

### Package edu.temple.simpletunes

### **Interface Summary**

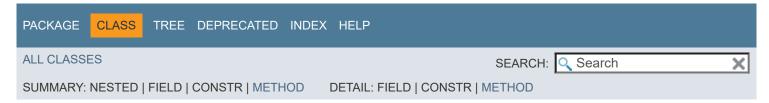
Interface	Description
MainActivity.OnClickInterface	The OnClickInterface is used to acquire the position of an item selected by passing into the playlistAdapter.

### **Class Summary**

Class	Description
AppNotificationChannel	The App class is used to create items that are global to the application lifecycle.
DocumentFileComparator	The DocumentFileComparator class is used to compare the filenames to be sorted in the correct order.
MainActivity	The MainActivity class is used to control the UI in the application and start the MediaPlayerService.
MediaPlayerService	MediaPlayerService is a service created to run the MediaPlayer instance in the background and bind to the controls of the media player.
PlaylistAdapter	The PlaylistAdapter class is used to control the views within the RecyclerView and allows new tracks to be shown and selected.
PlaylistAdapter.ViewHolder	Provide a reference to the type of views that you are using (custom ViewHolder).
TrackDataChangedEvent	The TrackDataChangedEvent is used by the event bus communicate with the MainActivity's UI when a new track position or playlist is used.

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Package edu.temple.simpletunes

### Interface MainActivity.OnClickInterface

### **Enclosing class:**

MainActivity

public static interface MainActivity.OnClickInterface

The OnClickInterface is used to acquire the position of an item selected by passing into the playlistAdapter.

# All Methods Instance Methods Abstract Methods Modifier and Type void itemClicked (int position) The position method is used to determine position of the item clicked.

### **Method Detail**

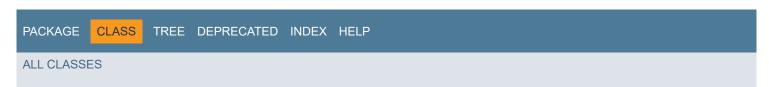
### itemClicked

void itemClicked(int position)

The position method is used to determine position of the item clicked.

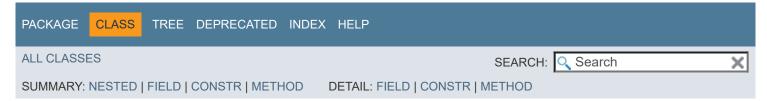
Parameters:

position - The position in the list.



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### Package edu.temple.simpletunes

### Class AppNotificationChannel

java.lang.Object
android.content.Context
android.content.ContextWrapper
android.app.Application
edu.temple.simpletunes.AppNotificationChannel

### All Implemented Interfaces:

android.content.ComponentCallbacks, android.content.ComponentCallbacks2

public class AppNotificationChannel
extends android.app.Application

The App class is used to create items that are global to the application lifecycle.

### Nested Class Summary

### Nested classes/interfaces inherited from class android.app.Application

android.app.Application.ActivityLifecycleCallbacks, android.app.Application.OnProvideAssistDataListener

### Field Summary

### **Fields**

Modifier and Type	Field	Description
static java.lang.String	CHANNEL_ID	

### Fields inherited from class android.content.Context

ACCESSIBILITY\_SERVICE, ACCOUNT\_SERVICE, ACTIVITY\_SERVICE, ALARM\_SERVICE, APP\_OPS\_SERVICE, APP\_SEARCH\_SERVICE, APPWIDGET\_SERVICE, AUDIO\_SERVICE, BATTERY\_SERVICE, BIND\_ABOVE\_CLIENT, BIND\_ADJUST\_WITH\_ACTIVITY, BIND\_ALLOW\_OOM\_MANAGEMENT, BIND\_AUTO\_CREATE, BIND\_DEBUG\_UNBIND,

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SEARCH: Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

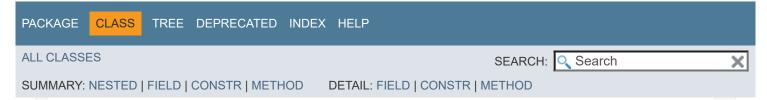
CONSUMER\_IR\_SERVICE, CONTEXT\_IGNORE\_SECURITY, CONTEXT\_INCLUDE\_CODE, CONTEXT\_RESTRICTED, CROSS\_PROFILE\_APPS\_SERVICE, DEVICE\_POLICY\_SERVICE, DISPLAY HASH SERVICE, DISPLAY SERVICE, DOMAIN VERIFICATION SERVICE, DOWNLOAD SERVICE, DROPBOX\_SERVICE, EUICC\_SERVICE, FILE\_INTEGRITY\_SERVICE, FINGERPRINT\_SERVICE, GAME\_SERVICE, HARDWARE\_PROPERTIES\_SERVICE, INPUT\_METHOD\_SERVICE, INPUT\_SERVICE, IPSEC SERVICE, JOB SCHEDULER SERVICE, KEYGUARD SERVICE, LAUNCHER APPS SERVICE, LAYOUT INFLATER SERVICE, LOCATION SERVICE, MEDIA COMMUNICATION SERVICE, MEDIA METRICS SERVICE, MEDIA PROJECTION SERVICE, MEDIA ROUTER SERVICE, MEDIA SESSION SERVICE, MIDI SERVICE, MODE APPEND, MODE ENABLE WRITE AHEAD LOGGING, MODE\_MULTI\_PROCESS, MODE\_NO\_LOCALIZED\_COLLATORS, MODE\_PRIVATE, MODE\_WORLD\_READABLE, MODE\_WORLD\_WRITEABLE, NETWORK\_STATS\_SERVICE, NFC\_SERVICE, NOTIFICATION\_SERVICE, NSD SERVICE, PEOPLE SERVICE, PERFORMANCE HINT SERVICE, POWER SERVICE, PRINT SERVICE, RECEIVER\_VISIBLE\_TO\_INSTANT\_APPS, RESTRICTIONS\_SERVICE, ROLE\_SERVICE, SEARCH\_SERVICE, SENSOR SERVICE, SHORTCUT SERVICE, STORAGE SERVICE, STORAGE STATS SERVICE, SYSTEM HEALTH SERVICE, TELECOM SERVICE, TELEPHONY IMS SERVICE, TELEPHONY SERVICE, TELEPHONY SUBSCRIPTION SERVICE, TEXT CLASSIFICATION SERVICE, TEXT\_SERVICES\_MANAGER\_SERVICE, TV\_INPUT\_SERVICE, UI\_MODE\_SERVICE, USAGE STATS SERVICE, USB SERVICE, USER SERVICE, VIBRATOR MANAGER SERVICE, VIBRATOR SERVICE, VPN MANAGEMENT SERVICE, WALLPAPER SERVICE, WIFI AWARE SERVICE, WIFI\_P2P\_SERVICE, WIFI\_RTT\_RANGING\_SERVICE, WIFI\_SERVICE, WINDOW\_SERVICE

### Fields inherited from interface android.content.ComponentCallbacks2

TRIM\_MEMORY\_BACKGROUND, TRIM\_MEMORY\_COMPLETE, TRIM\_MEMORY\_MODERATE, TRIM\_MEMORY\_RUNNING\_CRITICAL, TRIM\_MEMORY\_RUNNING\_LOW, TRIM\_MEMORY\_RUNNING\_MODERATE, TRIM MEMORY UI HIDDEN

## Constructor Summary Constructors Constructor Description AppNotificationChannel()

### Method Summary All Methods Instance Methods Concrete Methods



void onCreate()

### Methods inherited from class android.app.Application

getProcessName, onConfigurationChanged, onLowMemory, onTerminate, onTrimMemory, registerActivityLifecycleCallbacks, registerComponentCallbacks, registerOnProvideAssistDataListener, unregisterActivityLifecycleCallbacks, unregisterComponentCallbacks, unregisterOnProvideAssistDataListener

### Methods inherited from class android.content.ContextWrapper

attachBaseContext, bindIsolatedService, bindService, bindService, bindServiceAsUser, checkCallingOrSelfPermission, checkCallingOrSelfUriPermission, checkCallingOrSelfUriPermissions, checkCallingPermission, checkCallingUriPermission, checkCallingUriPermissions, checkPermission, checkSelfPermission, checkUriPermission, checkUriPermission, checkUriPermissions, clearWallpaper, createAttributionContext, createConfigurationContext, createContext, createContextForSplit, createDeviceProtectedStorageContext, createDisplayContext, createPackageContext, createWindowContext, createWindowContext, databaseList, deleteDatabase, deleteFile, deleteSharedPreferences, enforceCallingOrSelfPermission, enforceCallingOrSelfUriPermission, enforceCallingPermission, enforceCallingUriPermission, enforcePermission, enforceUriPermission, enforceUriPermission, fileList, getApplicationContext, getApplicationInfo, getAssets, getAttributionSource, getAttributionTag, getBaseContext, getCacheDir, getClassLoader, getCodeCacheDir, getContentResolver, getDatabasePath, getDataDir, getDir, getDisplay, getExternalCacheDir, getExternalCacheDirs, getExternalFilesDir, getExternalFilesDirs, getExternalMediaDirs, getFilesDir, getFileStreamPath, getMainExecutor, getMainLooper, getNoBackupFilesDir, getObbDir, getObbDirs, getOpPackageName, getPackageCodePath, getPackageManager, getPackageName, getPackageResourcePath, getParams, getResources, getSharedPreferences, getSystemService, getSystemServiceName, getTheme, getWallpaper, getWallpaperDesiredMinimumHeight, getWallpaperDesiredMinimumWidth, grantUriPermission, isDeviceProtectedStorage, isRestricted, isUiContext, moveDatabaseFrom, moveSharedPreferencesFrom, openFileInput, openFileOutput, openOrCreateDatabase, openOrCreateDatabase, peekWallpaper, registerReceiver, registerReceiver, registerReceiver, registerReceiver, removeStickyBroadcast, removeStickyBroadcastAsUser, revokeUriPermission, revokeUriPermission, sendBroadcast, sendBroadcast, sendBroadcastAsUser, sendBroadcastAsUser, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcastAsUser, sendStickyBroadcast, sendStickyBroadcast, sendStickyBroadcastAsUser, sendStickyOrderedBroadcast, sendStickyOrderedBroadcastAsUser, setTheme, setWallpaper, setWallpaper, startActivities, startActivities, startActivity, startActivity,

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obtainStyledAttributes, sendBroadcastWithMultiplePermissions

getColor, getColorStateList, getDrawable, getString, getString, getSystemService, getText, obtainStyledAttributes, obtainStyledAttributes, obtainStyledAttributes,

### Methods inherited from class java.lang.Object

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

### Field Detail

### CHANNEL\_ID

public static final java.lang.String CHANNEL\_ID

See Also:

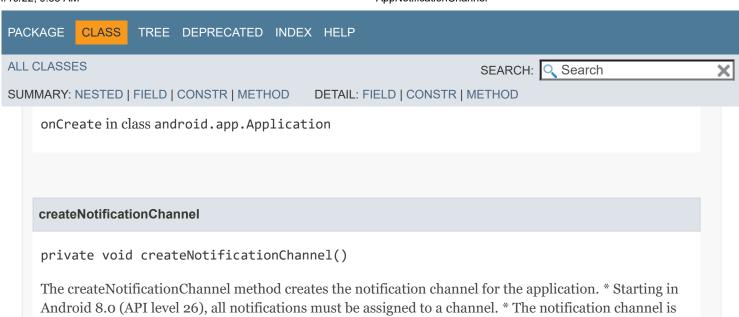
**Constant Field Values** 

### **Constructor Detail**

### **AppNotificationChannel**

public AppNotificationChannel()

### **Method Detail**



https://developer.android.com/training/notify-user/channels#:~:text=When%20you%20target%20Android%208.o,API%20level%2025)%20or%20lower.

used to set the visual and auditory behavior that is applied to \* all notifications in that channel. The users can change these settings and decide \* which notification channels should be intrusive or visible at all. \*

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### Package edu.temple.simpletunes

### Class DocumentFileComparator

java.lang.Object

edu.temple.simpletunes.DocumentFileComparator

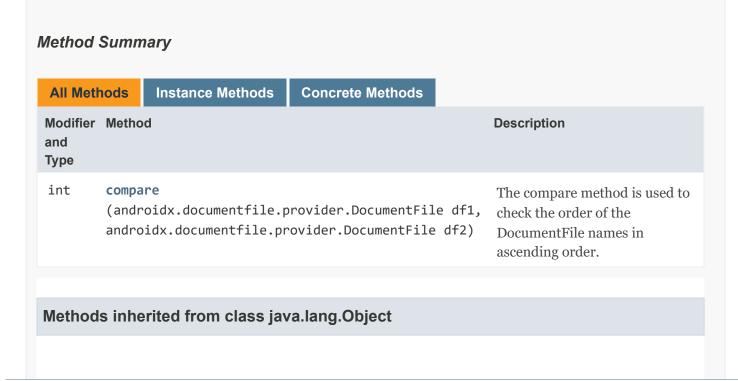
### All Implemented Interfaces:

java.util.Comparator<androidx.documentfile.provider.DocumentFile>

public class DocumentFileComparator
extends java.lang.Object
implements java.util.Comparator<androidx.documentfile.provider.DocumentFile>

The DocumentFileComparator class is used to compare the filenames to be sorted in the correct order.







methods inherited from interface java.util.∪omparator

equals, reversed, thenComparing, thenComparing, thenComparingDouble, thenComparingInt, thenComparingLong

### Constructor Detail

### **DocumentFileComparator**

public DocumentFileComparator()

### **Method Detail**

### compare

public int compare(androidx.documentfile.provider.DocumentFile df1, androidx.documentfile.provider.DocumentFile df2)

The compare method is used to check the order of the DocumentFile names in ascending order.

### Specified by:

compare in interface java.util.Comparator<androidx.documentfile.provider.DocumentFile>

### Parameters:

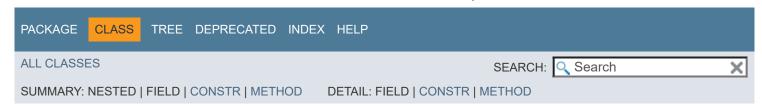
df1 - The first DocumentFile to compare.

df2 - The second DocumentFile to compare.

### Returns:

The result of the comparison.





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ALL CLASSES

SEARCH: Search

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### Package edu.temple.simpletunes

### **Class MainActivity**

java.lang.Object
android.content.Context
android.content.ContextWrapper
android.view.ContextThemeWrapper
android.app.Activity
androidx.core.app.ComponentActivity
androidx.activity.ComponentActivity
androidx.fragment.app.FragmentActivity
androidx.appcompat.app.AppCompatActivity
edu.temple.simpletunes.MainActivity

### All Implemented Interfaces:

android.content.ComponentCallbacks, android.content.ComponentCallbacks2, android.view.KeyEvent.Callback, android.view.LayoutInflater.Factory, android.view.LayoutInflater.Factory2, android.view.View.OnCreateContextMenuListener, android.view.Window.Callback, androidx.activity.contextaware.ContextAware, androidx.activity.OnBackPressedDispatcherOwner, androidx.activity.result.ActivityResultCaller, androidx.activity.result.ActivityResultRegistryOwner, androidx.appcompat.app.ActionBarDrawerToggle.DelegateProvider, androidx.appcompat.app.AppCompatCallback, androidx.core.app.ActivityCompat.OnRequestPermissionsResultCallback, androidx.core.app.ActivityCompat.RequestPermissionsRequestCodeValidator, androidx.core.app.TaskStackBuilder.SupportParentable, androidx.core.view.KeyEventDispatcher.Component, androidx.lifecycle.HasDefaultViewModelProviderFactory, androidx.lifecycle.LifecycleOwner, androidx.lifecycle.ViewModelStoreOwner, androidx.savedStateRegistryOwner

### public class MainActivity

extends androidx.appcompat.app.AppCompatActivity

The MainActivity class is used to control the UI in the application and start the MediaPlayerService.

### Nested Class Summary

### **Nested Classes**

Modifier and

Туре		
static interface	MainActivity.OnClickInterface	The OnClickInterface is used to acquire the position of an item selected by passing into the playlistAdapter.

Description

### Nested classes/interfaces inherited from class androidx.core.app.ComponentActivity

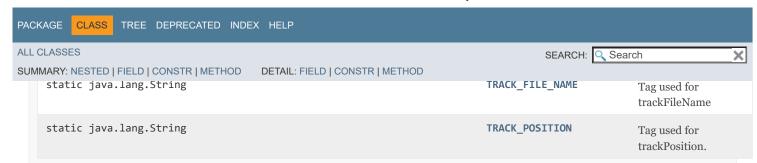
androidx.core.app.ComponentActivity.ExtraData

### Field Summary

### Fields

Modifier and Type	Field	Description
private static java.lang.String	ADAPTER DATA	

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				RecyclerView.	
	private int		currentTrackNum	The current track number being played.	
	<pre>private androidx.activity.result.Act</pre>	ivityResultLauncher <android.content.intent></android.content.intent>	folderLauncher	Used to launch the system file browser for folder play.	
	private boolean		isConnected	The connection state of the MediaPlayerService.	
	<pre>private androidx.activity.result.Act</pre>	ivityResultLauncher <android.content.intent></android.content.intent>	mActivityResultLauncher	Used to launch the system file browser for single track play.	
	private MediaPlayerService.C	ontrolsBinder	mAudioControlsBinder		
	private android.content.Serv	iceConnection	mServiceConnection		
	private android.content.Inte	nt	mServiceIntent	The intent used to start the MediaPlayerService.	
	private boolean		nightModeState	The current state of the system night mode.	
	private MainActivity.OnClick	Interface	onClickInterface	The interface used to track which position is clicked within the RecyclerView.	
	private java.lang.String		PLAY_STATE_KEY	Tag used for playState.	
	private PlaylistAdapter		playlistAdapter	The playListAdapter used for the RecyclerView.	
	private boolean		playState	The state showing if a track is playing.	
	private java.lang.String		REPEAT_STATE_KEY	Tag used for repeatState.	
	private int		repeatState	The state of repeat for folder or tracks.	
	private java.lang.String		SHUFFLE_STATE_KEY	Tag used for ShuffleState.	
	private boolean		shuffleState	The state of shuffle, 0 = no repeat, 1 = folder repeat, 2 = file repeat.	
	private static int		STORAGE_PERMISSION_CODE	Used to store the storage permission	



### Fields inherited from class android.app.Activity

DEFAULT\_KEYS\_DIALER, DEFAULT\_KEYS\_DISABLE, DEFAULT\_KEYS\_SEARCH\_GLOBAL, DEFAULT\_KEYS\_SEARCH\_LOCAL, DEFAULT\_KEYS\_SHORTCUT, FOCUSED\_STATE\_SET, RESULT\_CANCELED, RESULT\_FIRST\_USER, RESULT\_OK

### Fields inherited from class android.content.Context

ACCESSIBILITY SERVICE, ACCOUNT SERVICE, ACTIVITY SERVICE, ALARM SERVICE, APP OPS SERVICE, APP SEARCH SERVICE, APPWIDGET SERVICE, AUDIO SERVICE, BATTERY SERVICE, BIND ABOVE CLIENT, BIND ADJUST WITH ACTIVITY, BIND\_ALLOW\_OOM\_MANAGEMENT, BIND\_AUTO\_CREATE, BIND\_DEBUG\_UNBIND, BIND\_EXTERNAL\_SERVICE, BIND\_IMPORTANT, BIND INCLUDE CAPABILITIES, BIND NOT FOREGROUND, BIND NOT PERCEPTIBLE, BIND WAIVE PRIORITY, BIOMETRIC SERVICE, BLOB\_STORE\_SERVICE, BLUETOOTH\_SERVICE, BUGREPORT\_SERVICE, CAMERA\_SERVICE, CAPTIONING\_SERVICE, CARRIER\_CONFIG\_SERVICE, CLIPBOARD\_SERVICE, COMPANION\_DEVICE\_SERVICE, CONNECTIVITY\_DIAGNOSTICS\_SERVICE, CONNECTIVITY\_SERVICE, CONSUMER\_IR\_SERVICE, CONTEXT\_IGNORE\_SECURITY, CONTEXT\_INCLUDE\_CODE, CONTEXT\_RESTRICTED, CROSS\_PROFILE\_APPS\_SERVICE, DEVICE\_POLICY\_SERVICE, DISPLAY\_HASH\_SERVICE, DISPLAY\_SERVICE, DOMAIN VERIFICATION SERVICE, DOWNLOAD SERVICE, DROPBOX SERVICE, EUICC SERVICE, FILE INTEGRITY SERVICE, FINGERPRINT SERVICE, GAME SERVICE, HARDWARE PROPERTIES SERVICE, INPUT METHOD SERVICE, INPUT SERVICE, IPSEC\_SERVICE, JOB\_SCHEDULER\_SERVICE, KEYGUARD\_SERVICE, LAUNCHER\_APPS\_SERVICE, LAYOUT\_INFLATER\_SERVICE, LOCATION\_SERVICE, MEDIA\_COMMUNICATION\_SERVICE, MEDIA\_METRICS\_SERVICE, MEDIA\_PROJECTION\_SERVICE, MEDIA ROUTER SERVICE, MEDIA SESSION SERVICE, MIDI SERVICE, MODE APPEND, MODE ENABLE WRITE AHEAD LOGGING, MODE\_MULTI\_PROCESS, MODE\_NO\_LOCALIZED\_COLLATORS, MODE\_PRIVATE, MODE\_WORLD\_READABLE, MODE\_WORLD\_WRITEABLE, NETWORK\_STATS\_SERVICE, NFC\_SERVICE, NOTIFICATION\_SERVICE, NSD\_SERVICE, PEOPLE\_SERVICE, PERFORMANCE\_HINT\_SERVICE, POWER\_SERVICE, PRINT\_SERVICE, RECEIVER\_VISIBLE\_TO\_INSTANT\_APPS, RESTRICTIONS\_SERVICE, ROLE\_SERVICE, SEARCH\_SERVICE, SENSOR\_SERVICE, SHORTCUT\_SERVICE, STORAGE\_SERVICE, STORAGE STATS SERVICE, SYSTEM HEALTH SERVICE, TELECOM SERVICE, TELEPHONY IMS SERVICE, TELEPHONY SERVICE, TELEPHONY\_SUBSCRIPTION\_SERVICE, TEXT\_CLASSIFICATION\_SERVICE, TEXT\_SERVICES\_MANAGER\_SERVICE, TV\_INPUT\_SERVICE, UI MODE SERVICE, USAGE STATS SERVICE, USB SERVICE, USER SERVICE, VIBRATOR MANAGER SERVICE, VIBRATOR SERVICE, VPN\_MANAGEMENT\_SERVICE, WALLPAPER\_SERVICE, WIFI\_AWARE\_SERVICE, WIFI\_P2P\_SERVICE, WIFI\_RTT\_RANGING\_SERVICE, WIFI\_SERVICE, WINDOW\_SERVICE

### Fields inherited from interface android.content.ComponentCallbacks2

TRIM\_MEMORY\_BACKGROUND, TRIM\_MEMORY\_COMPLETE, TRIM\_MEMORY\_MODERATE, TRIM\_MEMORY\_RUNNING\_CRITICAL, TRIM\_MEMORY\_RUNNING\_LOW, TRIM\_MEMORY\_RUNNING\_MODERATE, TRIM\_MEMORY\_UI\_HIDDEN

### Constructors Constructor Constructor Description

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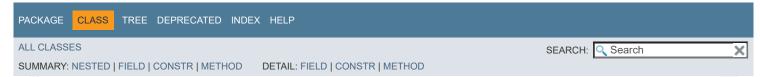
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DETAIL: FIELD | CONSTR | METHOD

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and Type			
boolean	<pre>checkPermission(java.lang int requestCode)</pre>	g.String permission,	The checkPermission function is used to check what permissions have been granted previously.
void	handleTrackDataChange(Tr	ackDataChangedEvent event)	The handleTrackedDataChange method will be called when either the track position changes or the playlist is updated in the MediaPlayerService.
private void	mediaPlayerNext()		The mediaPlayerNext method is used to skip to the next track in the file.
private boolean	mediaPlayerPauseOrStart(	)	The mediaPlayerPauseOrStart method is used to pause the current track or start from the paused position.
private void	mediaPlayerPlay(android.	net.Uri myUri)	The mediaPlayerPlay method is used to start the MediaPlayerService and also play the associated Uri.
private void	<pre>mediaPlayerPlayFolder (androidx.documentfile.p</pre>	rovider.DocumentFile[] folder)	The mediaPlayerPlayFolder plays the entire folder found in a DocumentFile array.
private void	mediaPlayerPrev()		The mediaPlayerPrev method is used to skip to the previously played track in the file.
private int	mediaPlayerRepeat()		The mediaPlayerRepeat method sets the MediaPlayerService into repeat mode.
private boolean	mediaPlayerShuffle()		The mediaPlayerShuffle method is used to set the mediaPlayerService shuffle state.
protected void	<pre>onCreate(android.os.Bund</pre>	le savedInstanceState)	The onCreate method is called when the activity is started.
protected void	onDestroy()		The onDestroy method is called before the activity is destroyed and used to unbind and stop the service.
void	<pre>onRequestPermissionsResu java.lang.String[] permi</pre>	<pre>lt(int requestCode, ssions, int[] grantResults)</pre>	The onRequestPermissionResult method is called to verify permission was granted to access storage on the device.
protected void	<pre>onRestoreInstanceState (android.os.Bundle saved</pre>	InstanceState)	The onRestoreInstanceState is called before the activity is resumed and sets instance variables back to previous state.
protected void	onResume()		The onResume method is called after the activity is created and used to initialize and control the UI elements.
protected void	onSaveInstanceState(andr	oid.os.Bundle outState)	The onSavedInstanceState method is called before the activity is destroyed to save any variables that are needed after onCreate on restart.
protected void	onStart()		The onStart method is called after the activity is created and is used to register the EventBus.
protected void	onStop()		The onStop method is called before the activity is stopped and used to unregister the EventBus.
private void	updateNightMode()		The updateNightMode method will set the nightModeState variable to true or false if the system



private void	<pre>updateRepeatButton(int status)</pre>	The updateRepeatButton method sets the image resource according to night mode being on/off and if the media player is currently in a repeat state.
private void	<pre>updateShuffleButton(boolean status)</pre>	The updateShuffleButton method sets the image resource according to night mode being on/off and if the playlist is currently in a shuffle state.

### Methods inherited from class androidx.appcompat.app.AppCompatActivity

addContentView, attachBaseContext, closeOptionsMenu, dispatchKeyEvent, findViewById, getDelegate, getDrawerToggleDelegate, getMenuInflater, getResources, getSupportActionBar, getSupportParentActivityIntent, invalidateOptionsMenu, onConfigurationChanged, onContentChanged, onCreateSupportNavigateUpTaskStack, onKeyDown, onMenuItemSelected, onMenuOpened, onNightModeChanged, onPanelClosed, onPostCreate, onPostResume, onPrepareSupportNavigateUpTaskStack, onSupportActionModeFinished, onSupportActionModeStarted, onSupportContentChanged, onSupportNavigateUp, onTitleChanged, onWindowStartingSupportActionMode, openOptionsMenu, setContentView, setContentView, setSupportActionBar, setSupportProgress, setSupportProgressBarIndeterminate, setSupportProgressBarIndeterminateVisibility, setSupportProgressBarVisibility, setTheme, startSupportActionMode, supportInvalidateOptionsMenu, supportNavigateUpTo, supportRequestWindowFeature, supportShouldUpRecreateTask

### Methods inherited from class androidx.fragment.app.FragmentActivity

dump, getSupportFragmentManager, getSupportLoaderManager, onActivityResult, onAttachFragment, onCreatePanelMenu, onCreateView, onCreateView, onLowMemory, onMultiWindowModeChanged, onNewIntent, onPause, onPictureInPictureModeChanged, onPrepareOptionsPanel, onPreparePanel, onResumeFragments, onStateNotSaved, setEnterSharedElementCallback, setExitSharedElementCallback, startActivityFromFragment, startIntentSenderFromFragment, supportFinishAfterTransition, supportPostponeEnterTransition, supportStartPostponedEnterTransition, validateRequestPermissionsRequestCode

### Methods inherited from class androidx.activity.ComponentActivity

addOnContextAvailableListener, getActivityResultRegistry, getDefaultViewModelProviderFactory, getLastCustomNonConfigurationInstance, getLifecycle, getOnBackPressedDispatcher, getSavedStateRegistry, getViewModelStore, onBackPressed, onRetainCustomNonConfigurationInstance, onRetainNonConfigurationInstance, peekAvailableContext, registerForActivityResult, registerForActivityResult, removeOnContextAvailableListener, reportFullyDrawn, startActivityForResult, startActivityForResult, startIntentSenderForResult, startIntentSenderForResult

### Methods inherited from class androidx.core.app.ComponentActivity

dispatchKeyShortcutEvent, getExtraData, putExtraData, superDispatchKeyEvent

### Methods inherited from class android.app.Activity

closeContextMenu, createPendingResult, dismissDialog, dismissKeyboardShortcutsHelper, dispatchGenericMotionEvent, dispatchPopulateAccessibilityEvent, dispatchTouchEvent, dispatchTrackballEvent, enterPictureInPictureMode, enterPictureInPictureMode, finish, finishActivity, finishActivityFromChild, finishAffinity, finishAfterTransition, finishAndRemoveTask, finishFromChild, getActionBar, getApplication, getCallingActivity, getCallingPackage, getChangingConfigurations, getComponentName, getContentScene, getContentTransitionManager, getCurrentFocus, getFragmentManager, getIntent, getLastNonConfigurationInstance,

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SEARCH: SEARCH:

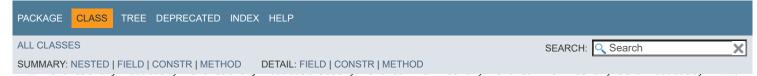
 $is In Picture In Picture Mode, \ is Launched From Bubble, \ is Local Voice Interaction Supported, \ is Task Root, \ is the picture of the p$ isVoiceInteraction, isVoiceInteractionRoot, managedQuery, moveTaskToBack, navigateUpTo, navigateUpToFromChild, onActionModeFinished, onActionModeStarted, onActivityReenter, onApplyThemeResource, onAttachedToWindow, onAttachFragment, onChildTitleChanged, onContextItemSelected, onContextMenuClosed, onCreate, onCreateContextMenu, onCreateDescription, onCreateDialog, onCreateDialog, onCreateNavigateUpTaskStack, onCreateOptionsMenu, onCreatePanelView, onCreateThumbnail, onDetachedFromWindow, onEnterAnimationComplete, onGenericMotionEvent, onGetDirectActions, onKeyLongPress, onKeyMultiple, onKeyShortcut, onKeyUp,  $on Local Voice Interaction Started, \ on Local Voice Interaction Stopped, \ on MultiWindow Mode Changed, \ on Navigate Up, and the started of the Navigate Up, and the started of the Stopped of the St$ onNavigateUpFromChild, onOptionsItemSelected, onOptionsMenuClosed, onPerformDirectAction, onPictureInPictureModeChanged, onPictureInPictureRequested, onPictureInPictureUiStateChanged, onPostCreate, onPrepareDialog, onPrepareDialog, onPrepareNavigateUpTaskStack, onPrepareOptionsMenu, onProvideAssistContent, onProvideAssistData, onProvideKeyboardShortcuts, onProvideReferrer, onRestart, onRestoreInstanceState, onSaveInstanceState, onSearchRequested, onSearchRequested, onTopResumedActivityChanged, onTouchEvent, onTrackballEvent, onTrimMemory, onUserInteraction, onUserLeaveHint, onVisibleBehindCanceled, onWindowAttributesChanged, onWindowFocusChanged, onWindowStartingActionMode, onWindowStartingActionMode, openContextMenu, overridePendingTransition, postponeEnterTransition, recreate, registerActivityLifecycleCallbacks, registerForContextMenu, releaseInstance, removeDialog, requestDragAndDropPermissions, requestPermissions, requestShowKeyboardShortcuts, requestVisibleBehind, requestWindowFeature, requireViewById, runOnUiThread, setActionBar, setContentTransitionManager, setDefaultKeyMode, setEnterSharedElementCallback, setExitSharedElementCallback, setFeatureDrawable, setFeatureDrawableAlpha, setFeatureDrawableResource, setFeatureDrawableUri, setFinishOnTouchOutside, setImmersive, setInheritShowWhenLocked, setIntent, setLocusContext, setMediaController, setPictureInPictureParams, setProgress, setProgressBarIndeterminate, setProgressBarIndeterminateVisibility, setProgressBarVisibility, setRequestedOrientation, setResult, setResult, setSecondaryProgress, setShowWhenLocked, setTaskDescription, setTitle, setTitle, setTitleColor, setTranslucent, setTurnScreenOn, setVisible, setVolumeControlStream, setVrModeEnabled, shouldShowRequestPermissionRationale, shouldUpRecreateTask, showAssist, showDialog, showDialog, showLockTaskEscapeMessage, startActionMode, startActionMode, startActivities, startActivities, startActivity, startActivity, startActivityFromChild, startActivityFromChild, startActivityFromFragment, startActivityFromFragment, startActivityIfNeeded, startActivityIfNeeded, startIntentSender, startIntentSender, startIntentSenderFromChild, startIntentSenderFromChild, startLocalVoiceInteraction, startLockTask, startManagingCursor,  $startNextMatchingActivity,\ startNextMatchingActivity,\ startPostponedEnterTransition,\ startSearch,$ stopLocalVoiceInteraction, stopLockTask, stopManagingCursor, takeKeyEvents, triggerSearch,  $unregister Activity Life cycle Callbacks, \ unregister For Context Menu$ 

### Methods inherited from class android.view.ContextThemeWrapper

 ${\it apply} Override Configuration, \ {\it getAssets}, \ {\it getTheme}, \ {\it setTheme}$ 

### Methods inherited from class android.content.ContextWrapper

bindIsolatedService, bindService, bindService, bindServiceAsUser, checkCallingOrSelfPermission, checkCallingOrSelfUriPermission, checkCallingOrSelfUriPermissions, checkCallingPermission, checkCallingUriPermission, checkCallingUriPermissions, checkPermission, checkSelfPermission, checkUriPermission, checkUriPermission, checkUriPermissions, clearWallpaper, createAttributionContext, createConfigurationContext, createContext, createContextForSplit, createDeviceProtectedStorageContext, createDisplayContext, createPackageContext, createWindowContext, createWindowContext, databaseList, deleteDatabase, deleteFile, deleteSharedPreferences, enforceCallingOrSelfPermission, enforcePermission, enforceCallingOrSelfUriPermission, enforceCallingPermission, enforceCallingOrSelfUriPermission, enforceCallingPermission, enforceUriPermission, fileList, getApplicationContext, getApplicationInfo, getAttributionSource, getAttributionTag, getBaseContext, getCacheDir, getClassLoader, getCodeCacheDir, getContentResolver, getDatabasePath, getDataDir, getDir, getDisplay, getExternalCacheDir, getExternalCacheDirs, getExternalFilesDir, getExternalFilesDir, getExternalMediaDirs, getFilesDir, getFileStreamPath, getMainExecutor, getMainLooper, getNoBackupFilesDir, getObbDir, getObbDirs, getOpPackageName, getPackageCodePath, getPackageManager, getPackageName, getPackageResourcePath, getParams,



sendBroadcast, sendBroadcastAsUser, sendBroadcastAsUser, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcast, sendStickyBroadcast, sendStickyBroadcast, sendStickyBroadcastAsUser, sendStickyOrderedBroadcast, sendStickyOrderedBroadcast, sendStickyOrderedBroadcastAsUser, setWallpaper, setWallpaper, startForegroundService, startInstrumentation, startService, stopService, unbindService, unregisterReceiver, updateServiceGroup

### Methods inherited from class android.content.Context

getColor, getColorStateList, getDrawable, getString, getString, getSystemService, getText,
obtainStyledAttributes, obtainStyledAttributes, obtainStyledAttributes, obtainStyledAttributes,
registerComponentCallbacks, sendBroadcastWithMultiplePermissions, unregisterComponentCallbacks

### Methods inherited from class java.lang.Object

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

### Methods inherited from interface android.view.Window.Callback

onPointerCaptureChanged

### Field Detail

### ADAPTER DATA

private static final java.lang.String ADAPTER\_DATA

Tag used for PlayListAdapterData.

See Also:

Constant Field Values

### **TAG**

private final java.lang.String TAG

Tag used for MainActivity.

See Also:

Constant Field Values

### REPEAT\_STATE\_KEY

private final java.lang.String REPEAT\_STATE\_KEY

Tag used for repeatState.

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: Q Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

### SHUFFLE\_STATE\_KEY

private final java.lang.String SHUFFLE\_STATE\_KEY

Tag used for ShuffleState.

See Also:

Constant Field Values

### PLAY\_STATE\_KEY

private final java.lang.String PLAY\_STATE\_KEY

Tag used for playState.

See Also:

Constant Field Values

### TRACK\_POSITION

public static final java.lang.String TRACK\_POSITION

Tag used for trackPosition.

See Also:

Constant Field Values

### mActivityResultLauncher

private androidx.activity.result.ActivityResultLauncher<android.content.Intent> mActivityResultLauncher
Used to launch the system file browser for single track play.

### folderLauncher

private androidx.activity.result.ActivityResultLauncher<android.content.Intent> folderLauncher
Used to launch the system file browser for folder play.

### TRACK\_FILE\_NAME

public static final java.lang.String TRACK\_FILE\_NAME

Tag used for trackFileName

See Also:

Constant Field Values

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

private static final int STORAGE\_PERMISSION\_CODE

Used to store the storage permission code 101.

### See Also:

Constant Field Values

### mServiceIntent

private android.content.Intent mServiceIntent

The intent used to start the MediaPlayerService.

### repeatState

private int repeatState

The state of repeat for folder or tracks.

### shuffleState

private boolean shuffleState

The state of shuffle, 0 = no repeat, 1 = folder repeat, 2 = file repeat.

### playState

private boolean playState

The state showing if a track is playing.

### playlistAdapter

private PlaylistAdapter playlistAdapter

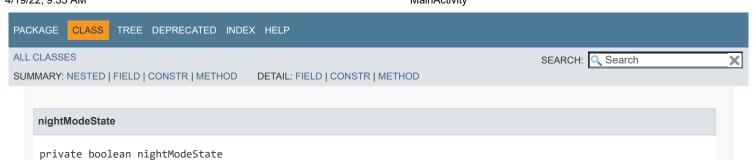
The playListAdapter used for the RecyclerView.

### adapterData

private java.util.List<java.lang.String> adapterData

The list used to populate the Recycler View.  $\,$ 

### onClickInterface



### currentTrackNum

private int currentTrackNum

The current track number being played.

The current state of the system night mode.

### isConnected

private boolean isConnected

The connection state of the MediaPlayerService.

### mAudioControlsBinder

private MediaPlayerService.ControlsBinder mAudioControlsBinder

### mServiceConnection

private final android.content.ServiceConnection mServiceConnection

### **Constructor Detail**

### MainActivity

public MainActivity()

### **Method Detail**

### onCreate

protected void onCreate(android.os.Bundle savedInstanceState)



waramoiors:

savedInstanceState - The Bundle that was previously destroyed or null if first start.

### onStart

protected void onStart()

The onStart method is called after the activity is created and is used to register the EventBus.

### Overrides:

onStart in class androidx.appcompat.app.AppCompatActivity

### checkPermission

public boolean checkPermission(java.lang.String permission, int requestCode)

The checkPermission function is used to check what permissions have been granted previously.

### Parameters:

permission - The permission to check.

requestCode - The requestCode of the permission being checked.

### Returns

True if permission is granted and false otherwise.

### onRequestPermissionsResult

public void onRequestPermissionsResult(int requestCode, @NonNull java.lang.String[] permissions, @NonNull
int[] grantResults)

The onRequestPermissionResult method is called to verify permission was granted to access storage on the device.

### Specified by:

 $on Request Permissions Result\ in\ interface\ and roid \texttt{x.core.app.ActivityCompat.On} Request Permissions Result Callback$ 

### Overrides:

onRequestPermissionsResult in class androidx.fragment.app.FragmentActivity

### Parameters:

 $\verb"requestCode" - The code relating to permission storage.$ 

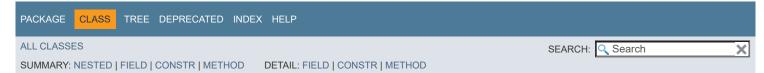
permissions - The requested permissions. Never null.

grantResults - The results of the permission granted. Never null.

### onResume

protected void onResume()

The onResume method is called after the activity is created and used to initialize and control the UI elements.



### onRestoreInstanceState

protected void onRestoreInstanceState(@NonNull android.os.Bundle savedInstanceState)

The onRestoreInstanceState is called before the activity is resumed and sets instance variables back to previous state.

### Overrides:

onRestoreInstanceState in class android.app.Activity

### Parameters:

savedInstanceState - The bundle containing saved instance variables.

### onSaveInstanceState

protected void onSaveInstanceState(@NonNull android.os.Bundle outState)

The onSavedInstanceState method is called before the activity is destroyed to save any variables that are needed after onCreate on restart.

### Overrides:

onSaveInstanceState in class androidx.activity.ComponentActivity

### Parameters:

outState - The bundle containing instance variables.

### updateNightMode

private void updateNightMode()

The updateNightMode method will set the nightModeState variable to true or false if the system night mode is active.

### updateRepeatButton

private void updateRepeatButton(int status)

The updateRepeatButton method sets the image resource according to night mode being on/off and if the media player is currently in a repeat state.

### Parameters:

status - The current state of repeat.

### updateShuffleButton

private void updateShuffleButton(boolean status)

The updateShuffleButton method sets the image resource according to night mode being on/off and if the playlist is currently in a shuffle state.

Parameters:

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: Q Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

### updatePlayButton

private void updatePlayButton(boolean isPlaying)

The updatePlayButton method sets the image resource according to night mode being on/off and if the track is currently playing.

### Parameters:

isPlaying - The current state of the track.

### mediaPlayerPrev

private void mediaPlayerPrev()

The mediaPlayerPrev method is used to skip to the previously played track in the file.

### mediaPlayerNext

private void mediaPlayerNext()

The mediaPlayerNext method is used to skip to the next track in the file.

### mediaPlayerPauseOrStart

private boolean mediaPlayerPauseOrStart()

The mediaPlayerPauseOrStart method is used to pause the current track or start from the paused position. Checks if service is bound first.

### Returns:

True if the media is playing, false otherwise.

### mediaPlayerPlay

private void mediaPlayerPlay(android.net.Uri myUri)

The mediaPlayerPlay method is used to start the MediaPlayerService and also play the associated Uri.

### Parameters:

myUri - The Uri to start playing.

### mediaPlayerPlayFolder

private void mediaPlayerPlayFolder(androidx.documentfile.provider.DocumentFile[] folder)

The mediaPlayerPlayFolder plays the entire folder found in a DocumentFile array. Stops after last file is completed playing.

### Parameters:

folder - The DocumentFile array to play all audio files from.

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: SEARCH: Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

private int mediaPlayerRepeat()

The mediaPlayerRepeat method sets the MediaPlayerService into repeat mode.

### Returns:

The state of the repeat, 0 = no repeat, 1 = folder repeat, 2 = file repeat.

### mediaPlayerShuffle

private boolean mediaPlayerShuffle()

The mediaPlayerShuffle method is used to set the mediaPlayerService shuffle state.

### Returns

True if shuffle is on and false otherwise.

### handleTrackDataChange

@Subscribe public void handleTrackDataChange(TrackDataChangedEvent event)

The handleTrackedDataChange method will be called when either the track position changes or the playlist is updated in the MediaPlayerService.

### Parameters:

 ${\tt event-The\ TrackDataChangedEvent\ object\ that\ has\ changed.\ Contains\ playlist\ and\ current\ track\ number.}$ 

### onStop

protected void onStop()

The onStop method is called before the activity is stopped and used to unregister the EventBus.

### Overrides:

onStop in class androidx.appcompat.app.AppCompatActivity

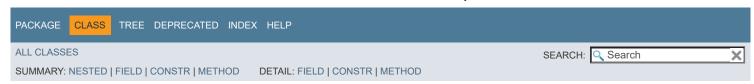
### onDestroy

protected void onDestroy()

The onDestroy method is called before the activity is destroyed and used to unbind and stop the service.

### Overrides:

onDestroy in class androidx.appcompat.app.AppCompatActivity





### Package edu.temple.simpletunes

### Class MediaPlayerService

java.lang.Object
android.content.Context
android.content.ContextWrapper
android.app.Service
edu.temple.simpletunes.MediaPlayerService

### All Implemented Interfaces:

 $and \verb"roid.content.ComponentCallbacks", and \verb"roid.content.ComponentCallbacks" 2$ 

public class MediaPlayerService
extends android.app.Service

MediaPlayerService is a service created to run the MediaPlayer instance in the background and bind to the controls of the media player.

### Nested Class Summary Nested Classes Modifier and Type Class Description class MediaPlayerService.ControlsBinder Class to control media player instance through a Binder.

### Field Summary

Fields		
Modifier and Type	Field	Description
private android.net.Uri	currentTrack	The current track's Uri that is being played.
private MediaPlayerService.ControlsBinder	mControlsBinder	The binder used to control the service.
private int	mCurrentFolderIndex	The current index of a track being played within a folder.
<pre>private androidx.documentfile.provider.DocumentFile[]</pre>	mFolder	The original folder used for the playlist.
private boolean	mIsPlayingFolder	The state of a folder being played.
private android.media.MediaPlayer	mMediaPlayer	The MediaPlayer api used to play tracks within the service.
private android.app.NotificationManager	mNotificationManager	The notification manager for the foreground notification.
static int	NOTIFICATION_ID	ID used for the notification.
private int	repeatStatus	The repeat status, $0 = \text{no}$ repeat, $1 = \text{folder}$ repeat, $2 = \text{file}$ repeat

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: SEARCH: SEARCH: SEARCH: SEARCH: Tag for the service.

### Fields inherited from class android.app.Service

START\_CONTINUATION\_MASK, START\_FLAG\_REDELIVERY, START\_FLAG\_RETRY, START\_NOT\_STICKY, START\_REDELIVER\_INTENT, START\_STICKY, START\_STICKY\_COMPATIBILITY, STOP\_FOREGROUND\_DETACH, STOP\_FOREGROUND\_REMOVE

### Fields inherited from class android.content.Context

ACCESSIBILITY SERVICE, ACCOUNT SERVICE, ACTIVITY SERVICE, ALARM SERVICE, APP OPS SERVICE, APP\_SEARCH\_SERVICE, APPWIDGET\_SERVICE, AUDIO\_SERVICE, BATTERY\_SERVICE, BIND\_ABOVE\_CLIENT, BIND\_ADJUST\_WITH\_ACTIVITY, BIND\_ALLOW\_OOM\_MANAGEMENT, BIND\_AUTO\_CREATE, BIND\_DEBUG\_UNBIND, BIND EXTERNAL SERVICE, BIND IMPORTANT, BIND INCLUDE CAPABILITIES, BIND NOT FOREGROUND, BIND NOT PERCEPTIBLE, BIND WAIVE PRIORITY, BIOMETRIC SERVICE, BLOB STORE SERVICE, BLUETOOTH SERVICE, BUGREPORT SERVICE, CAMERA\_SERVICE, CAPTIONING\_SERVICE, CARRIER\_CONFIG\_SERVICE, CLIPBOARD\_SERVICE, COMPANION\_DEVICE\_SERVICE, CONNECTIVITY DIAGNOSTICS SERVICE, CONNECTIVITY SERVICE, CONSUMER IR SERVICE, CONTEXT IGNORE SECURITY, CONTEXT\_INCLUDE\_CODE, CONTEXT\_RESTRICTED, CROSS\_PROFILE\_APPS\_SERVICE, DEVICE\_POLICY\_SERVICE, DISPLAY HASH SERVICE, DISPLAY SERVICE, DOMAIN VERIFICATION SERVICE, DOWNLOAD SERVICE, DROPBOX SERVICE, EUICC\_SERVICE, FILE\_INTEGRITY\_SERVICE, FINGERPRINT\_SERVICE, GAME\_SERVICE, HARDWARE\_PROPERTIES\_SERVICE, INPUT METHOD SERVICE, INPUT SERVICE, IPSEC SERVICE, JOB SCHEDULER SERVICE, KEYGUARD SERVICE, LAUNCHER\_APPS\_SERVICE, LAYOUT\_INFLATER\_SERVICE, LOCATION\_SERVICE, MEDIA\_COMMUNICATION\_SERVICE, MEDIA METRICS SERVICE, MEDIA PROJECTION SERVICE, MEDIA ROUTER SERVICE, MEDIA SESSION SERVICE, MIDI SERVICE, MODE\_APPEND, MODE\_ENABLE\_WRITE\_AHEAD\_LOGGING, MODE\_MULTI\_PROCESS, MODE\_NO\_LOCALIZED\_COLLATORS, MODE\_PRIVATE, MODE\_WORLD\_READABLE, MODE\_WORLD\_WRITEABLE, NETWORK\_STATS\_SERVICE, NFC\_SERVICE, NOTIFICATION\_SERVICE, NSD SERVICE, PEOPLE SERVICE, PERFORMANCE HINT SERVICE, POWER SERVICE, PRINT SERVICE, RECEIVER VISIBLE TO INSTANT APPS, RESTRICTIONS SERVICE, ROLE SERVICE, SEARCH SERVICE, SENSOR SERVICE, SHORTCUT\_SERVICE, STORAGE\_SERVICE, STORAGE\_STATS\_SERVICE, SYSTEM\_HEALTH\_SERVICE, TELECOM\_SERVICE, TELEPHONY IMS SERVICE, TELEPHONY SERVICE, TELEPHONY SUBSCRIPTION SERVICE, TEXT CLASSIFICATION SERVICE, TEXT\_SERVICES\_MANAGER\_SERVICE, TV\_INPUT\_SERVICE, UI\_MODE\_SERVICE, USAGE\_STATS\_SERVICE, USB\_SERVICE, USER\_SERVICE, VIBRATOR\_MANAGER\_SERVICE, VIBRATOR\_SERVICE, VPN\_MANAGEMENT\_SERVICE, WALLPAPER\_SERVICE, WIFI AWARE SERVICE, WIFI P2P SERVICE, WIFI RTT RANGING SERVICE, WIFI SERVICE, WINDOW SERVICE

### Fields inherited from interface android.content.ComponentCallbacks2

TRIM\_MEMORY\_BACKGROUND, TRIM\_MEMORY\_COMPLETE, TRIM\_MEMORY\_MODERATE, TRIM\_MEMORY\_RUNNING\_CRITICAL, TRIM\_MEMORY\_RUNNING\_LOW, TRIM\_MEMORY\_RUNNING\_MODERATE, TRIM\_MEMORY\_UI\_HIDDEN

### Constructor Summary Constructors Constructor Description MediaPlayerService()

### Method Summary

All Methods

**Instance Methods** 

**Concrete Methods** 



PACKAGE CLASS TREE DEPRECATED INDE	X HELP	
ALL CLASSES SUMMARY: NESTED   FIELD   CONSTR   METHOD	DETAIL: FIELD   CONSTR   METHOD	SEARCH: Search
		track is completed using onCompletionListener in onCreate().
private void	playNext()	The playNext method checks if a track is being played from a folder.
private void	playPrev()	The playPrev method checks if a track is being played from a folder.
private void	<pre>playSingleTrack(android.net.Uri uri)</pre>	The play method will play the Uri passed in if it contains music content.
private int	repeat()	The repeat method will set the MediaPlayerService into a mode where each track or folder is repeated upon completion.
private void	resume()	The resume method seeks to the current position of audio file and starts playing after pause is called.
private boolean	shuffle()	The shuffle method will re-order the folder that is being played into a random order.
private void	stop()	The stop method will stop the currently playing audio file.

### Methods inherited from class android.app.Service

attachBaseContext, dump, getApplication, getForegroundServiceType, onConfigurationChanged, onLowMemory, onRebind, onStart, onTaskRemoved, onTrimMemory, onUnbind, startForeground, startForeground, stopForeground, stopForeground, stopSelf, stopSelf, stopSelfResult

### Methods inherited from class android.content.ContextWrapper

bindIsolatedService, bindService, bindService, bindServiceAsUser, checkCallingOrSelfPermission, checkCallingOrSelfUriPermissions, checkCallingOrSelfUriPermissions, checkCallingPermission, checkCallingUriPermissions, checkPermission, checkSelfPermission, checkUriPermission, checkUriPermission, checkUriPermission, checkUriPermissions, checkUriPe

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: SEARCH:

getAttributionSource, getAttributionTag, getBaseContext, getCacheDir, getClassLoader, getCodeCacheDir, getContentResolver, getDatabasePath, getDataDir, getDir, getDisplay, getExternalCacheDir, getExternalCacheDirs, getExternalFilesDir, getExternalFilesDirs, getExternalMediaDirs, getFilesDir, getFileStreamPath, getMainExecutor, getMainLooper, getNoBackupFilesDir, getObbDir, getObbDirs, getOpPackageName, getPackageCodePath, getPackageManager, getPackageName, getPackageResourcePath, getParams, getResources, getSharedPreferences, getSystemService, getSystemServiceName, getTheme, getWallpaper, getWallpaperDesiredMinimumHeight, getWallpaperDesiredMinimumWidth, grantUriPermission, isDeviceProtectedStorage, isRestricted, isUiContext, moveDatabaseFrom, moveSharedPreferencesFrom, openFileInput, openFileOutput, openOrCreateDatabase, openOrCreateDatabase, peekWallpaper, registerReceiver, registerReceiver, registerReceiver, registerReceiver, removeStickyBroadcast, removeStickyBroadcastAsUser, revokeUriPermission, revokeUriPermission, sendBroadcast, sendBroadcast, sendBroadcastAsUser, sendBroadcastAsUser, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcastAsUser, sendStickyBroadcast, sendStickyBroadcast, sendStickyBroadcastAsUser, sendStickyOrderedBroadcast, sendStickyOrderedBroadcastAsUser, setTheme, setWallpaper, setWallpaper, startActivities, startActivities, startActivity, startActivity, startForegroundService,  $startInstrumentation, \ startIntentSender, \ startIntentSender, \ startService, \ stopService, \ unbindService, \ startIntentSender, \ startIntentSender, \ startService, \ stopService, \ unbindService, \ startIntentSender, \ startIntentSender, \ startService, \ stopService, \ unbindService, \ startIntentSender, \ startIn$ unregisterReceiver, updateServiceGroup

### Methods inherited from class android.content.Context

getColor, getColorStateList, getDrawable, getString, getString, getSystemService, getText, obtainStyledAttributes, obtainStyledAttributes, obtainStyledAttributes, registerComponentCallbacks, sendBroadcastWithMultiplePermissions, unregisterComponentCallbacks

### Methods inherited from class java.lang.Object

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

### Field Detail

### mControlsBinder

private final MediaPlayerService.ControlsBinder mControlsBinder

The binder used to control the service.

### mMediaPlayer

private final android.media.MediaPlayer mMediaPlayer

The MediaPlayer api used to play tracks within the service.

### TAG

private static final java.lang.String TAG

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

### NOTIFICATION\_ID

public static final int NOTIFICATION\_ID

ID used for the notification.

### See Also:

Constant Field Values

### mlsPlayingFolder

private boolean mIsPlayingFolder

The state of a folder being played.

### mFolder

private androidx.documentfile.provider.DocumentFile[] mFolder

The original folder used for the playlist.

### shuffledFolder

private androidx.documentfile.provider.DocumentFile[] shuffledFolder

The shuffled folder for the playlist.

### mCurrentFolderIndex

private int mCurrentFolderIndex

The current index of a track being played within a folder.

### mNotificationManager

private android.app.NotificationManager mNotificationManager

The notification manager for the foreground notification.

### shuffleOn

private boolean shuffleOn

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD | DETAIL: FIELD | CONSTR | METHOD

private int repeatStatus

The repeat status, 0 = no repeat, 1 = folder repeat, 2 = file repeat

### currentTrack

private android.net.Uri currentTrack

The current track's Uri that is being played.

### Constructor Detail

### MediaPlayerService

public MediaPlayerService()

### Method Detail

### onCreate

public void onCreate()

The onCreate method is called when the service is started and is used to control playback when a track is completed.

### Overrides:

onCreate in class android.app.Service

### onStartCommand

public int onStartCommand(android.content.Intent intent, int flags, int startId)

The onStartCommand is called after onCreate and is used to set the service as a foreground service.

### Overrides:

onStartCommand in class android.app.Service

### Parameters:

intent - The intent passed from the MainActivity.

flags - Specific flags used for starting the service.

startId - The ID used to start the service.

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

### getNotification

public android.app.Notification getNotification(java.lang.String description)

The getNotification method creates a Notification object using the builder and a pending intent attached to the notification.

### Parameters:

description - The track name or description to display

### Returns:

The Notification object

### onBind

public android.os.IBinder onBind(android.content.Intent intent)

The onBind method is used to bind the ControlBinder to the activity that started it.

### Specified by:

onBind in class android.app.Service

### Parameters:

intent - The intent for specifying which activity it is bound to.

### Returns:

The binder for this service.

### playSingleTrack

private void playSingleTrack(android.net.Uri uri)

The play method will play the Uri passed in if it contains music content. It also initialized the MediaPlayer instance, prepares to run asynchronously, and waits until it is prepared to play the Uri.

### Parameters:

uri - The Uri of the audio file.

### play

private void play(android.net.Uri uri)

The play method will play the Uri passed in if it contains music content. It also resets the variables for playing a folder to prevent it.

### Parameters:

uri - The Uri of the audio file.

### playFolder



Parameters:

folder - The Uri of the audio file.

### pause

private void pause()

The pause method pauses the currently playing audio file and saves the current position to resume the current audio file.

### resume

private void resume()

The resume method seeks to the current position of audio file and starts playing after pause is called.

### isPlaying

private boolean isPlaying()

The isPlaying method checks if the current audio file is playing.

### Returns:

True if playing or false if not.

### stop

private void stop()

The stop method will stop the currently playing audio file.

### playNext

private void playNext()

The playNext method checks if a track is being played from a folder. It then plays the next song if any other are found in the folder.

### playPrev

private void playPrev()

The playPrev method checks if a track is being played from a folder. It then plays the previous song if any other are found in the folder.

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: Q Search

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

rne repeat memou win set me incular layerset vice into a moue where each track of folder is repeated upon completion.

### Returns:

The current repeat status can be o = no repeat, 1 = folder repeat, 2 = file repeat.

### shuffle

private boolean shuffle()

The shuffle method will re-order the folder that is being played into a random order.

### Returns:

The state of shuffle being on or off.

### getFileNames

private java.util.ArrayList<java.lang.String> getFileNames
(androidx.documentfile.provider.DocumentFile[] folder)

The getFileNames method used to return a string array of the filenames.

### Parameters:

folder - The DocumentFile array

### Returns:

The String ArrayList of filenames.

### play

private void play(int position)

The play method plays a track at a specific position if a Uri has been loaded into the MediaPlayerService first.

### Parameters:

position - The position or the single track to play if not a folder.

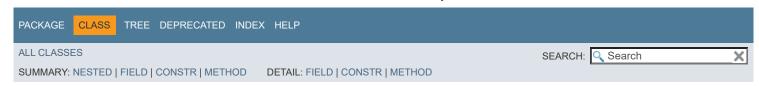
### onDestroy

public void onDestroy()

The onDestroy method is called before the service is destroyed and releases the MediaPlayer from running in the background.

### Overrides:

onDestroy in class android.app.Service





#### Package edu.temple.simpletunes

# Class PlaylistAdapter

java.lang.Object

androidx.recyclerview.widget.RecyclerView.Adapter<PlaylistAdapter.ViewHolder> edu.temple.simpletunes.PlaylistAdapter

#### public class PlaylistAdapter

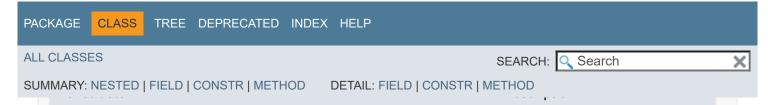
extends androidx.recyclerview.widget.RecyclerView.Adapter<PlaylistAdapter.ViewHolder>

The PlaylistAdapter class is used to control the views within the RecyclerView and allows new tracks to be shown and selected.

# Nested Classes Modifier and Class Type Static PlaylistAdapter.ViewHolder class Provide a reference to the type of views that you are using (custom ViewHolder).

# Field Summary

rieias		
Modifier and Type	Field	Description
private int	highlightedPosition	The position of the item that should be highlight within the view.
private android.content.Context	mContext	The context of the application.
<pre>private MainActivity.OnClickInterface</pre>	mOnClickInterface	The interface used to return the position selected in the view.
<pre>private java.util.List<java.lang.string></java.lang.string></pre>	trackNames	The list of track names to show in the RecyclerView.



PlaylistAdapter(android.content.Context context,
java.util.List<java.lang.String> data,
MainActivity.OnClickInterface onClickInterface)

Initialize the Context, dataset, and interface for returning position of selections.

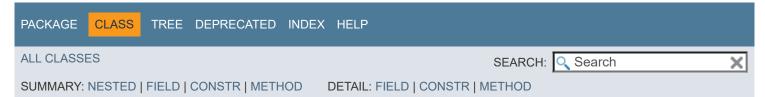
# **Method Summary**

All Methods	Instance Meth	ods	Concrete Methods		
Modifier and Typ	ре	Meth	od		Description
int		getI	temCount()		
void		<pre>onBindViewHolder (PlaylistAdapter.ViewHolder viewHolder, int position)</pre>			
PlaylistAdapt	ter.ViewHolder	(and	eateViewHolder roid.view.ViewGroup viewType)	viewGroup,	
void		setH	ighlightedPosition(i	Int position)	The setHighlightedPosition method changes the index of which item view to highlight.

# Methods inherited from class androidx.recyclerview.widget.RecyclerView.Adapter

bindViewHolder, createViewHolder, getItemId, getItemViewType, hasObservers, hasStableIds, notifyDataSetChanged, notifyItemChanged, notifyItemChanged, notifyItemInserted, notifyItemMoved, notifyItemRangeChanged, notifyItemRangeInserted, notifyItemRangeRemoved, notifyItemRemoved, onAttachedToRecyclerView, onBindViewHolder, onDetachedFromRecyclerView, onFailedToRecycleView, onViewAttachedToWindow, onViewDetachedFromWindow, onViewRecycled, registerAdapterDataObserver, setHasStableIds, unregisterAdapterDataObserver

# Methods inherited from class java.lang.Object



#### Field Detail

#### trackNames

private java.util.List<java.lang.String> trackNames

The list of track names to show in the RecyclerView.

#### **mContext**

private final android.content.Context mContext

The context of the application.

#### mOnClickInterface

private final MainActivity.OnClickInterface mOnClickInterface

The interface used to return the position selected in the view.

#### highlightedPosition

private int highlightedPosition

The position of the item that should be highlight within the view.

#### **Constructor Detail**

#### PlaylistAdapter



context - Context used for string resources.

data - The list containing data to show in the RecyclerView.

onClickInterface - The interface to return position of items selected.

#### Method Detail

#### onCreateViewHolder

@NonNull public PlaylistAdapter.ViewHolder onCreateViewHolder (android.view.ViewGroup viewGroup, int viewType)

#### Specified by:

onCreateViewHolder in

class androidx.recyclerview.widget.RecyclerView.Adapter<PlaylistAdapter.ViewHolder>

#### onBindViewHolder

public void onBindViewHolder(PlaylistAdapter.ViewHolder viewHolder, int position)

#### Specified by:

onBindViewHolder in

class androidx.recyclerview.widget.RecyclerView.Adapter<PlaylistAdapter.ViewHolder>

# setHighlightedPosition

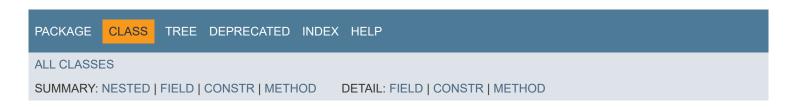
public void setHighlightedPosition(int position)

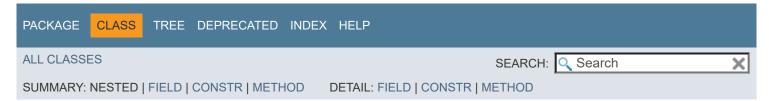
The setHighlightedPosition method changes the index of which item view to highlight.

#### Parameters:

position - The position of the item to change the background color of.







#### Package edu.temple.simpletunes

# Class PlaylistAdapter.ViewHolder

java.lang.Object

androidx.recyclerview.widget.RecyclerView.ViewHolder edu.temple.simpletunes.PlaylistAdapter.ViewHolder

#### **Enclosing class:**

PlaylistAdapter

public static class PlaylistAdapter.ViewHolder
extends androidx.recyclerview.widget.RecyclerView.ViewHolder

Provide a reference to the type of views that you are using (custom ViewHolder).

# Field Summary

#### **Fields**

Modifier and Type	Field	Description
private android.widget.TextView	nameTextView	
<pre>private android.widget.TextView</pre>	numTextView	

Fields inherited from class androidx.recyclerview.widget.RecyclerView.ViewHolder

itemView

# **Constructor Summary**

#### **Constructors**

Constructor	Description
<pre>ViewHolder(android.view.View view)</pre>	Initialize the views within the parent view.

PACKAGE CLASS TREE DEPRECATED INDEX HELP

ALL CLASSES

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

android.widget.TextView **getNameTextView**() The getNameTextView method.

android.widget.TextView **getNumTextView()** The getNumTextView method.

# Methods inherited from class androidx.recyclerview.widget.RecyclerView.ViewHolder

getAdapterPosition, getItemId, getItemViewType, getLayoutPosition, getOldPosition,
getPosition, isRecyclable, setIsRecyclable, toString

# Methods inherited from class java.lang.Object

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

#### Field Detail

#### numTextView

private final android.widget.TextView numTextView

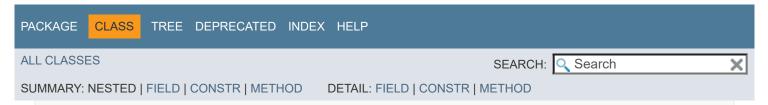
#### nameTextView

private final android.widget.TextView nameTextView

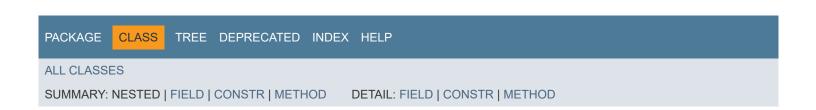
#### Constructor Detail

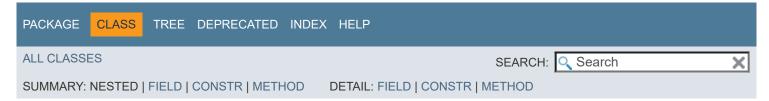
#### ViewHolder

public ViewHolder(android.view.View view)



# ### Method Detail getNameTextView public android.widget.TextView getNameTextView() The getNameTextView method. Returns: The nameTextView getNumTextView public android.widget.TextView getNumTextView() The getNumTextView method. Returns: The numTextView





#### Package edu.temple.simpletunes

# **Class TrackDataChangedEvent**

java.lang.Object

edu.temple.simpletunes.TrackDataChangedEvent

public class TrackDataChangedEvent
extends java.lang.Object

The TrackDataChangedEvent is used by the event bus communicate with the MainActivity's UI when a new track position or playlist is used. EventBus sourced from https://github.com/greenrobot/EventBus

# Field Summary

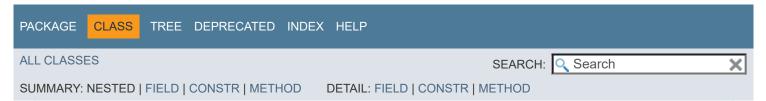
#### **Fields**

Modifier and Type	Field	Description
private java.lang.String	singleTrack	The name of a single track being played.
<pre>private java.util.ArrayList<java.lang.string></java.lang.string></pre>	trackList	The current trackList.
private int	trackPosition	The current position of the track being played.

# **Constructor Summary**

#### **Constructors**

Constructor	Description
<pre>TrackDataChangedEvent(int trackPosition,   java.lang.String singleTrack)</pre>	The TrackDataChangedEvent is used to signal that a new single track is being played.
<pre>TrackDataChangedEvent(int trackPosition,   java.util.ArrayList<java.lang.string> trackList)</java.lang.string></pre>	The trackDataChangedEvent method is used for signaling that the playlist has changed or the current track position has changed.



All Methods	Instance Methods	Concrete Methods	
Modifier and Typ	oe e	Method	Description
java.lang.Str	ring	getSingleTrack	The SingleTrack method return the current single track that is being played.
java.util.Arr	rayList <java.lang.st< th=""><td>tring&gt; <b>getTrackList</b>()</td><td>The getTrackList method return the current names of the audio files in the playlist.</td></java.lang.st<>	tring> <b>getTrackList</b> ()	The getTrackList method return the current names of the audio files in the playlist.
int		getTrackPositi	ion() The getTrackPosition method returns the current track position in the playlist.

# Methods inherited from class java.lang.Object

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

#### Field Detail

# trackList

private java.util.ArrayList<java.lang.String> trackList

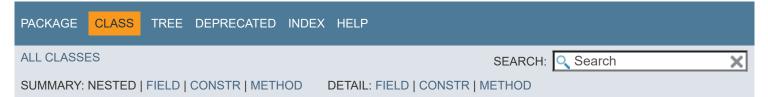
The current trackList.

## trackPosition

private final int trackPosition

The current position of the track being played.

## singleTrack



#### Constructor Detail

#### TrackDataChangedEvent

The trackDataChangedEvent method is used for signaling that the playlist has changed or the current track position has changed.

#### Parameters:

trackPosition - The current position of the track.

trackList - The new playlist to show.

#### TrackDataChangedEvent

The TrackDataChangedEvent is used to signal that a new single track is being played.

## Parameters:

trackPosition - The position of the single track, usually o.

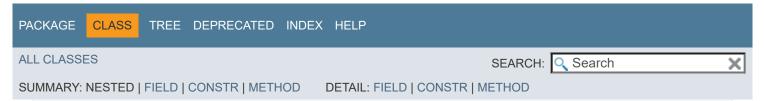
singleTrack - The name of the single track.

#### Method Detail

#### getSingleTrack

public java.lang.String getSingleTrack()

The SingleTrack method return the current single track that is being played.



#### getTrackList

public java.util.ArrayList<java.lang.String> getTrackList()

The getTrackList method return the current names of the audio files in the playlist.

#### Returns:

The arraylist of audio file names or null if single track is being played.

#### getTrackPosition

public int getTrackPosition()

The getTrackPosition method returns the current track position in the playlist.

#### Returns:

The position of the current track.

