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Package edu.temple.simplenetunes

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.simplenetunes

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.

Method Summary

All Methods	Instance Methods	Abstract Methods
Modifier and Type	Method	Description
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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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
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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, 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, getFilePath, 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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SEARCH: SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#) [DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)**Methods inherited from class android.content.Context**

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

Methods inherited from class java.lang.Object

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

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onCreate in class `android.app.Application`

createNotificationChannel

```
private void createNotificationChannel()
```

The `createNotificationChannel` method creates the notification channel for the application. * Starting in Android 8.0 (API level 26), all notifications must be assigned to a channel. * The notification channel is 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. * [https://developer.android.com/training/notify-user/channels#:~:text=When%20you%20target%20Android%208.0,API%20level%2025\)%20or%20lower.](https://developer.android.com/training/notify-user/channels#:~:text=When%20you%20target%20Android%208.0,API%20level%2025)%20or%20lower.)

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Package edu.temple.simplenetunes

Class DocumentFileComparator

java.lang.Object
 edu.temple.simplenetunes.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.

Constructor Summary

Constructors	
Constructor	Description
DocumentFileComparator()	

Method Summary

All Methods		Instance Methods	Concrete Methods
Modifier and Type	Method	Description	
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.	

Methods inherited from class java.lang.Object

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equals, reversed, thenComparing, 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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Package edu.temple.simpleretunes

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.simpleretunes.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.AppCompatActivityCallback, 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.savedstate.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 Type	Class	Description
static interface	MainActivity.OnClickInterface	The OnClickInterface is used to acquire the position of an item selected by passing into the playlistAdapter.

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.
private <code>androidx.activity.result.ActivityResultLauncher<android.content.Intent></code>	folderLauncher	Used to launch the system file browser for folder play.
private boolean	isConnected	The connection state of the MediaPlayerService.
private <code>androidx.activity.result.ActivityResultLauncher<android.content.Intent></code>	mActivityResultLauncher	Used to launch the system file browser for single track play.
private MediaPlayerService.ControlsBinder	mAudioControlsBinder	
private <code>android.content.ServiceConnection</code>	mServiceConnection	
private <code>android.content.Intent</code>	mServiceIntent	The intent used to start the MediaPlayerService.
private boolean	nightModeState	The current state of the system night mode.
private MainActivity.OnClickInterface	onClickInterface	The interface used to track which position is clicked within the RecyclerView.
private <code>java.lang.String</code>	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 <code>java.lang.String</code>	REPEAT_STATE_KEY	Tag used for repeatState.
private int	repeatState	The state of repeat for folder or tracks.
private <code>java.lang.String</code>	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

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static java.lang.String	TRACK_FILE_NAME	Tag used for trackFileName
static java.lang.String	TRACK_POSITION	Tag used for trackPosition.

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

Constructor Summary

Constructors

Constructor	Description
MainActivity()	

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Modifier and Type	Method	Description
boolean	checkPermission (java.lang.String permission, int requestCode)	The checkPermission function is used to check what permissions have been granted previously.
void	handleTrackDataChange (TrackDataChangedEvent 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	mediaPlayerPlayFolder (androidx.documentfile.provider.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	onCreate (android.os.Bundle 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	onRequestPermissionsResult (int requestCode, java.lang.String[] permissions, int[] grantResults)	The onRequestPermissionsResult method is called to verify permission was granted to access storage on the device.
protected void	onRestoreInstanceState (android.os.Bundle savedInstanceState)	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 (android.os.Bundle outState)	The onSaveInstanceState 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

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private **updateRepeatButton**(int status)
void

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 **updateShuffleButton**(boolean status)
void

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, 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, onPrepareOptionsMenu, onPreparePanel, onResumeFragments, onStateNotSaved, setEnterSharedElementCallback, setExitSharedElementCallback, startActivityFromFragment, startActivityFromFragment, startActivitySenderFromFragment, 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, startActivitySenderForResult, startActivitySenderForResult

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,


```
applyOverrideConfiguration, getAssets, getTheme, setTheme
```

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, getAttributionSource, getAttributionTag, getBaseContext, getCacheDir, getClassLoader, getCodeCacheDir, getContentResolver, getDatabasePath, getDataDir, getDir, getDisplay, getExternalCacheDir, getExternalCacheDirs, getExternalFilesDir, getExternalFilesDirs, getExternalMediaDirs, getFilesDir, getFilePath, getMainExecutor, getMainLooper, getNoBackupFilesDir, getObbDir, getObbDirs, getPackageName, getPackageCodePath, getPackageManager, getPackageName, getPackageResourcePath, getParams,

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sendBroadcast, sendBroadcastAsUser, sendBroadcastAsUser, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcast, sendOrderedBroadcastAsUser, sendStickyBroadcast, sendStickyBroadcast, sendStickyBroadcastAsUser, 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:

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

SEARCH:

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 RecyclerView.

onClickInterface

PACKAGE **CLASS** TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH:

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

nightModeState

```
private boolean nightModeState
```

The current state of the system night mode.

currentTrackNum

```
private int currentTrackNum
```

The current track number being played.

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)
```

PACKAGE **CLASS** TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH:

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

Parameters:

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

Specified by:

onRequestPermissionsResult in interface androidx.core.app.ActivityCompat.OnRequestPermissionsResultCallback

Overrides:

onRequestPermissionsResult in class androidx.fragment.app.FragmentActivity

Parameters:

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.

PACKAGE **CLASS** TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH:

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

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 onSaveInstanceState 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:

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:

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:

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

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DETAIL: FIELD | CONSTR | METHOD

Package edu.temple.simpлетunes

Class MediaPlayerService

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

All Implemented Interfaces:
android.content.ComponentCallbacks, android.content.ComponentCallbacks2

```
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.
private androidx.documentfile.provider.DocumentFile[]	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 = no repeat, 1 = folder repeat, 2 = file repeat

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private static java.lang.String

TAG

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
<code>MediaPlayerService()</code>	

Method Summary

All Methods

Instance Methods

Concrete Methods

PACKAGECLASSTREEDEPRECATEDINDEXHELP		
ALL CLASSES		SEARCH: <input type="text" value="Search"/>
SUMMARY: NESTED FIELD CONSTR METHOD		DETAIL: FIELD CONSTR METHOD
		a string array of the filenames.
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.
private boolean	isPlaying()	The isPlaying method checks if the current audio file is playing.
android.os.IBinder	onBind(android.content.Intent intent)	The onBind method is used to bind the ControlBinder to the activity that started it.
void	onCreate()	The onCreate method is called when the service is started and is used to control playback when a track is completed.
void	onDestroy()	The onDestroy method is called before the service is destroyed and releases the MediaPlayer from running in the background.
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.
private void	pause()	The pause method pauses the currently playing audio file and saves the current position to resume the current audio file.
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.
private void	play(android.net.Uri uri)	The play method will play the Uri passed in if it contains music content.

PACKAGE CLASS TREE DEPRECATED INDEX HELP		
ALL CLASSES		SEARCH: <input type="text" value="Search"/>
SUMMARY: NESTED FIELD CONSTR METHOD		DETAIL: FIELD CONSTR METHOD
		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	playSingleTrack (android.net.Uri uri)	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, checkCallingOrSelfPermission, checkCallingOrSelfPermission, checkCallingPermission, checkCallingUriPermission, checkCallingUriPermissions, checkPermission, checkSelfPermission, checkUriPermission, checkUriPermission, checkUriPermissions, clearWallpaper, createAttributionContext,		

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[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](#),
[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](#)

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:

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](#)

mIsPlayingFolder

```
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

SEARCH:

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:

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

PACKAGE **CLASS** TREE DEPRECATED INDEX HELP

ALL CLASSES

SEARCH: SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#) [DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)**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: SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#) [DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)

The repeat method will set the MediaPlayerService into a mode where each track or folder is repeated upon completion.

Returns:

The current repeat status can be 0 = 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

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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 Class Summary

Nested Classes

Modifier and Type	Class	Description
static class	PlaylistAdapter.ViewHolder	Provide a reference to the type of views that you are using (custom ViewHolder).

Field Summary

Fields

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.
private MainActivity.OnClickInterface	mOnClickInterface	The interface used to return the position selected in the view.
private java.util.List<java.lang.String>	trackNames	The list of track names to show in the RecyclerView.

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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 Methods

Concrete Methods

Modifier and Type	Method	Description
int	getItemCount ()	
void	onBindViewHolder (PlaylistAdapter.ViewHolder viewHolder, int position)	
PlaylistAdapter.ViewHolder	onCreateViewHolder (android.view.ViewGroup viewGroup, int viewType)	
void	setHighlightedPosition (int position)	The setHighlightedPosition method changes the index of which item view to highlight.

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

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

Methods inherited from class java.lang.Object

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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

```
public PlaylistAdapter(android.content.Context context,  
                        java.util.List<java.lang.String> data,
```


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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.

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getItemCount in

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

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Package edu.temple.simpлетunes

Class PlaylistAdapter.ViewHolder

java.lang.Object
 androidx.recyclerview.widget.RecyclerView.ViewHolder
 edu.temple.simpлетunes.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	
private android.widget.TextView	numTextView	

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

[itemView](#)

Constructor Summary

Constructors

Constructor	Description
ViewHolder (android.view.View view)	Initialize the views within the parent view.

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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)
```

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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

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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.
private java.util.ArrayList<java.lang.String>	trackList	The current trackList.
private int	trackPosition	The current position of the track being played.

Constructor Summary

Constructors

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

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All Methods**Instance Methods****Concrete Methods**

Modifier and Type	Method	Description
java.lang.String	getSingleTrack()	The SingleTrack method return the current single track that is being played.
java.util.ArrayList<java.lang.String>	getTrackList()	The getTrackList method return the current names of the audio files in the playlist.
int	getTrackPosition()	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, 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

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Constructor Detail

TrackDataChangedEvent

```
public TrackDataChangedEvent(int trackPosition,  
                             java.util.ArrayList<java.lang.String> trackList)
```

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

```
public TrackDataChangedEvent(int trackPosition,  
                             java.lang.String singleTrack)
```

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

Parameters:

trackPosition - The position of the single track, usually 0.

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.

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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.

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