 com.example.softwareengineering.HeartRateMonitor Class Reference

Inheritance diagram for com.example.softwareengineering.HeartRateMonitor:

Collaboration diagram for com.example.softwareengineering.HeartRateMonitor:

### Classes

- enum [TYPE](#)

### Public Member Functions

- void [onCreate](#) (Bundle savedInstanceState)
- void [onConfigurationChanged](#) (Configuration newConfig)
- void [onResume](#) ()
- void [onPause](#) ()

### Static Public Member Functions

- static [TYPE](#) [getCurrent](#) ()
- static String [EncodeString](#) (String string)

### Static Public Attributes

- static int [beatsAvg](#)

### Package Attributes

- FirebaseAuth [auth](#)

### Static Package Attributes

- static FirebaseUser [user](#)
- static DatabaseReference [databaseReference](#)
- static String [email](#)

### Static Private Member Functions

- static Camera.Size [getSmallestPreviewSize](#) (int width, int height, Camera.Parameters parameters)

### Static Private Attributes

- static final String [TAG](#) = "HeartRateMonitor"
- static final AtomicBoolean [processing](#) = new AtomicBoolean(false)
- static SurfaceView [preview](#) = null
- static SurfaceHolder [previewHolder](#) = null
- static Camera [camera](#) = null
- static View [image](#) = null
- static TextView [text](#) = null
- static WakeLock [wakeLock](#) = null
- static int [averageIndex](#) = 0
- static final int [averageArraySize](#) = 4
- static final int [ ] [averageArray](#) = new int[[averageArraySize](#)]
- static TYPE [currentType](#) = TYPE.GREEN
- static int [beatsIndex](#) = 0
- static final int [beatsArraySize](#) = 3
- static final int [ ] [beatsArray](#) = new int[[beatsArraySize](#)]
- static double [beats](#) = 0
- static long [startTime](#) = 0
- static PreviewCallback [previewCallback](#)
- static SurfaceHolder.Callback [surfaceCallback](#)

### 6.10.1 Detailed Description

This class extends Activity to handle a picture preview, process the preview for a red values and determine a heart beat.

#### Author

Justin Wetherell [phishman3579@gmail.com](mailto:phishman3579@gmail.com)

Definition at line 39 of file HeartRateMonitor.java.

## 6.10.2 Member Function Documentation

### 6.10.2.1 EncodeString()

```
static String com.example.softwareengineering.HeartRateMonitor.EncodeString (
    String string ) [static]
```

Definition at line 113 of file HeartRateMonitor.java.

### 6.10.2.2 getCurrent()

```
static TYPE com.example.softwareengineering.HeartRateMonitor.getCurrent ( ) [static]
```

Definition at line 73 of file HeartRateMonitor.java.

### 6.10.2.3 getSmallestPreviewSize()

```
static Camera.Size com.example.softwareengineering.HeartRateMonitor.getSmallestPreviewSize (
    int width,
    int height,
    Camera.Parameters parameters ) [static], [private]
```

Definition at line 294 of file HeartRateMonitor.java.

### 6.10.2.4 onConfigurationChanged()

```
void com.example.softwareengineering.HeartRateMonitor.onConfigurationChanged (
    Configuration newConfig )
```

Definition at line 121 of file HeartRateMonitor.java.

### 6.10.2.5 onCreate()

```
void com.example.softwareengineering.HeartRateMonitor.onCreate (
    Bundle savedInstanceState )
```

Definition at line 87 of file HeartRateMonitor.java.

#### 6.10.2.6 onPause()

```
void com.example.softwareengineering.HeartRateMonitor.onPause ( )
```

Definition at line 143 of file HeartRateMonitor.java.

#### 6.10.2.7 onResume()

```
void com.example.softwareengineering.HeartRateMonitor.onResume ( )
```

Definition at line 129 of file HeartRateMonitor.java.

### 6.10.3 Member Data Documentation

#### 6.10.3.1 auth

```
FirebaseAuth com.example.softwareengineering.HeartRateMonitor.auth [package]
```

Definition at line 41 of file HeartRateMonitor.java.

#### 6.10.3.2 averageArray

```
final int [ ] com.example.softwareengineering.HeartRateMonitor.averageArray = new int[average←'  
ArraySize] [static], [private]
```

Definition at line 63 of file HeartRateMonitor.java.

#### 6.10.3.3 averageArraySize

```
final int com.example.softwareengineering.HeartRateMonitor.averageArraySize = 4 [static],  
[private]
```

Definition at line 62 of file HeartRateMonitor.java.

## 6.10.3.4 averageIndex

```
int com.example.softwareengineering.HeartRateMonitor.averageIndex = 0 [static], [private]
```

Definition at line 61 of file HeartRateMonitor.java.

## 6.10.3.5 beats

```
double com.example.softwareengineering.HeartRateMonitor.beats = 0 [static], [private]
```

Definition at line 80 of file HeartRateMonitor.java.

## 6.10.3.6 beatsArray

```
final int [ ] com.example.softwareengineering.HeartRateMonitor.beatsArray = new int[beats←'  
ArraySize] [static], [private]
```

Definition at line 79 of file HeartRateMonitor.java.

## 6.10.3.7 beatsArraySize

```
final int com.example.softwareengineering.HeartRateMonitor.beatsArraySize = 3 [static], [private]
```

Definition at line 78 of file HeartRateMonitor.java.

## 6.10.3.8 beatsAvg

```
int com.example.softwareengineering.HeartRateMonitor.beatsAvg [static]
```

Definition at line 48 of file HeartRateMonitor.java.

## 6.10.3.9 beatsIndex

```
int com.example.softwareengineering.HeartRateMonitor.beatsIndex = 0 [static], [private]
```

Definition at line 77 of file HeartRateMonitor.java.

#### 6.10.3.10 camera

```
Camera com.example.softwareengineering.HeartRateMonitor.camera = null [static], [private]
```

Definition at line 55 of file HeartRateMonitor.java.

#### 6.10.3.11 currentType

```
TYPE com.example.softwareengineering.HeartRateMonitor.currentType = TYPE.GREEN [static],  
[private]
```

Definition at line 71 of file HeartRateMonitor.java.

#### 6.10.3.12 databaseReference

```
DatabaseReference com.example.softwareengineering.HeartRateMonitor.databaseReference [static],  
[package]
```

Definition at line 43 of file HeartRateMonitor.java.

#### 6.10.3.13 email

```
String com.example.softwareengineering.HeartRateMonitor.email [static], [package]
```

Definition at line 47 of file HeartRateMonitor.java.

#### 6.10.3.14 image

```
View com.example.softwareengineering.HeartRateMonitor.image = null [static], [private]
```

Definition at line 56 of file HeartRateMonitor.java.

#### 6.10.3.15 preview

```
SurfaceView com.example.softwareengineering.HeartRateMonitor.preview = null [static], [private]
```

Definition at line 53 of file HeartRateMonitor.java.



## 6.10.3.16 previewCallback

```
PreviewCallback com.example.softwareengineering.HeartRateMonitor.previewCallback [static],  
[private]
```

Definition at line 154 of file HeartRateMonitor.java.

## 6.10.3.17 previewHolder

```
SurfaceHolder com.example.softwareengineering.HeartRateMonitor.previewHolder = null [static],  
[private]
```

Definition at line 54 of file HeartRateMonitor.java.

## 6.10.3.18 processing

```
final AtomicBoolean com.example.softwareengineering.HeartRateMonitor.processing = new Atomic<'  
Boolean(false) [static], [private]
```

Definition at line 51 of file HeartRateMonitor.java.

## 6.10.3.19 startTime

```
long com.example.softwareengineering.HeartRateMonitor.startTime = 0 [static], [private]
```

Definition at line 81 of file HeartRateMonitor.java.

## 6.10.3.20 surfaceCallback

```
SurfaceHolder.Callback com.example.softwareengineering.HeartRateMonitor.surfaceCallback [static],  
[private]
```

Definition at line 254 of file HeartRateMonitor.java.

## 6.10.3.21 TAG

```
final String com.example.softwareengineering.HeartRateMonitor.TAG = "HeartRateMonitor" [static],  
[private]
```

Definition at line 50 of file HeartRateMonitor.java.

#### 6.10.3.22 text

```
TextView com.example.softwareengineering.HeartRateMonitor.text = null [static], [private]
```

Definition at line 57 of file HeartRateMonitor.java.

#### 6.10.3.23 user

```
FirebaseUser com.example.softwareengineering.HeartRateMonitor.user [static], [package]
```

Definition at line 42 of file HeartRateMonitor.java.

#### 6.10.3.24 wakeLock

```
WakeLock com.example.softwareengineering.HeartRateMonitor.wakeLock = null [static], [private]
```

Definition at line 59 of file HeartRateMonitor.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[HeartRateMonitor.java](#)

## 6.11 com.example.softwareengineering.ImageProcessing Class Reference

### Static Public Member Functions

- static int [decodeYUV420SPtoRedAvg](#) (byte[ ] yuv420sp, int width, int height)

### Static Private Member Functions

- static int [decodeYUV420SPtoRedSum](#) (byte[ ] yuv420sp, int width, int height)

### 6.11.1 Detailed Description

This abstract class is used to process images.

Author

Justin Wetherell [phishman3579@gmail.com](mailto:phishman3579@gmail.com)

Definition at line 8 of file ImageProcessing.java.

### 6.11.2 Member Function Documentation

#### 6.11.2.1 decodeYUV420SPtoRedAvg()

```
static int com.example.softwareengineering.ImageProcessing.decodeYUV420SPtoRedAvg (  
    byte [ ] yuv420sp,  
    int width,  
    int height ) [static]
```

Given a byte array representing a yuv420sp image, determine the average amount of red in the image. Note: returns 0 if the byte array is NULL.

## Parameters

<i>yuv420sp</i>	Byte array representing a yuv420sp image
<i>width</i>	Width of the image.
<i>height</i>	Height of the image.

## Returns

int representing the average amount of red in the image.

Definition at line 57 of file ImageProcessing.java.

## 6.11.2.2 decodeYUV420SPtoRedSum()

```
static int com.example.softwareengineering.ImageProcessing.decodeYUV420SPtoRedSum (  
    byte [] yuv420sp,  
    int width,  
    int height ) [static], [private]
```

Definition at line 10 of file ImageProcessing.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[ImageProcessing.java](#)

## 6.12 com.example.softwareengineering.MainActivity Class Reference

Inheritance diagram for com.example.softwareengineering.MainActivity:

Collaboration diagram for com.example.softwareengineering.MainActivity:

## Public Member Functions

- void [onBackPressed](#) ()

## Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)

## Package Attributes

- Button [LoginButton](#)
- Button [RegisterButton](#)
- EditText [inputEmail](#)
- EditText [inputPassword](#)

## Private Attributes

- FirebaseAuth [auth](#)
- boolean [\\_doubleBackToExitPressedOnce](#) = false

### 6.12.1 Detailed Description

Definition at line 21 of file MainActivity.java.

### 6.12.2 Member Function Documentation

#### 6.12.2.1 onBackPressed()

```
void com.example.softwareengineering.MainActivity.onBackPressed ( )
```

Definition at line 102 of file MainActivity.java.

#### 6.12.2.2 onCreate()

```
void com.example.softwareengineering.MainActivity.onCreate (
    Bundle savedInstanceState ) [protected]
```

Definition at line 29 of file MainActivity.java.

### 6.12.3 Member Data Documentation

#### 6.12.3.1 \_doubleBackToExitPressedOnce

```
boolean com.example.softwareengineering.MainActivity._doubleBackToExitPressedOnce = false
[private]
```

Definition at line 27 of file MainActivity.java.

#### 6.12.3.2 auth

```
FirebaseAuth com.example.softwareengineering.MainActivity.auth [private]
```

Definition at line 25 of file MainActivity.java.

#### 6.12.3.3 inputEmail

`EditText com.example.softwareengineering.MainActivity.inputEmail [package]`

Definition at line 24 of file MainActivity.java.

#### 6.12.3.4 inputPassword

`EditText com.example.softwareengineering.MainActivity.inputPassword [package]`

Definition at line 24 of file MainActivity.java.

#### 6.12.3.5 LoginButton

`Button com.example.softwareengineering.MainActivity.LoginButton [package]`

Definition at line 23 of file MainActivity.java.

#### 6.12.3.6 RegisterButton

`Button com.example.softwareengineering.MainActivity.RegisterButton [package]`

Definition at line 23 of file MainActivity.java.

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

- [C:/Users/aymoo/Desktop/RU Healthy Documentatio/MainActivity.java](#)

## 6.13 com.example.softwareengineering.ToDoAdapter.MyViewHolder Class Reference

Inheritance diagram for com.example.softwareengineering.ToDoAdapter.MyViewHolder:

Collaboration diagram for com.example.softwareengineering.ToDoAdapter.MyViewHolder:

### Public Member Functions

- [MyViewHolder](#) (final View itemView)

## Package Attributes

- TextView [details](#)
- TextView [date](#)
- TextView [time](#)
- Button [editItemButton](#)

## Private Attributes

- TextView [title](#)
- Button [deleteItemButton](#)
- ImageButton [alarmButton](#)
- int [id](#)
- View [container](#)

### 6.13.1 Detailed Description

Definition at line 34 of file `ToDoAdapter.java`.

### 6.13.2 Constructor & Destructor Documentation

#### 6.13.2.1 MyViewHolder()

```
com.example.softwareengineering.ToDoAdapter.MyViewHolder.MyViewHolder (  
    final View itemView )
```

Definition at line 45 of file `ToDoAdapter.java`.

### 6.13.3 Member Data Documentation

#### 6.13.3.1 alarmButton

```
ImageButton com.example.softwareengineering.ToDoAdapter.MyViewHolder.alarmButton [private]
```

Definition at line 38 of file `ToDoAdapter.java`.

## 6.13.3.2 container

```
View com.example.softwareengineering.ToDoAdapter.MyViewHolder.container [private]
```

Definition at line 40 of file ToDoAdapter.java.

## 6.13.3.3 date

```
TextView com.example.softwareengineering.ToDoAdapter.MyViewHolder.date [package]
```

Definition at line 36 of file ToDoAdapter.java.

## 6.13.3.4 deleteItemButton

```
Button com.example.softwareengineering.ToDoAdapter.MyViewHolder.deleteItemButton [private]
```

Definition at line 37 of file ToDoAdapter.java.

## 6.13.3.5 details

```
TextView com.example.softwareengineering.ToDoAdapter.MyViewHolder.details [package]
```

Definition at line 36 of file ToDoAdapter.java.

## 6.13.3.6 editItemButton

```
Button com.example.softwareengineering.ToDoAdapter.MyViewHolder.editItemButton [package]
```

Definition at line 37 of file ToDoAdapter.java.

## 6.13.3.7 id

```
int com.example.softwareengineering.ToDoAdapter.MyViewHolder.id [private]
```

Definition at line 39 of file ToDoAdapter.java.

## 6.13.3.8 time

```
TextView com.example.softwareengineering.ToDoAdapter.MyViewHolder.time [package]
```

Definition at line 36 of file ToDoAdapter.java.

## 6.13.3.9 title

```
TextView com.example.softwareengineering.ToDoAdapter.MyViewHolder.title [private]
```

Definition at line 36 of file ToDoAdapter.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[ToDoAdapter.java](#)

## 6.14 com.example.softwareengineering.NewToDo Class Reference

Inheritance diagram for com.example.softwareengineering.NewToDo:

Collaboration diagram for com.example.softwareengineering.NewToDo:

## Public Member Functions

- void [hideKeyboard](#) (View view)
- void [showTimePickerDialog](#) (View view)
- void [showDatePickerDialog](#) (View view)
- void [saveToDo](#) (View view)

## Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)

## Package Attributes

- int [MIN](#)
- int [DAY](#)
- int [MONTH](#)
- int [YEAR](#)
- Calendar [current](#)
- TextView [timeTV](#)
- EditText [detailsET](#)
- [DatabaseHandler](#) db
- boolean [editToDo](#) =false
- int [ID\\_TABLE](#)
- int [id\\_max](#)
- int [time\\_offset](#)



### Private Member Functions

- void [setAlarm](#) (Calendar targetCal)

### Private Attributes

- int [HOUR](#)
- String [AMorPM](#)
- Calendar [cal](#)
- TextView [dateTV](#)
- EditText [titleET](#)
- Button [saveORupdate](#)
- Switch [notification\\_switch](#)
- int [notification\\_state](#)
- TimePickerDialog.OnTimeSetListener [timeSetListener](#)
- DatePickerDialog.OnDateSetListener [dateSetListener](#)

#### 6.14.1 Detailed Description

Definition at line 34 of file NewToDo.java.

#### 6.14.2 Member Function Documentation

##### 6.14.2.1 hideKeyboard()

```
void com.example.softwareengineering.NewToDo.hideKeyboard (  
    View view )
```

Definition at line 109 of file NewToDo.java.

##### 6.14.2.2 onCreate()

```
void com.example.softwareengineering.NewToDo.onCreate (  
    Bundle savedInstanceState ) [protected]
```

Definition at line 49 of file NewToDo.java.

##### 6.14.2.3 saveToDo()

```
void com.example.softwareengineering.NewToDo.saveToDo (  
    View view )
```

Definition at line 180 of file NewToDo.java.

#### 6.14.2.4 setAlarm()

```
void com.example.softwareengineering.NewToDo.setAlarm (
    Calendar targetCal ) [private]
```

Definition at line 318 of file NewToDo.java.

#### 6.14.2.5 showDatePickerDialog()

```
void com.example.softwareengineering.NewToDo.showDatePickerDialog (
    View view )
```

Definition at line 162 of file NewToDo.java.

#### 6.14.2.6 showTimePickerDialog()

```
void com.example.softwareengineering.NewToDo.showTimePickerDialog (
    View view )
```

Definition at line 114 of file NewToDo.java.

### 6.14.3 Member Data Documentation

#### 6.14.3.1 AMorPM

```
String com.example.softwareengineering.NewToDo.AMorPM [private]
```

Definition at line 36 of file NewToDo.java.

#### 6.14.3.2 cal

```
Calendar com.example.softwareengineering.NewToDo.cal [private]
```

Definition at line 37 of file NewToDo.java.

## 6.14.3.3 current

Calendar com.example.softwareengineering.NewToDo.current [package]

Definition at line 37 of file NewToDo.java.

## 6.14.3.4 dateSetListener

DatePickerDialog.OnDateSetListener com.example.softwareengineering.NewToDo.dateSetListener  
[private]

**Initial value:**

```
=new DatePickerDialog.OnDateSetListener() {  
    @Override  
    public void onDateSet(DatePicker view, int year, int month, int dayOfMonth) {  
  
        YEAR=year;  
        MONTH=month+1;  
        DAY=dayOfMonth;  
  
        dateTV.setText(DAY+ "/" +MONTH+"/"+YEAR);  
    }  
}
```

Definition at line 167 of file NewToDo.java.

## 6.14.3.5 dateTV

TextView com.example.softwareengineering.NewToDo.dateTV [private]

Definition at line 38 of file NewToDo.java.

## 6.14.3.6 DAY

int com.example.softwareengineering.NewToDo.DAY [package]

Definition at line 35 of file NewToDo.java.

## 6.14.3.7 db

DatabaseHandler com.example.softwareengineering.NewToDo.db [package]

Definition at line 43 of file NewToDo.java.

#### 6.14.3.8 detailsET

`EditText com.example.softwareengineering.NewToDo.detailsET [package]`

Definition at line 39 of file NewToDo.java.

#### 6.14.3.9 editToDo

`boolean com.example.softwareengineering.NewToDo.editToDo =false [package]`

Definition at line 44 of file NewToDo.java.

#### 6.14.3.10 HOUR

`int com.example.softwareengineering.NewToDo.HOUR [private]`

Definition at line 35 of file NewToDo.java.

#### 6.14.3.11 id\_max

`int com.example.softwareengineering.NewToDo.id_max [package]`

Definition at line 45 of file NewToDo.java.

#### 6.14.3.12 ID\_TABLE

`int com.example.softwareengineering.NewToDo.ID_TABLE [package]`

Definition at line 45 of file NewToDo.java.

#### 6.14.3.13 MIN

`int com.example.softwareengineering.NewToDo.MIN [package]`

Definition at line 35 of file NewToDo.java.

## 6.14.3.14 MONTH

```
int com.example.softwareengineering.NewToDo.MONTH [package]
```

Definition at line 35 of file NewToDo.java.

## 6.14.3.15 notification\_state

```
int com.example.softwareengineering.NewToDo.notification_state [private]
```

Definition at line 42 of file NewToDo.java.

## 6.14.3.16 notification\_switch

```
Switch com.example.softwareengineering.NewToDo.notification_switch [private]
```

Definition at line 41 of file NewToDo.java.

## 6.14.3.17 saveORupdate

```
Button com.example.softwareengineering.NewToDo.saveORupdate [private]
```

Definition at line 40 of file NewToDo.java.

## 6.14.3.18 time\_offset

```
int com.example.softwareengineering.NewToDo.time_offset [package]
```

Definition at line 45 of file NewToDo.java.

## 6.14.3.19 timeSetListener

```
TimePickerDialog.OnTimeSetListener com.example.softwareengineering.NewToDo.timeSetListener  
[private]
```

Definition at line 120 of file NewToDo.java.

#### 6.14.3.20 timeTV

`TextView com.example.softwareengineering.NewToDo.timeTV [package]`

Definition at line 38 of file NewToDo.java.

#### 6.14.3.21 titleET

`EditText com.example.softwareengineering.NewToDo.titleET [private]`

Definition at line 39 of file NewToDo.java.

#### 6.14.3.22 YEAR

`int com.example.softwareengineering.NewToDo.YEAR [package]`

Definition at line 35 of file NewToDo.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[NewToDo.java](#)

## 6.15 com.example.softwareengineering.RecyclerItemClickListener.OnItemClickListener Interface Reference

### Public Member Functions

- void [onItemClick](#) (View view, int position)
- void [onLongItemClick](#) (View view, int position)

#### 6.15.1 Detailed Description

Definition at line 17 of file RecyclerItemClickListener.java.

#### 6.15.2 Member Function Documentation

## 6.15.2.1 onItemClick()

```
void com.example.softwareengineering.RecyclerItemClickListener.OnItemClickListener.onItemClick
(
    View view,
    int position )
```

## 6.15.2.2 onLongItemClick()

```
void com.example.softwareengineering.RecyclerItemClickListener.OnItemClickListener.onLongItemClick
(
    View view,
    int position )
```

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[RecyclerItemClickListener.java](#)

## 6.16 com.example.softwareengineering.ProfileActivity Class Reference

Inheritance diagram for com.example.softwareengineering.ProfileActivity:

Collaboration diagram for com.example.softwareengineering.ProfileActivity:

## Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)

## Package Attributes

- EditText [Age](#)
- EditText [Gender](#)
- EditText [Height](#)
- EditText [Weight](#)
- EditText [Target](#)
- EditText [inputName](#)
- EditText [heartRate](#)
- Button [Submit](#)
- String [AgeHolder](#)
- String [GenderHolder](#)
- String [HeightHolder](#)
- String [WeightHolder](#)
- String [TargetHolder](#)
- String [NameHolder](#)
- String [EmailHolder](#)
- String [heartRateHolder](#)
- FirebaseAuth [auth](#)
- FirebaseUser [user](#)
- DatabaseReference [databaseReference](#)

### 6.16.1 Detailed Description

Created by HIMABINDU on 11/29/2017.

Definition at line 21 of file ProfileActivity.java.

### 6.16.2 Member Function Documentation

#### 6.16.2.1 onCreate()

```
void com.example.softwareengineering.ProfileActivity.onCreate (  
    Bundle savedInstanceState ) [protected]
```

Definition at line 31 of file ProfileActivity.java.

### 6.16.3 Member Data Documentation

#### 6.16.3.1 Age

```
EditText com.example.softwareengineering.ProfileActivity.Age [package]
```

Definition at line 23 of file ProfileActivity.java.

#### 6.16.3.2 AgeHolder

```
String com.example.softwareengineering.ProfileActivity.AgeHolder [package]
```

Definition at line 25 of file ProfileActivity.java.

#### 6.16.3.3 auth

```
FirebaseAuth com.example.softwareengineering.ProfileActivity.auth [package]
```

Definition at line 26 of file ProfileActivity.java.



## 6.16.3.4 databaseReference

DatabaseReference com.example.softwareengineering.ProfileActivity.databaseReference [package]

Definition at line 28 of file ProfileActivity.java.

## 6.16.3.5 EmailHolder

String com.example.softwareengineering.ProfileActivity.EmailHolder [package]

Definition at line 25 of file ProfileActivity.java.

## 6.16.3.6 Gender

EditText com.example.softwareengineering.ProfileActivity.Gender [package]

Definition at line 23 of file ProfileActivity.java.

## 6.16.3.7 GenderHolder

String com.example.softwareengineering.ProfileActivity.GenderHolder [package]

Definition at line 25 of file ProfileActivity.java.

## 6.16.3.8 heartRate

EditText com.example.softwareengineering.ProfileActivity.heartRate [package]

Definition at line 23 of file ProfileActivity.java.

## 6.16.3.9 heartRateHolder

String com.example.softwareengineering.ProfileActivity.heartRateHolder [package]

Definition at line 25 of file ProfileActivity.java.

#### 6.16.3.10 Height

`EditText com.example.softwareengineering.ProfileActivity.Height [package]`

Definition at line 23 of file ProfileActivity.java.

#### 6.16.3.11 HeightHolder

`String com.example.softwareengineering.ProfileActivity.HeightHolder [package]`

Definition at line 25 of file ProfileActivity.java.

#### 6.16.3.12 inputName

`EditText com.example.softwareengineering.ProfileActivity.inputName [package]`

Definition at line 23 of file ProfileActivity.java.

#### 6.16.3.13 NameHolder

`String com.example.softwareengineering.ProfileActivity.NameHolder [package]`

Definition at line 25 of file ProfileActivity.java.

#### 6.16.3.14 Submit

`Button com.example.softwareengineering.ProfileActivity.Submit [package]`

Definition at line 24 of file ProfileActivity.java.

#### 6.16.3.15 Target

`EditText com.example.softwareengineering.ProfileActivity.Target [package]`

Definition at line 23 of file ProfileActivity.java.

## 6.16.3.16 TargetHolder

```
String com.example.softwareengineering.ProfileActivity.TargetHolder [package]
```

Definition at line 25 of file ProfileActivity.java.

## 6.16.3.17 user

```
FirebaseUser com.example.softwareengineering.ProfileActivity.user [package]
```

Definition at line 27 of file ProfileActivity.java.

## 6.16.3.18 Weight

```
EditText com.example.softwareengineering.ProfileActivity.Weight [package]
```

Definition at line 23 of file ProfileActivity.java.

## 6.16.3.19 WeightHolder

```
String com.example.softwareengineering.ProfileActivity.WeightHolder [package]
```

Definition at line 25 of file ProfileActivity.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[ProfileActivity.java](#)

## 6.17 com.example.softwareengineering.RecoveryRate Class Reference

Inheritance diagram for com.example.softwareengineering.RecoveryRate:

Collaboration diagram for com.example.softwareengineering.RecoveryRate:

### Classes

- enum [TYPE](#)

### Public Member Functions

- void [onCreate](#) (Bundle savedInstanceState)
- void [onConfigurationChanged](#) (Configuration newConfig)
- void [onResume](#) ()
- void [onPause](#) ()

### Static Public Member Functions

- static [TYPE](#) [getCurrent](#) ()

### Static Public Attributes

- static int [initialHeartRate](#)
- static int [finalHeartRate](#)

### Package Attributes

- FirebaseAuth [auth](#)

### Static Package Attributes

- static FirebaseUser [user](#)
- static DatabaseReference [databaseReference](#)
- static DatabaseReference [dr2](#)

### Static Private Member Functions

- static Camera.Size [getSmallestPreviewSize](#) (int width, int height, Camera.Parameters parameters)

### Static Private Attributes

- static final String [TAG](#) = "RecoveryRate"
- static final AtomicBoolean [processing](#) = new AtomicBoolean(false)
- static SurfaceView [preview](#) = null
- static SurfaceHolder [previewHolder](#) = null
- static Camera [camera](#) = null
- static View [image](#) = null
- static TextView [text](#) = null
- static TextView [text1](#) = null
- static WakeLock [wakeLock](#) = null
- static int [averageIndex](#) = 0
- static final int [averageArraySize](#) = 4
- static final int [ ] [averageArray](#) = new int[[averageArraySize](#)]
- static [TYPE](#) [currentType](#) = [TYPE.GREEN](#)
- static String [heartRate](#)
- static double [recoveryRate](#)
- static double [initTime](#)
- static int [heartRateNumber](#) = 90
- static int [beatsIndex](#) = 0
- static final int [beatsArraySize](#) = 3
- static final int [ ] [beatsArray](#) = new int[[beatsArraySize](#)]
- static double [beats](#) = 0
- static long [startTime](#) = 0
- static int [flag](#) = 0
- static PreviewCallback [previewCallback](#)
- static SurfaceHolder.Callback [surfaceCallback](#)

### 6.17.1 Detailed Description

This class extends Activity to handle a picture preview, process the preview for a red values and determine a heart beat.

Author

Justin Wetherell [phishman3579@gmail.com](mailto:phishman3579@gmail.com)

Definition at line 36 of file RecoveryRate.java.

### 6.17.2 Member Function Documentation

#### 6.17.2.1 getCurrent()

```
static TYPE com.example.softwareengineering.RecoveryRate.getCurrent ( ) [static]
```

Definition at line 71 of file RecoveryRate.java.

#### 6.17.2.2 getSmallestPreviewSize()

```
static Camera.Size com.example.softwareengineering.RecoveryRate.getSmallestPreviewSize (
    int width,
    int height,
    Camera.Parameters parameters ) [static], [private]
```

Definition at line 335 of file RecoveryRate.java.

#### 6.17.2.3 onConfigurationChanged()

```
void com.example.softwareengineering.RecoveryRate.onConfigurationChanged (
    Configuration newConfig )
```

Definition at line 126 of file RecoveryRate.java.

#### 6.17.2.4 onCreate()

```
void com.example.softwareengineering.RecoveryRate.onCreate (
    Bundle savedInstanceState )
```

Definition at line 93 of file RecoveryRate.java.

#### 6.17.2.5 onPause()

```
void com.example.softwareengineering.RecoveryRate.onPause ( )
```

Definition at line 151 of file RecoveryRate.java.

#### 6.17.2.6 onResume()

```
void com.example.softwareengineering.RecoveryRate.onResume ( )
```

Definition at line 134 of file RecoveryRate.java.

### 6.17.3 Member Data Documentation

#### 6.17.3.1 auth

```
FirebaseAuth com.example.softwareengineering.RecoveryRate.auth [package]
```

Definition at line 38 of file RecoveryRate.java.

#### 6.17.3.2 averageArray

```
final int [ ] com.example.softwareengineering.RecoveryRate.averageArray = new int[average←'  
ArraySize] [static], [private]
```

Definition at line 56 of file RecoveryRate.java.

#### 6.17.3.3 averageArraySize

```
final int com.example.softwareengineering.RecoveryRate.averageArraySize = 4 [static], [private]
```

Definition at line 55 of file RecoveryRate.java.

#### 6.17.3.4 averageIndex

```
int com.example.softwareengineering.RecoveryRate.averageIndex = 0 [static], [private]
```

Definition at line 54 of file RecoveryRate.java.

## 6.17.3.5 beats

```
double com.example.softwareengineering.RecoveryRate.beats = 0 [static], [private]
```

Definition at line 82 of file RecoveryRate.java.

## 6.17.3.6 beatsArray

```
final int [ ] com.example.softwareengineering.RecoveryRate.beatsArray = new int[beatsArraySize]  
[static], [private]
```

Definition at line 81 of file RecoveryRate.java.

## 6.17.3.7 beatsArraySize

```
final int com.example.softwareengineering.RecoveryRate.beatsArraySize = 3 [static], [private]
```

Definition at line 80 of file RecoveryRate.java.

## 6.17.3.8 beatsIndex

```
int com.example.softwareengineering.RecoveryRate.beatsIndex = 0 [static], [private]
```

Definition at line 79 of file RecoveryRate.java.

## 6.17.3.9 camera

```
Camera com.example.softwareengineering.RecoveryRate.camera = null [static], [private]
```

Definition at line 47 of file RecoveryRate.java.

## 6.17.3.10 currentType

```
TYPE com.example.softwareengineering.RecoveryRate.currentType = TYPE.GREEN [static], [private]
```

Definition at line 69 of file RecoveryRate.java.

#### 6.17.3.11 databaseReference

```
DatabaseReference com.example.softwareengineering.RecoveryRate.databaseReference [static],  
[package]
```

Definition at line 40 of file RecoveryRate.java.

#### 6.17.3.12 dr2

```
DatabaseReference com.example.softwareengineering.RecoveryRate.dr2 [static], [package]
```

Definition at line 40 of file RecoveryRate.java.

#### 6.17.3.13 finalHeartRate

```
int com.example.softwareengineering.RecoveryRate.finalHeartRate [static]
```

Definition at line 87 of file RecoveryRate.java.

#### 6.17.3.14 flag

```
int com.example.softwareengineering.RecoveryRate.flag = 0 [static], [private]
```

Definition at line 84 of file RecoveryRate.java.

#### 6.17.3.15 heartRate

```
String com.example.softwareengineering.RecoveryRate.heartRate [static], [private]
```

Definition at line 75 of file RecoveryRate.java.

#### 6.17.3.16 heartRateNumber

```
int com.example.softwareengineering.RecoveryRate.heartRateNumber = 90 [static], [private]
```

Definition at line 78 of file RecoveryRate.java.



## 6.17.3.17 image

```
View com.example.softwareengineering.RecoveryRate.image = null [static], [private]
```

Definition at line 48 of file RecoveryRate.java.

## 6.17.3.18 initialHeartRate

```
int com.example.softwareengineering.RecoveryRate.initialHeartRate [static]
```

Definition at line 86 of file RecoveryRate.java.

## 6.17.3.19 initTime

```
double com.example.softwareengineering.RecoveryRate.initTime [static], [private]
```

Definition at line 77 of file RecoveryRate.java.

## 6.17.3.20 preview

```
SurfaceView com.example.softwareengineering.RecoveryRate.preview = null [static], [private]
```

Definition at line 45 of file RecoveryRate.java.

## 6.17.3.21 previewCallback

```
PreviewCallback com.example.softwareengineering.RecoveryRate.previewCallback [static], [private]
```

Definition at line 162 of file RecoveryRate.java.

## 6.17.3.22 previewHolder

```
SurfaceHolder com.example.softwareengineering.RecoveryRate.previewHolder = null [static],  
[private]
```

Definition at line 46 of file RecoveryRate.java.

#### 6.17.3.23 processing

```
final AtomicBoolean com.example.softwareengineering.RecoveryRate.processing = new AtomicBoolean(false) [static], [private]
```

Definition at line 43 of file RecoveryRate.java.

#### 6.17.3.24 recoveryRate

```
double com.example.softwareengineering.RecoveryRate.recoveryRate [static], [private]
```

Definition at line 76 of file RecoveryRate.java.

#### 6.17.3.25 startTime

```
long com.example.softwareengineering.RecoveryRate.startTime = 0 [static], [private]
```

Definition at line 83 of file RecoveryRate.java.

#### 6.17.3.26 surfaceCallback

```
SurfaceHolder.Callback com.example.softwareengineering.RecoveryRate.surfaceCallback [static], [private]
```

Definition at line 295 of file RecoveryRate.java.

#### 6.17.3.27 TAG

```
final String com.example.softwareengineering.RecoveryRate.TAG = "RecoveryRate" [static], [private]
```

Definition at line 42 of file RecoveryRate.java.

#### 6.17.3.28 text

```
TextView com.example.softwareengineering.RecoveryRate.text = null [static], [private]
```

Definition at line 49 of file RecoveryRate.java.

## 6.17.3.29 text1

```
TextView com.example.softwareengineering.RecoveryRate.text1 = null [static], [private]
```

Definition at line 50 of file RecoveryRate.java.

## 6.17.3.30 user

```
FirebaseUser com.example.softwareengineering.RecoveryRate.user [static], [package]
```

Definition at line 39 of file RecoveryRate.java.

## 6.17.3.31 wakeLock

```
WakeLock com.example.softwareengineering.RecoveryRate.wakeLock = null [static], [private]
```

Definition at line 52 of file RecoveryRate.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[RecoveryRate.java](#)

## 6.18 com.example.softwareengineering.RecyclerItemClickListener Class Reference

Inheritance diagram for com.example.softwareengineering.RecyclerItemClickListener:

Collaboration diagram for com.example.softwareengineering.RecyclerItemClickListener:

## Classes

- interface [OnItemClickListener](#)

## Public Member Functions

- [RecyclerItemClickListener](#) (Context context, RecyclerView recyclerView, [OnItemClickListener](#) listener)
- boolean [onInterceptTouchEvent](#) (RecyclerView view, MotionEvent e)
- void [onTouchEvent](#) (RecyclerView view, MotionEvent motionEvent)
- void [onRequestDisallowInterceptTouchEvent](#) (boolean disallowIntercept)

## Package Attributes

- GestureDetector [mGestureDetector](#)

## Private Attributes

- [OnItemClickListener mListener](#)

### 6.18.1 Detailed Description

Definition at line 14 of file RecyclerViewItemClickListener.java.

### 6.18.2 Constructor & Destructor Documentation

#### 6.18.2.1 RecyclerViewItemClickListener()

```
com.example.softwareengineering.RecyclerViewItemClickListener.RecyclerViewItemClickListener (
    Context context,
    RecyclerView recyclerView,
    OnItemClickListener listener )
```

Definition at line 25 of file RecyclerViewItemClickListener.java.

### 6.18.3 Member Function Documentation

#### 6.18.3.1 onInterceptTouchEvent()

```
boolean com.example.softwareengineering.RecyclerViewItemClickListener.onInterceptTouchEvent (
    RecyclerView view,
    MotionEvent e )
```

Definition at line 36 of file RecyclerViewItemClickListener.java.

#### 6.18.3.2 onRequestDisallowInterceptTouchEvent()

```
void com.example.softwareengineering.RecyclerViewItemClickListener.onRequestDisallowIntercept←'
TouchEvent (
    boolean disallowIntercept )
```

Definition at line 49 of file RecyclerViewItemClickListener.java.

## 6.18.3.3 onTouchEvent()

```
void com.example.softwareengineering.RecyclerItemClickListener.onTouchEvent (
    RecyclerView view,
    MotionEvent motionEvent )
```

Definition at line 45 of file RecyclerItemClickListener.java.

## 6.18.4 Member Data Documentation

## 6.18.4.1 mGestureDetector

```
GestureDetector com.example.softwareengineering.RecyclerItemClickListener.mGestureDetector
[package]
```

Definition at line 23 of file RecyclerItemClickListener.java.

## 6.18.4.2 mListener

```
OnItemClickListener com.example.softwareengineering.RecyclerItemClickListener.mListener [private]
```

Definition at line 15 of file RecyclerItemClickListener.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[RecyclerItemClickListener.java](#)

## 6.19 com.example.softwareengineering.RegisterActivity Class Reference

Inheritance diagram for com.example.softwareengineering.RegisterActivity:

Collaboration diagram for com.example.softwareengineering.RegisterActivity:

## Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)

## Package Attributes

- EditText [inputEmail](#)
- EditText [inputPassword](#)
- Button [Register](#)
- FirebaseAuth [auth](#)

### 6.19.1 Detailed Description

Created by HIMABINDU on 11/29/2017.

Definition at line 22 of file RegisterActivity.java.

### 6.19.2 Member Function Documentation

#### 6.19.2.1 onCreate()

```
void com.example.softwareengineering.RegisterActivity.onCreate (
    Bundle savedInstanceState ) [protected]
```

Definition at line 30 of file RegisterActivity.java.

### 6.19.3 Member Data Documentation

#### 6.19.3.1 auth

```
FirebaseAuth com.example.softwareengineering.RegisterActivity.auth [package]
```

Definition at line 27 of file RegisterActivity.java.

#### 6.19.3.2 inputEmail

```
EditText com.example.softwareengineering.RegisterActivity.inputEmail [package]
```

Definition at line 25 of file RegisterActivity.java.

#### 6.19.3.3 inputPassword

```
EditText com.example.softwareengineering.RegisterActivity.inputPassword [package]
```

Definition at line 25 of file RegisterActivity.java.

## 6.19.3.4 Register

Button com.example.softwareengineering.RegisterActivity.Register [package]

Definition at line 26 of file RegisterActivity.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[RegisterActivity.java](#)

## 6.20 com.example.softwareengineering.SelectPhysician Class Reference

Inheritance diagram for com.example.softwareengineering.SelectPhysician:

Collaboration diagram for com.example.softwareengineering.SelectPhysician:

## Public Attributes

- ArrayList< String > [nameList](#) = new ArrayList<>()

## Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)

## Package Attributes

- ListView [listView](#)
- ArrayAdapter< String > [adapter](#)
- DatabaseReference [databaseReference](#)
- DatabaseReference [dbref1](#)
- DatabaseReference [dbref3](#)
- FirebaseAuth [auth](#)
- FirebaseUser [user](#)

## Private Attributes

- ArrayList< String > [idList](#) = new ArrayList<>()

## 6.20.1 Detailed Description

Created by HIMABINDU on 12/12/2017.

Definition at line 26 of file SelectPhysician.java.

## 6.20.2 Member Function Documentation

### 6.20.2.1 onCreate()

```
void com.example.softwareengineering.SelectPhysician.onCreate (
    Bundle savedInstanceState ) [protected]
```

Definition at line 39 of file SelectPhysician.java.

## 6.20.3 Member Data Documentation

### 6.20.3.1 adapter

```
ArrayAdapter<String> com.example.softwareengineering.SelectPhysician.adapter [package]
```

Definition at line 30 of file SelectPhysician.java.

### 6.20.3.2 auth

```
FirebaseAuth com.example.softwareengineering.SelectPhysician.auth [package]
```

Definition at line 32 of file SelectPhysician.java.

### 6.20.3.3 databaseReference

```
DatabaseReference com.example.softwareengineering.SelectPhysician.databaseReference [package]
```

Definition at line 31 of file SelectPhysician.java.

### 6.20.3.4 dbref1

```
DatabaseReference com.example.softwareengineering.SelectPhysician.dbref1 [package]
```

Definition at line 31 of file SelectPhysician.java.



## 6.20.3.5 dbref3

DatabaseReference com.example.softwareengineering.SelectPhysician.dbref3 [package]

Definition at line 31 of file SelectPhysician.java.

## 6.20.3.6 idList

ArrayList<String> com.example.softwareengineering.SelectPhysician.idList = new ArrayList<>()  
[private]

Definition at line 35 of file SelectPhysician.java.

## 6.20.3.7 listView

ListView com.example.softwareengineering.SelectPhysician.listView [package]

Definition at line 29 of file SelectPhysician.java.

## 6.20.3.8 nameList

ArrayList<String> com.example.softwareengineering.SelectPhysician.nameList = new ArrayList<>()

Definition at line 34 of file SelectPhysician.java.

## 6.20.3.9 user

FirebaseUser com.example.softwareengineering.SelectPhysician.user [package]

Definition at line 33 of file SelectPhysician.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[SelectPhysician.java](#)

## 6.21 com.example.softwareengineering.SensorFilter Class Reference

## Static Public Member Functions

- static float [sum](#) (float[ ] array)
- static float [ ] [cross](#) (float[ ] arrayA, float[ ] arrayB)
- static float [norm](#) (float[ ] array)
- static float [dot](#) (float[ ] a, float[ ] b)
- static float [ ] [normalize](#) (float[ ] a)

## Private Member Functions

- [SensorFilter](#) ()

### 6.21.1 Detailed Description

Created by aymoo on 12/3/2017.

Definition at line 8 of file SensorFilter.java.

### 6.21.2 Constructor & Destructor Documentation

#### 6.21.2.1 SensorFilter()

```
com.example.softwareengineering.SensorFilter.SensorFilter ( ) [private]
```

Definition at line 9 of file SensorFilter.java.

### 6.21.3 Member Function Documentation

#### 6.21.3.1 cross()

```
static float [ ] com.example.softwareengineering.SensorFilter.cross (
    float [ ] arrayA,
    float [ ] arrayB ) [static]
```

Definition at line 21 of file SensorFilter.java.

#### 6.21.3.2 dot()

```
static float com.example.softwareengineering.SensorFilter.dot (
    float [ ] a,
    float [ ] b ) [static]
```

Definition at line 40 of file SensorFilter.java.

## 6.21.3.3 norm()

```
static float com.example.softwareengineering.SensorFilter.norm (  
    float [ ] array ) [static]
```

Definition at line 30 of file SensorFilter.java.

## 6.21.3.4 normalize()

```
static float [ ] com.example.softwareengineering.SensorFilter.normalize (  
    float [ ] a ) [static]
```

Definition at line 44 of file SensorFilter.java.

## 6.21.3.5 sum()

```
static float com.example.softwareengineering.SensorFilter.sum (  
    float [ ] array ) [static]
```

Definition at line 13 of file SensorFilter.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[SensorFilter.java](#)

## 6.22 com.example.softwareengineering.SplashActivity Class Reference

Inheritance diagram for com.example.softwareengineering.SplashActivity:

Collaboration diagram for com.example.softwareengineering.SplashActivity:

### Protected Member Functions

- void [onCreate](#) (@Nullable Bundle savedInstanceState)

### 6.22.1 Detailed Description

Definition at line 10 of file SplashActivity.java.

### 6.22.2 Member Function Documentation

## 6.22.2.1 onCreate()

```
void com.example.softwareengineering.SplashActivity.onCreate (
    @Nullable Bundle savedInstanceState ) [protected]
```

Definition at line 13 of file SplashActivity.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[SplashActivity.java](#)

## 6.23 com.example.softwareengineering.StepCounter Class Reference

Inheritance diagram for com.example.softwareengineering.StepCounter:

Collaboration diagram for com.example.softwareengineering.StepCounter:

## Public Member Functions

- boolean [onCreateOptionsMenu](#) (Menu menu)
- boolean [onOptionsItemSelected](#) (MenuItem item)
- void [onSensorChanged](#) (SensorEvent event)
- void [onAccuracyChanged](#) (Sensor sensor, int accuracy)
- void [step](#) (long timeNs)

## Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)

## Package Attributes

- FirebaseAuth [auth](#)
- FirebaseUser [user](#)
- DatabaseReference [databaseReference](#)
- DatabaseReference [dr1](#)
- Map < String, String > [countWithDate](#) = new HashMap < >()
- String [previousDay](#)
- DateFormat [dateFormat](#)
- Date [currentDate](#)
- String [dateString](#)
- String [numberOfSteps](#)

## Private Attributes

- TextView [TvMiles](#)
- TextView [TvCalories](#)
- CircularProgressBar [circularProgressBar1](#)
- StepDetector [simpleStepDetector](#)
- SensorManager [sensorManager](#)
- Sensor [accel](#)
- int [numSteps](#)
- double [miles](#)
- double [calories](#)

### Static Private Attributes

- static final String `TEXT_Miles_STEPS` = " Mile"
- static final String `TEXT_Miles_Calorie` = " Kcal"

### 6.23.1 Detailed Description

Definition at line 38 of file `StepCounter.java`.

### 6.23.2 Member Function Documentation

#### 6.23.2.1 `onAccuracyChanged()`

```
void com.example.softwareengineering.StepCounter.onAccuracyChanged (
    Sensor sensor,
    int accuracy )
```

Definition at line 201 of file `StepCounter.java`.

#### 6.23.2.2 `onCreate()`

```
void com.example.softwareengineering.StepCounter.onCreate (
    Bundle savedInstanceState ) [protected]
```

Definition at line 73 of file `StepCounter.java`.

#### 6.23.2.3 `onCreateOptionsMenu()`

```
boolean com.example.softwareengineering.StepCounter.onCreateOptionsMenu (
    Menu menu )
```

Definition at line 168 of file `StepCounter.java`.

#### 6.23.2.4 `onOptionsItemSelected()`

```
boolean com.example.softwareengineering.StepCounter.onOptionsItemSelected (
    MenuItem item )
```

Definition at line 175 of file `StepCounter.java`.

#### 6.23.2.5 onSensorChanged()

```
void com.example.softwareengineering.StepCounter.onSensorChanged (
    SensorEvent event )
```

Definition at line 192 of file StepCounter.java.

#### 6.23.2.6 step()

```
void com.example.softwareengineering.StepCounter.step (
    long timeNs )
```

Implements [com.example.softwareengineering.StepListener](#).

Definition at line 206 of file StepCounter.java.

### 6.23.3 Member Data Documentation

#### 6.23.3.1 accel

```
Sensor com.example.softwareengineering.StepCounter.accel [private]
```

Definition at line 53 of file StepCounter.java.

#### 6.23.3.2 auth

```
FirebaseAuth com.example.softwareengineering.StepCounter.auth [package]
```

Definition at line 44 of file StepCounter.java.

#### 6.23.3.3 calories

```
double com.example.softwareengineering.StepCounter.calories [private]
```

Definition at line 60 of file StepCounter.java.

## 6.23.3.4 circularProgressBar1

`CircularProgressBar` com.example.softwareengineering.StepCounter.circularProgressBar1 [private]

Definition at line 42 of file StepCounter.java.

## 6.23.3.5 countWithDate

```
Map<String, String> com.example.softwareengineering.StepCounter.countWithDate = new Hash<'  
Map<>() [package]
```

Definition at line 47 of file StepCounter.java.

## 6.23.3.6 currentDate

`Date` com.example.softwareengineering.StepCounter.currentDate [package]

Definition at line 65 of file StepCounter.java.

## 6.23.3.7 databaseReference

`DatabaseReference` com.example.softwareengineering.StepCounter.databaseReference [package]

Definition at line 46 of file StepCounter.java.

## 6.23.3.8 dateFormat

`DateFormat` com.example.softwareengineering.StepCounter.dateFormat [package]

Definition at line 64 of file StepCounter.java.

## 6.23.3.9 dateString

`String` com.example.softwareengineering.StepCounter.dateString [package]

Definition at line 66 of file StepCounter.java.

#### 6.23.3.10 dr1

DatabaseReference com.example.softwareengineering.StepCounter.dr1 [package]

Definition at line 46 of file StepCounter.java.

#### 6.23.3.11 miles

double com.example.softwareengineering.StepCounter.miles [private]

Definition at line 59 of file StepCounter.java.

#### 6.23.3.12 numberOfSteps

String com.example.softwareengineering.StepCounter.numberOfSteps [package]

Definition at line 67 of file StepCounter.java.

#### 6.23.3.13 numSteps

int com.example.softwareengineering.StepCounter.numSteps [private]

Definition at line 58 of file StepCounter.java.

#### 6.23.3.14 previousDay

String com.example.softwareengineering.StepCounter.previousDay [package]

Definition at line 48 of file StepCounter.java.

#### 6.23.3.15 sensorManager

SensorManager com.example.softwareengineering.StepCounter.sensorManager [private]

Definition at line 52 of file StepCounter.java.



## 6.23.3.16 simpleStepDetector

```
StepDetector com.example.softwareengineering.StepCounter.simpleStepDetector [private]
```

Definition at line 51 of file StepCounter.java.

## 6.23.3.17 TEXT\_Miles\_Calorie

```
final String com.example.softwareengineering.StepCounter.TEXT_Miles_Calorie = " Kcal" [static],  
[private]
```

Definition at line 56 of file StepCounter.java.

## 6.23.3.18 TEXT\_Miles\_STEPS

```
final String com.example.softwareengineering.StepCounter.TEXT_Miles_STEPS = " Mile" [static],  
[private]
```

Definition at line 55 of file StepCounter.java.

## 6.23.3.19 TvCalories

```
TextView com.example.softwareengineering.StepCounter.TvCalories [private]
```

Definition at line 41 of file StepCounter.java.

## 6.23.3.20 TvMiles

```
TextView com.example.softwareengineering.StepCounter.TvMiles [private]
```

Definition at line 40 of file StepCounter.java.

## 6.23.3.21 user

```
FirebaseUser com.example.softwareengineering.StepCounter.user [package]
```

Definition at line 45 of file StepCounter.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[StepCounter.java](#)

## 6.24 com.example.softwareengineering.StepDetector Class Reference

Collaboration diagram for com.example.softwareengineering.StepDetector:

### Public Member Functions

- void [registerListener](#) ([StepListener](#) listener)
- void [updateAccel](#) (long timeNs, float x, float y, float z)

### Private Attributes

- int [accelRingCounter](#) =0
- float [] [accelRingX](#) = new float[[ACCEL\\_RING\\_SIZE](#)]
- float [] [accelRingY](#) = new float[[ACCEL\\_RING\\_SIZE](#)]
- float [] [accelRingZ](#) = new float[[ACCEL\\_RING\\_SIZE](#)]
- int [velRingCounter](#) = 0
- float [ ] [velRing](#) = new float[[VEL\\_RING\\_SIZE](#)]
- long [lastStepTimeNs](#) = 0
- float [oldVelocityEstimate](#) = 0
- [StepListener](#) listener

### Static Private Attributes

- static final int [ACCEL\\_RING\\_SIZE](#) = 50
- static final int [VEL\\_RING\\_SIZE](#) = 10
- static final float [STEP\\_THRESHOLD](#) = 50f
- static final int [STEP\\_DELAY\\_NS](#) = 250000000

### 6.24.1 Detailed Description

Created by aymoo on 9/19/2017.

Definition at line 9 of file StepDetector.java.

### 6.24.2 Member Function Documentation

#### 6.24.2.1 registerListener()

```
void com.example.softwareengineering.StepDetector.registerListener (  
    StepListener listener )
```

Definition at line 27 of file StepDetector.java.

#### 6.24.2.2 updateAccel()

```
void com.example.softwareengineering.StepDetector.updateAccel (
    long timeNs,
    float x,
    float y,
    float z )
```

Definition at line 30 of file StepDetector.java.

### 6.24.3 Member Data Documentation

#### 6.24.3.1 ACCEL\_RING\_SIZE

```
final int com.example.softwareengineering.StepDetector.ACCEL_RING_SIZE = 50 [static], [private]
```

Definition at line 10 of file StepDetector.java.

#### 6.24.3.2 accelRingCounter

```
int com.example.softwareengineering.StepDetector.accelRingCounter =0 [private]
```

Definition at line 15 of file StepDetector.java.

#### 6.24.3.3 accelRingX

```
float [ ] com.example.softwareengineering.StepDetector.accelRingX = new float[ACCEL_RING_SIZE]
[private]
```

Definition at line 16 of file StepDetector.java.

#### 6.24.3.4 accelRingY

```
float [ ] com.example.softwareengineering.StepDetector.accelRingY = new float[ACCEL_RING_SIZE]
[private]
```

Definition at line 17 of file StepDetector.java.

#### 6.24.3.5 accelRingZ

```
float [ ] com.example.softwareengineering.StepDetector.accelRingZ = new float[ACCEL_RING_SIZE]
[private]
```

Definition at line 18 of file StepDetector.java.

#### 6.24.3.6 lastStepTimeNs

```
long com.example.softwareengineering.StepDetector.lastStepTimeNs = 0 [private]
```

Definition at line 21 of file StepDetector.java.

#### 6.24.3.7 listener

```
StepListener com.example.softwareengineering.StepDetector.listener [private]
```

Definition at line 24 of file StepDetector.java.

#### 6.24.3.8 oldVelocityEstimate

```
float com.example.softwareengineering.StepDetector.oldVelocityEstimate = 0 [private]
```

Definition at line 22 of file StepDetector.java.

#### 6.24.3.9 STEP\_DELAY\_NS

```
final int com.example.softwareengineering.StepDetector.STEP_DELAY_NS = 250000000 [static],
[private]
```

Definition at line 14 of file StepDetector.java.

#### 6.24.3.10 STEP\_THRESHOLD

```
final float com.example.softwareengineering.StepDetector.STEP_THRESHOLD = 50f [static], [private]
```

Definition at line 13 of file StepDetector.java.

## 6.24.3.11 VEL\_RING\_SIZE

```
final int com.example.softwareengineering.StepDetector.VEL_RING_SIZE = 10 [static], [private]
```

Definition at line 11 of file StepDetector.java.

## 6.24.3.12 velRing

```
float [ ] com.example.softwareengineering.StepDetector.velRing = new float[VEL_RING_SIZE] [private]
```

Definition at line 20 of file StepDetector.java.

## 6.24.3.13 velRingCounter

```
int com.example.softwareengineering.StepDetector.velRingCounter = 0 [private]
```

Definition at line 19 of file StepDetector.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[StepDetector.java](#)

## 6.25 com.example.softwareengineering.StepListener Interface Reference

Inheritance diagram for com.example.softwareengineering.StepListener:

### Public Member Functions

- void [step](#) (long timeNs)

### 6.25.1 Detailed Description

Created by aymoo on 12/3/2017.

Definition at line 7 of file StepListener.java.

### 6.25.2 Member Function Documentation

#### 6.25.2.1 step()

```
void com.example.softwareengineering.StepListener.step (
    long timeNs )
```

Implemented in [com.example.softwareengineering.StepCounter](#).

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[StepListener.java](#)

## 6.26 com.example.softwareengineering.ToDo Class Reference

### Public Member Functions

- [ToDo](#) (int [id](#), String [title](#), String [details](#), String [date](#), String [time](#), int [notification\\_state](#))
- [ToDo](#) ()
- [ToDo](#) (String [title](#), String [details](#), String [date](#), String [time](#), int [notification\\_state](#))
- String [getTitle](#) ()
- void [setTitle](#) (String [title](#))
- String [getDetails](#) ()
- void [setDetails](#) (String [details](#))
- String [getDate](#) ()
- void [setDate](#) (String [date](#))
- String [getTime](#) ()
- void [setTime](#) (String [time](#))
- int [getId](#) ()
- void [setId](#) (int [id](#))
- int [getNotification\\_state](#) ()
- void [setNotification\\_state](#) (int [notification\\_state](#))

### Package Attributes

- String [details](#)
- String [date](#)
- String [time](#)

### Private Attributes

- String [title](#)
- int [id](#)
- int [notification\\_state](#)

#### 6.26.1 Detailed Description

Created by aymoo on 12/7/2017.

Definition at line 7 of file [ToDo.java](#).

## 6.26.2 Constructor & Destructor Documentation

### 6.26.2.1 ToDo() [1/3]

```
com.example.softwareengineering.ToDo.ToDo (
    int id,
    String title,
    String details,
    String date,
    String time,
    int notification_state )
```

Definition at line 13 of file ToDo.java.

### 6.26.2.2 ToDo() [2/3]

```
com.example.softwareengineering.ToDo.ToDo ( )
```

Definition at line 23 of file ToDo.java.

### 6.26.2.3 ToDo() [3/3]

```
com.example.softwareengineering.ToDo.ToDo (
    String title,
    String details,
    String date,
    String time,
    int notification_state )
```

Definition at line 27 of file ToDo.java.

## 6.26.3 Member Function Documentation

### 6.26.3.1 getDate()

```
String com.example.softwareengineering.ToDo.getDate ( )
```

Definition at line 51 of file ToDo.java.

#### 6.26.3.2 getDetails()

```
String com.example.softwareengineering.ToDo.getDetails ( )
```

Definition at line 43 of file ToDo.java.

#### 6.26.3.3 getId()

```
int com.example.softwareengineering.ToDo.getId ( )
```

Definition at line 67 of file ToDo.java.

#### 6.26.3.4 getNotification\_state()

```
int com.example.softwareengineering.ToDo.getNotification_state ( )
```

Definition at line 75 of file ToDo.java.

#### 6.26.3.5 getTime()

```
String com.example.softwareengineering.ToDo.getTime ( )
```

Definition at line 59 of file ToDo.java.

#### 6.26.3.6 getTitle()

```
String com.example.softwareengineering.ToDo.getTitle ( )
```

Definition at line 35 of file ToDo.java.

#### 6.26.3.7 setDate()

```
void com.example.softwareengineering.ToDo.setDate (
    String date )
```

Definition at line 55 of file ToDo.java.



## 6.26.3.8 setDetails()

```
void com.example.softwareengineering.ToDo.setDetails (
    String details )
```

Definition at line 47 of file ToDo.java.

## 6.26.3.9 setId()

```
void com.example.softwareengineering.ToDo.setId (
    int id )
```

Definition at line 71 of file ToDo.java.

## 6.26.3.10 setNotification\_state()

```
void com.example.softwareengineering.ToDo.setNotification_state (
    int notification_state )
```

Definition at line 79 of file ToDo.java.

## 6.26.3.11 setTime()

```
void com.example.softwareengineering.ToDo.setTime (
    String time )
```

Definition at line 63 of file ToDo.java.

## 6.26.3.12 setTitle()

```
void com.example.softwareengineering.ToDo.setTitle (
    String title )
```

Definition at line 39 of file ToDo.java.

## 6.26.4 Member Data Documentation

#### 6.26.4.1 date

```
String com.example.softwareengineering.ToDo.date [package]
```

Definition at line 8 of file ToDo.java.

#### 6.26.4.2 details

```
String com.example.softwareengineering.ToDo.details [package]
```

Definition at line 8 of file ToDo.java.

#### 6.26.4.3 id

```
int com.example.softwareengineering.ToDo.id [private]
```

Definition at line 9 of file ToDo.java.

#### 6.26.4.4 notification\_state

```
int com.example.softwareengineering.ToDo.notification_state [private]
```

Definition at line 10 of file ToDo.java.

#### 6.26.4.5 time

```
String com.example.softwareengineering.ToDo.time [package]
```

Definition at line 8 of file ToDo.java.

#### 6.26.4.6 title

```
String com.example.softwareengineering.ToDo.title [private]
```

Definition at line 8 of file ToDo.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[ToDo.java](#)

## 6.27 com.example.softwareengineering.ToDoAdapter Class Reference

Inheritance diagram for com.example.softwareengineering.ToDoAdapter:

Collaboration diagram for com.example.softwareengineering.ToDoAdapter:

### Classes

- class [MyViewHolder](#)

### Public Member Functions

- [ToDoAdapter](#) (List< [ToDo](#) > [todoList](#), [DatabaseHandler](#) databaseHandler, Context [context](#), RecyclerView [recyclerView](#), [ToDoAdapter](#) [todoAdapter](#))
- [MyViewHolder](#) [onCreateViewHolder](#) (ViewGroup parent, int viewType)
- void [onBindViewHolder](#) ([MyViewHolder](#) holder, final int position)
- int [getItemCount](#) ()

### Package Attributes

- [DatabaseHandler](#) [db](#)
- Context [context](#)

### Private Member Functions

- void [cancelAlarm](#) (int id)

### Private Attributes

- List< [ToDo](#) > [todoList](#)
- AlertDialog.Builder [alert](#)
- RecyclerView [recyclerView](#)
- [ToDoAdapter](#) [todoAdapter](#)

#### 6.27.1 Detailed Description

Definition at line 31 of file [ToDoAdapter.java](#).

#### 6.27.2 Constructor & Destructor Documentation

### 6.27.2.1 ToDoAdapter()

```
com.example.softwareengineering.ToDoAdapter.ToDoAdapter (
    List< ToDo > todoList,
    DatabaseHandler databaseHandler,
    Context context,
    RecyclerView recyclerView,
    ToDoAdapter todoAdapter )
```

Definition at line 74 of file `ToDoAdapter.java`.

## 6.27.3 Member Function Documentation

### 6.27.3.1 cancelAlarm()

```
void com.example.softwareengineering.ToDoAdapter.cancelAlarm (
    int id ) [private]
```

Definition at line 289 of file `ToDoAdapter.java`.

### 6.27.3.2 getItemCount()

```
int com.example.softwareengineering.ToDoAdapter.getItemCount ( )
```

Definition at line 299 of file `ToDoAdapter.java`.

### 6.27.3.3 onBindViewHolder()

```
void com.example.softwareengineering.ToDoAdapter.onBindViewHolder (
    MyViewHolder holder,
    final int position )
```

Definition at line 93 of file `ToDoAdapter.java`.

### 6.27.3.4 onCreateViewHolder()

```
MyViewHolder com.example.softwareengineering.ToDoAdapter.onCreateViewHolder (
    ViewGroup parent,
    int viewType )
```

Definition at line 87 of file `ToDoAdapter.java`.

#### 6.27.4 Member Data Documentation

##### 6.27.4.1 alert

`AlertDialog.Builder com.example.softwareengineering.ToDoAdapter.alert [private]`

Definition at line 70 of file `ToDoAdapter.java`.

##### 6.27.4.2 context

`Context com.example.softwareengineering.ToDoAdapter.context [package]`

Definition at line 73 of file `ToDoAdapter.java`.

##### 6.27.4.3 db

`DatabaseHandler com.example.softwareengineering.ToDoAdapter.db [package]`

Definition at line 69 of file `ToDoAdapter.java`.

##### 6.27.4.4 recyclerView

`RecyclerView com.example.softwareengineering.ToDoAdapter.recyclerView [private]`

Definition at line 71 of file `ToDoAdapter.java`.

##### 6.27.4.5 toDoAdapter

`ToDoAdapter com.example.softwareengineering.ToDoAdapter.toDoAdapter [private]`

Definition at line 72 of file `ToDoAdapter.java`.

#### 6.27.4.6 toDoList

List<[ToDo](#)> com.example.softwareengineering.ToDoAdapter.toDoList [private]

Definition at line 68 of file ToDoAdapter.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[ToDoAdapter.java](#)

## 6.28 com.example.softwareengineering.ToDoMain Class Reference

Inheritance diagram for com.example.softwareengineering.ToDoMain:

Collaboration diagram for com.example.softwareengineering.ToDoMain:

### Public Member Functions

- void [addNewToDo](#) (View view)
- void [onBackPressed](#) ()

### Protected Member Functions

- void [onCreate](#) (Bundle savedInstanceState)

### Package Attributes

- [DatabaseHandler db](#)

### Private Attributes

- List< [ToDo](#) > [toDoList](#) = new ArrayList<>()
- [ToDoAdapter toDoAdapter](#)
- RecyclerView [recyclerView](#)
- TextView [noToDoText](#)
- ImageView [noToDoIcon](#)
- boolean [\\_doubleBackToExitPressedOnce](#) = false

#### 6.28.1 Detailed Description

Definition at line 29 of file ToDoMain.java.

#### 6.28.2 Member Function Documentation

#### 6.28.2.1 addNewToDo()

```
void com.example.softwareengineering.ToDoMain.addNewToDo (
    View view )
```

Definition at line 69 of file ToDoMain.java.

#### 6.28.2.2 onBackPressed()

```
void com.example.softwareengineering.ToDoMain.onBackPressed ( )
```

Definition at line 75 of file ToDoMain.java.

#### 6.28.2.3 onCreate()

```
void com.example.softwareengineering.ToDoMain.onCreate (
    Bundle savedInstanceState ) [protected]
```

Definition at line 40 of file ToDoMain.java.

### 6.28.3 Member Data Documentation

#### 6.28.3.1 \_doubleBackToExitPressedOnce

```
boolean com.example.softwareengineering.ToDoMain._doubleBackToExitPressedOnce = false [private]
```

Definition at line 37 of file ToDoMain.java.

#### 6.28.3.2 db

```
DatabaseHandler com.example.softwareengineering.ToDoMain.db [package]
```

Definition at line 33 of file ToDoMain.java.

### 6.28.3.3 noToDoIcon

```
ImageView com.example.softwareengineering.ToDoMain.noToDoIcon [private]
```

Definition at line 36 of file ToDoMain.java.

### 6.28.3.4 noToDoText

```
TextView com.example.softwareengineering.ToDoMain.noToDoText [private]
```

Definition at line 35 of file ToDoMain.java.

### 6.28.3.5 recyclerView

```
RecyclerView com.example.softwareengineering.ToDoMain.recyclerView [private]
```

Definition at line 34 of file ToDoMain.java.

### 6.28.3.6 toDoAdapter

```
ToDoAdapter com.example.softwareengineering.ToDoMain.toDoAdapter [private]
```

Definition at line 32 of file ToDoMain.java.

### 6.28.3.7 toDoList

```
List<ToDo> com.example.softwareengineering.ToDoMain.toDoList = new ArrayList<>() [private]
```

Definition at line 31 of file ToDoMain.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[ToDoMain.java](#)

## 6.29 com.example.softwareengineering.HeartRateMonitor.TYPE Enum Reference

### Public Attributes

- [GREEN](#)
- [RED](#)



### 6.29.1 Detailed Description

Definition at line 67 of file HeartRateMonitor.java.

### 6.29.2 Member Data Documentation

#### 6.29.2.1 GREEN

```
com.example.softwareengineering.HeartRateMonitor.TYPE.GREEN
```

Definition at line 68 of file HeartRateMonitor.java.

#### 6.29.2.2 RED

```
com.example.softwareengineering.HeartRateMonitor.TYPE.RED
```

Definition at line 68 of file HeartRateMonitor.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[HeartRateMonitor.java](#)

## 6.30 com.example.softwareengineering.RecoveryRate.TYPE Enum Reference

### Public Attributes

- [GREEN](#)
- [RED](#)

### 6.30.1 Detailed Description

Definition at line 63 of file RecoveryRate.java.

### 6.30.2 Member Data Documentation

### 6.30.2.1 GREEN

```
com.example.softwareengineering.RecoveryRate.TYPE.GREEN
```

Definition at line 64 of file RecoveryRate.java.

### 6.30.2.2 RED

```
com.example.softwareengineering.RecoveryRate.TYPE.RED
```

Definition at line 64 of file RecoveryRate.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[RecoveryRate.java](#)

## 6.31 com.example.softwareengineering.UserInformation Class Reference

### Public Member Functions

- [UserInformation](#) ()
- [UserInformation](#) (String [id](#), String [name](#), String [email](#), String [age](#), String [gender](#), String [height](#), String [weight](#), String [target](#), String [heartRate](#))
- String [getId](#) ()
- String [getName](#) ()
- String [getEmail](#) ()
- String [getAge](#) ()
- String [getGender](#) ()
- String [getHeight](#) ()
- String [getWeight](#) ()
- String [getTarget](#) ()
- String [getHeartRate](#) ()

### Package Attributes

- String [id](#)
- String [name](#)
- String [email](#)
- String [age](#)
- String [gender](#)
- String [height](#)
- String [weight](#)
- String [target](#)
- String [heartRate](#)

### 6.31.1 Detailed Description

Created by HIMABINDU on 12/1/2017.

Definition at line 7 of file UserInformation.java.

### 6.31.2 Constructor & Destructor Documentation

#### 6.31.2.1 UserInformation() [ 1 / 2 ]

```
com.example.softwareengineering.UserInformation.UserInformation ( )
```

Definition at line 20 of file UserInformation.java.

#### 6.31.2.2 UserInformation() [ 2 / 2 ]

```
com.example.softwareengineering.UserInformation.UserInformation (
    String id,
    String name,
    String email,
    String age,
    String gender,
    String height,
    String weight,
    String target,
    String heartRate )
```

Definition at line 25 of file UserInformation.java.

### 6.31.3 Member Function Documentation

#### 6.31.3.1 getAge()

```
String com.example.softwareengineering.UserInformation.getAge ( )
```

Definition at line 52 of file UserInformation.java.

#### 6.31.3.2 getEmail()

```
String com.example.softwareengineering.UserInformation.getEmail ( )
```

Definition at line 47 of file UserInformation.java.

#### 6.31.3.3 getGender()

```
String com.example.softwareengineering.UserInformation.getGender ( )
```

Definition at line 56 of file UserInformation.java.

#### 6.31.3.4 getHeartRate()

```
String com.example.softwareengineering.UserInformation.getHeartRate ( )
```

Definition at line 72 of file UserInformation.java.

#### 6.31.3.5 getHeight()

```
String com.example.softwareengineering.UserInformation.getHeight ( )
```

Definition at line 60 of file UserInformation.java.

#### 6.31.3.6 getId()

```
String com.example.softwareengineering.UserInformation.getId ( )
```

Definition at line 38 of file UserInformation.java.

#### 6.31.3.7 getName()

```
String com.example.softwareengineering.UserInformation.getName ( )
```

Definition at line 42 of file UserInformation.java.

## 6.31.3.8 getTarget()

```
String com.example.softwareengineering.UserInformation.getTarget ( )
```

Definition at line 68 of file UserInformation.java.

## 6.31.3.9 getWeight()

```
String com.example.softwareengineering.UserInformation.getWeight ( )
```

Definition at line 64 of file UserInformation.java.

## 6.31.4 Member Data Documentation

## 6.31.4.1 age

```
String com.example.softwareengineering.UserInformation.age [package]
```

Definition at line 12 of file UserInformation.java.

## 6.31.4.2 email

```
String com.example.softwareengineering.UserInformation.email [package]
```

Definition at line 11 of file UserInformation.java.

## 6.31.4.3 gender

```
String com.example.softwareengineering.UserInformation.gender [package]
```

Definition at line 13 of file UserInformation.java.

## 6.31.4.4 heartRate

```
String com.example.softwareengineering.UserInformation.heartRate [package]
```

Definition at line 17 of file UserInformation.java.

#### 6.31.4.5 height

```
String com.example.softwareengineering.UserInformation.height [package]
```

Definition at line 14 of file UserInformation.java.

#### 6.31.4.6 id

```
String com.example.softwareengineering.UserInformation.id [package]
```

Definition at line 9 of file UserInformation.java.

#### 6.31.4.7 name

```
String com.example.softwareengineering.UserInformation.name [package]
```

Definition at line 10 of file UserInformation.java.

#### 6.31.4.8 target

```
String com.example.softwareengineering.UserInformation.target [package]
```

Definition at line 16 of file UserInformation.java.

#### 6.31.4.9 weight

```
String com.example.softwareengineering.UserInformation.weight [package]
```

Definition at line 15 of file UserInformation.java.

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

- C:/Users/aymoo/Desktop/RU Healthy Documentatio/[UserInformation.java](#)

## Chapter 7

# File Documentation

### 7.1 C:/Users/aymoo/Desktop/RU Healthy Documentatio/AlarmReceiver.java File Reference

#### Classes

- class [com.example.softwareengineering.AlarmReceiver](#)

#### Packages

- package [com.example.softwareengineering](#)

### 7.2 C:/Users/aymoo/Desktop/RU Healthy Documentatio/BayesianPrediction.java File Reference

#### Classes

- class [com.example.softwareengineering.BayesianPrediction](#)

#### Packages

- package [com.example.softwareengineering](#)

### 7.3 C:/Users/aymoo/Desktop/RU Healthy Documentatio/CircularProgressBar.java File Reference

#### Classes

- class [com.example.softwareengineering.CircularProgressBar](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.4 C:/Users/aymoo/Desktop/RU Healthy Documentatio/DashboardActivity.java File Reference

### Classes

- class [com.example.softwareengineering.DashboardActivity](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.5 C:/Users/aymoo/Desktop/RU Healthy Documentatio/Data.java File Reference

### Classes

- class [com.example.softwareengineering.Data](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.6 C:/Users/aymoo/Desktop/RU Healthy Documentatio/DatabaseHandler.java File Reference

### Classes

- class [com.example.softwareengineering.DatabaseHandler](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.7 C:/Users/aymoo/Desktop/RU Healthy Documentatio/DividerItemDecoration.java File Reference

### Classes

- class [com.example.softwareengineering.DividerItemDecoration](#)



## Packages

- package [com.example.softwareengineering](#)

## 7.8 C:/Users/aymoo/Desktop/RU Healthy Documentatio/HeartBeatView.java File Reference

## Classes

- class [com.example.softwareengineering.HeartBeatView](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.9 C:/Users/aymoo/Desktop/RU Healthy Documentatio/HeartBeatView2.java File Reference

## Classes

- class [com.example.softwareengineering.HeartBeatView2](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.10 C:/Users/aymoo/Desktop/RU Healthy Documentatio/HeartRateMonitor.java File Reference

## Classes

- class [com.example.softwareengineering.HeartRateMonitor](#)
- enum [com.example.softwareengineering.HeartRateMonitor.TYPE](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.11 C:/Users/aymoo/Desktop/RU Healthy Documentatio/ImageProcessing.java File Reference

## Classes

- class [com.example.softwareengineering.ImageProcessing](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.12 C:/Users/aymoo/Desktop/RU Healthy Documentatio/MainActivity.java File Reference

## Classes

- class [com.example.softwareengineering.MainActivity](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.13 C:/Users/aymoo/Desktop/RU Healthy Documentatio/NewToDo.java File Reference

## Classes

- class [com.example.softwareengineering.NewToDo](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.14 C:/Users/aymoo/Desktop/RU Healthy Documentatio/ProfileActivity.java File Reference

## Classes

- class [com.example.softwareengineering.ProfileActivity](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.15 C:/Users/aymoo/Desktop/RU Healthy Documentatio/RecoveryRate.java File Reference

## Classes

- class [com.example.softwareengineering.RecoveryRate](#)
- enum [com.example.softwareengineering.RecoveryRate.TYPE](#)

#### Packages

- package [com.example.softwareengineering](#)

### 7.16 C:/Users/aymoo/Desktop/RU Healthy Documentatio/RecyclerViewItemClickListener.java File Reference

#### Classes

- class [com.example.softwareengineering.RecyclerViewItemClickListener](#)
- interface [com.example.softwareengineering.RecyclerViewItemClickListener.OnItemClickListener](#)

#### Packages

- package [com.example.softwareengineering](#)

### 7.17 C:/Users/aymoo/Desktop/RU Healthy Documentatio/RegisterActivity.java File Reference

#### Classes

- class [com.example.softwareengineering.RegisterActivity](#)

#### Packages

- package [com.example.softwareengineering](#)

### 7.18 C:/Users/aymoo/Desktop/RU Healthy Documentatio/SelectPhysician.java File Reference

#### Classes

- class [com.example.softwareengineering.SelectPhysician](#)

#### Packages

- package [com.example.softwareengineering](#)

### 7.19 C:/Users/aymoo/Desktop/RU Healthy Documentatio/SensorFilter.java File Reference

#### Classes

- class [com.example.softwareengineering.SensorFilter](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.20 C:/Users/aymoo/Desktop/RU Healthy Documentatio/SplashActivity.java File Reference

## Classes

- class [com.example.softwareengineering.SplashActivity](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.21 C:/Users/aymoo/Desktop/RU Healthy Documentatio/StepCounter.java File Reference

## Classes

- class [com.example.softwareengineering.StepCounter](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.22 C:/Users/aymoo/Desktop/RU Healthy Documentatio/StepDetector.java File Reference

## Classes

- class [com.example.softwareengineering.StepDetector](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.23 C:/Users/aymoo/Desktop/RU Healthy Documentatio/StepListener.java File Reference

## Classes

- interface [com.example.softwareengineering.StepListener](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.24 C:/Users/aymoo/Desktop/RU Healthy Documentatio/ToDo.java File Reference

## Classes

- class [com.example.softwareengineering.ToDo](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.25 C:/Users/aymoo/Desktop/RU Healthy Documentatio/ToDoAdapter.java File Reference

## Classes

- class [com.example.softwareengineering.ToDoAdapter](#)
- class [com.example.softwareengineering.ToDoAdapter.MyViewHolder](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.26 C:/Users/aymoo/Desktop/RU Healthy Documentatio/ToDoMain.java File Reference

## Classes

- class [com.example.softwareengineering.ToDoMain](#)

## Packages

- package [com.example.softwareengineering](#)

## 7.27 C:/Users/aymoo/Desktop/RU Healthy Documentatio/UserInformation.java File Reference

## Classes

- class [com.example.softwareengineering.UserInformation](#)

## Packages

- package [com.example.softwareengineering](#)



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