com.example.heartrateadjuster

Class MainActivity

java.lang.Object Activity

com.example.heartrateadjuster.MainActivity

public class MainActivity
extends Activity

The main screen of the application. Initializes chestStrap and audioSystem objects and sets up the UI with callbacks.

Fields Modifier and Type Field and Description IAudioSystem audioSystem Audio system object, instantiated as a AudioSystemFake TheartRateDevice chestStrap Chest strap object, instantiated as a ChestStrapFake

Constructor Summary			

Method Summar	ту
Modifier and Type	Method and Description
protected void	<pre>onCreate(Bundle savedInstanceState) Android fundamental method, used to instantiate all UI elements with callbacks.</pre>
boolean	onCreateOptionsMenu (Menu menu)

Methods inherited from class java.lang.Object

 ${\tt clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait}$

Field Detail

audioSystem

public IAudioSystem audioSystem

Audio system object, instantiated as a AudioSystemFake

chestStrap

public IHeartRateDevice chestStrap

Chest strap object, instantiated as a ChestStrapFake

Constructor Detail

MainActivity

public MainActivity()

Method Detail

onCreate

protected void onCreate(Bundle savedInstanceState)

Android fundamental method, used to instantiate all UI elements with callbacks.

Parameters:

savedInstanceState -

onCreateOptionsMenu

public boolean onCreateOptionsMenu(Menu menu)

onOptionsItemSelected

public boolean onOptionsItemSelected(MenuItem item)

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Prev Class Next Class Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

com.example.heartrateadjuster

Interface IAudioSystem

All Known Implementing Classes:

AudioSystemFake

public interface IAudioSystem

Interface to the Audio System.

Method Summary

Methods	
Modifier and Type	Method and Description
java.lang.String	getNowPlaying() Gets currently playing track.
void	<pre>setTargetHeartRate(int target) Sets the heart rate to be targeted by the system.</pre>
void	skipTrack () Skips the current track, begins playback of next.
void	togglePlayback() Toggles between playing and not playing.

Method Detail

getNowPlaying

java.lang.String getNowPlaying()

Gets currently playing track.

Returns:

The title of the currently playing track.

setTargetHeartRate

void setTargetHeartRate(int target)

Sets the heart rate to be targeted by the system.

Parameters:

target - The new target

skipTrack

void skipTrack()

Skips the current track, begins playback of next.

togglePlayback

void togglePlayback()

Toggles between playing and not playing.

Package Class Tree Help

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com.example.heartrateadjuster

Interface IHeartRateDevice

All Known Implementing Classes:

ChestStrapFake

public interface IHeartRateDevice

Interface with the Chest Strap.

Method Summary

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Modifier and Type	Method and Description	
int	<pre>getCurrentHeartRate()</pre>	
	Gets current heart rate from device.	

Method Detail

getCurrentHeartRate

int getCurrentHeartRate()

Gets current heart rate from device.

Returns:

Current heart rate.

Prev Class Next Class Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

com.example.heartrateadjuster

Class AudioSystemFake

java.lang.Object

com.example.heartrateadjuster.AudioSystemFake

All Implemented Interfaces:

IAudioSystem

public class AudioSystemFake
extends java.lang.Object
implements IAudioSystem

Implementation of IAudioSystem for faking Audio System with UI element.

Constructor Summary

Constructors

Constructor and Description

AudioSystemFake()

Method Summary

Methods

Modifier and Type	Method and Description
java.lang.String	<pre>getNowPlaying()</pre>
	Returns system time for a unique String.
void	<pre>setTargetHeartRate(int target)</pre>
	Sets the heart rate to be targeted by the system.
void	skipTrack()
	Skips the current track, begins playback of next.
void	togglePlayback()
	Toggles between playing and not playing.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait

Constructor Detail

AudioSystemFake

public AudioSystemFake()

Method Detail

getNowPlaying

public java.lang.String getNowPlaying()

Returns system time for a unique String.

Specified by:

getNowPlaying in interface IAudioSystem

Returns:

Current system time as String.

setTargetHeartRate

public void setTargetHeartRate(int target)

Description copied from interface: IAudioSystem

Sets the heart rate to be targeted by the system.

Specified by:

setTargetHeartRate in interface IAudioSystem

Parameters:

target - The new target

skipTrack

public void skipTrack()

Description copied from interface: IAudioSystem

Skips the current track, begins playback of next.

Specified by:

skipTrack in interface IAudioSystem

togglePlayback

public void togglePlayback()

Description copied from interface: IAudioSystem

Toggles between playing and not playing.

Specified by:

togglePlayback in interface IAudioSystem

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Prev Class Next Class Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

com.example.heartrateadjuster

Class ChestStrapFake

java.lang.Object

com.example.heartrateadjuster.ChestStrapFake

All Implemented Interfaces:

IHeartRateDevice

public class ChestStrapFake
extends java.lang.Object
implements IHeartRateDevice

Implementation of IHeartRateDevice for faking chest strap data with UI element.

Constructor Summary

Constructors

Constructor and Description

ChestStrapFake()

Method Summary

Methods

Modifier and Type	Method and Description
int	getCurrentHeartRate()
	Gets the internally stored heart rate measurement.
void	<pre>setCurrentHeartRate(int heartrate)</pre>
	Sets the internally stored heart rate measurement.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait

Constructor Detail

ChestStrapFake

public ChestStrapFake()

Method Detail

getCurrentHeartRate

public int getCurrentHeartRate()

Gets the internally stored heart rate measurement.

Specified by:

getCurrentHeartRate in interface IHeartRateDevice

Returns:

The internally stored heart rate measurement.

setCurrentHeartRate

public void setCurrentHeartRate(int heartrate)

Sets the internally stored heart rate measurement.

Parameters:

heartrate - The new heart rate.

Package Class Tree Help

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