

WebradioManager

1.0

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# Chapter 1

## Namespace Index

### 1.1 Packages

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

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## Chapter 2

# Hierarchical Index

### 2.1 Class Hierarchy

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## Chapter 5

# Namespace Documentation

### 5.1 Package WebradioManager

#### Classes

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*An ad audio file.*
- class [AdminController](#)  
*A controller for handling admin view.*
- class [AdminView](#)  
*An admin view.*
- class [AudioFile](#)  
*An audio file. Abstract class.*
- class [Bdd](#)  
*A bdd connection.*
- class [BddControls](#)
- class [CalendarEvent](#)  
*A calendar event.*
- struct [DayWeek](#)  
*A week with boolean values for each day. Uses for store which day is selected for an [CalendarEvent](#).*
- class [EventAppointment](#)  
*An event appointment. Add 2 properties to the original Appointment class (from Calendar library).*
- interface [IController](#)  
*Interface for controller.*
- class [Music](#)  
*A music.*
- class [Playlist](#)  
*A playlist. Abstract class.*
- class [PlaylistAd](#)  
*A playlist ad.*
- class [PlaylistMusic](#)  
*A playlist music.*
- class **Program**
- class [SelectionController](#)  
*A controller for [SelectionView](#).*
- class [SelectionView](#)  
*A selection view.*

- class [TranscoderAacPlus](#)  
*A transcoder aac plus.*
- class [TranscoderMp3](#)  
*A transcoder mp3.*
- class [Webradio](#)  
*A webradio.*
- class [WebradioCalendar](#)  
*A webradio calendar.*
- class [WebradioListener](#)  
*A webradio listener.*
- class [WebradioServer](#)  
*A shoutcast webradio server.*
- class [WebradioServerStats](#)  
*A webradio server statistics.*
- class [WebradioTranscoder](#)  
*A webradio transcoder.*
- class [WMMModel](#)  
*A data Model for the [WebradioManager](#) project.*

## Enumerations

- enum [AudioType](#) { **Music** = 2, **Ad** = 1 }  
*Values that represent AudioType's id. Defined in DB.*
- enum [DayValue](#) {  
**Monday** = 2, **Tuesday** = 4, **Wednesday** = 8, **Thursday** = 16,  
**Friday** = 32, **Saturday** = 64, **Sunday** = 1 }  
*Values that represent DayValue for calendar event. [http://wiki.winamp.com/wiki/SHOUTcast\\_Calendar\\_Event\\_XML\\_File\\_Specification#Calendar\\_Tag](http://wiki.winamp.com/wiki/SHOUTcast_Calendar_Event_XML_File_Specification#Calendar_Tag).*
- enum [StreamType](#) { **MP3** = 1, **AACPlus** = 2 }  
*Values that represent StreamType's id. Defined in DB.*

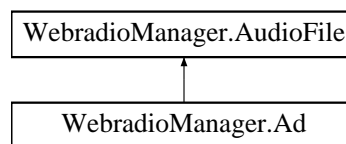
## Chapter 6

# Class Documentation

### 6.1 WebradioManager.Ad Class Reference

An ad audio file.

Inheritance diagram for WebradioManager.Ad:



#### Public Member Functions

- [Ad](#) (int id, string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender)  
*Constructor.*
- [Ad](#) (string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender)  
*Constructor.*

#### Additional Inherited Members

##### 6.1.1 Detailed Description

An ad audio file.

**Author**

Simon Menetrey

**Date**

23.05.2014

Definition at line 20 of file [Ad.cs](#).

### 6.1.2 Constructor & Destructor Documentation

6.1.2.1 `public WebradioManager.Ad.Ad ( int id, string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender )`

Constructor.

Author

Simon Menetrey

Date

23.05.2014

Parameters

<i>id</i>	The identifier.
<i>filename</i>	Filename of the audio file.
<i>title</i>	The title.
<i>artist</i>	The artist.
<i>album</i>	The album.
<i>year</i>	The year.
<i>label</i>	The label.
<i>duration</i>	The duration.
<i>gender</i>	The gender.

Definition at line 42 of file [Ad.cs](#).

6.1.2.2 `public WebradioManager.Ad.Ad ( string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender )`

Constructor.

Author

Simon Menetrey

Date

23.05.2014

Parameters

<i>filename</i>	Filename of the audio file.
<i>title</i>	The title.
<i>artist</i>	The artist.
<i>album</i>	The album.
<i>year</i>	The year.
<i>label</i>	The label.
<i>duration</i>	The duration.
<i>gender</i>	The gender.

Definition at line 66 of file [Ad.cs](#).

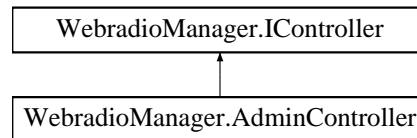
The documentation for this class was generated from the following file:

- [Ad.cs](#)

## 6.2 WebradioManager.AdminController Class Reference

A controller for handling admin view.

Inheritance diagram for WebradioManager.AdminController:



### Public Member Functions

- [AdminController](#) (int id, [WMModel](#) model)  
*Constructor.*
- void [UpdateView](#) ()  
*Updates the view.*
- [Webradio GetWebradio](#) (int id)  
*Gets a webradio.*
- List< [AudioFile](#) > [GetLibrary](#) ()  
*Gets the library.*
- List< string > [GetGenders](#) ()  
*Gets the genders.*
- void [CheckFolders](#) (int webradiold)  
*Check folders.*
- void [FormClose](#) ()  
*Form close. Remove observer.*
- bool [ImportFilesToLibrary](#) (string[] filenames, [AudioType](#) type)  
*Import files to library.*
- bool [DeleteAudioFile](#) (int id, string filename)  
*Deletes the audio file.*
- bool [CreatePlaylist](#) (string name, string webradioName, int webradiold, [AudioType](#) type)  
*Creates a playlist.*
- bool [DeletePlaylist](#) ([Playlist](#) playlist, int webradiold)  
*Deletes the playlist.*
- bool [AddToPlaylist](#) ([Playlist](#) playlist, Dictionary< int, string > audioFiles)  
*Adds to the playlist.*
- bool [RemoveFromPlaylist](#) ([Playlist](#) playlist, Dictionary< int, string > audioFiles)  
*Removes from playlist.*
- List< [AudioFile](#) > [GetPlaylistContent](#) ([Playlist](#) playlist)  
*Gets playlist content.*
- bool [GeneratePlaylist](#) (string name, TimeSpan duration, [AudioType](#) type, string gender, int webradiold, string webradioName)  
*Generates a playlist.*
- bool [CreateEvent](#) ([CalendarEvent](#) newEvent, int webradiold)  
*Creates an event.*
- bool [UpdateEvent](#) ([CalendarEvent](#) aEvent, int webradiold)  
*Updates the event.*
- bool [DeleteEvent](#) ([CalendarEvent](#) aEvent, int webradiold)  
*Deletes the event.*

- bool [CreateTranscoder](#) (string name, [StreamType](#) st, int sampleRate, int bitrate, string url, IPAddress ip, int port, int adminport, string password, int webradioid)  
*Creates a transcoder.*
- bool [DeleteTranscoder](#) ([WebradioTranscoder](#) transcoder, int webradioid)  
*Deletes the transcoder.*
- bool [UpdateTranscoder](#) ([WebradioTranscoder](#) transcoder, bool debug, int webradioid)  
*Updates the transcoder.*
- bool [StartTranscoder](#) ([WebradioTranscoder](#) transcoder, bool debug, int webradioid)  
*Starts a transcoder.*
- bool [StopTranscoder](#) ([WebradioTranscoder](#) transcoder, int webradioid)  
*Stops a transcoder.*
- bool [StopAllTranscoders](#) (int webradioid)  
*Stops all transcoders.*
- void [GenerateAllConfigs](#) (int webradioid)  
*Generates all configs.*
- bool [UpdateServer](#) (bool debug, int port, string password, string adminPassword, int maxListener, int webradioid)  
*Updates the server.*
- bool [StartServer](#) (int webradioid, bool debug)  
*Starts a server.*
- bool [StopServer](#) (int webradioid)  
*Stops a server.*
- void [ShowServerWebInterface](#) (int webradioid)  
*Shows the server web interface.*
- void [ShowServerWebAdmin](#) (int webradioid)  
*Shows the server web admin.*
- bool [TranscoderNextTrack](#) ([WebradioTranscoder](#) transcoder)  
*Transcoder next track.*
- bool [ClearHistory](#) (int transcoderId)  
*Clears the transcoder's history.*
- bool [GenerateHistory](#) (int webradioid, string transcoderName, int transcoderId, string outputFilename)  
*Generates a history.*
- bool [ModifyWebradioName](#) (string name, int webradioid)  
*Modify webradio's name.*
- [AudioFile](#) [GetAudioFileByFilename](#) (string filename)  
*Gets audio file by filename.*
- bool [UpdateAudioFile](#) ([AudioFile](#) file)  
*Updates the audio file described by file.*
- bool [TranscoderCapture](#) (bool active, string device, [WebradioTranscoder](#) transcoder, int webradioid)  
*Transcoder capture mode set.*
- List< [WebradioListener](#) > [GetServerListeners](#) (int webradioid)  
*Get server's listeners.*
- bool [UpdateServerStats](#) (int webradioid)  
*Updates the server statistics.*
- bool [CheckLibrary](#) ()  
*Check library integrity.*
- int [GetSimilarViewCount](#) (int webradioid)  
*Gets similar view count.*

## Properties

- [AdminView View](#) [get, set]  
*Gets or sets the view.*
- [WMMModel Model](#) [get, set]  
*Gets or sets the model.*

### 6.2.1 Detailed Description

A controller for handling admin view.

#### Author

Simon Menetrey

#### Date

23.05.2014

Definition at line 22 of file [AdminController.cs](#).

### 6.2.2 Constructor & Destructor Documentation

6.2.2.1 `public WebradioManager.AdminController.AdminController ( int id, WMMModel model )`

Constructor.

#### Author

Simon Menetrey

#### Date

23.05.2014

#### Parameters

<i>id</i>	The webradio identifier.
<i>model</i>	The model.

Definition at line 76 of file [AdminController.cs](#).

### 6.2.3 Member Function Documentation

6.2.3.1 `public bool WebradioManager.AdminController.AddToPlaylist ( Playlist playlist, Dictionary< int, string > audioFiles )`

Adds to the playlist.

#### Author

Simon Menetrey

#### Date

23.05.2014

## Parameters

<i>playlist</i>	The playlist.
<i>audioFiles</i>	The audio files.

## Returns

true if it succeeds, false if it fails.

Definition at line 271 of file [AdminController.cs](#).

### 6.2.3.2 public void WebradioManager.AdminController.CheckFolders ( int *webradioId* )

Check folders.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>webradioId</i>	Identifier of the webradio.
-------------------	-----------------------------

Definition at line 159 of file [AdminController.cs](#).

### 6.2.3.3 public bool WebradioManager.AdminController.CheckLibrary ( )

Check library integrity.

## Author

Simon Menetrey

## Date

23.05.2014

## Returns

true if it succeeds, false if it fails.

Definition at line 807 of file [AdminController.cs](#).

### 6.2.3.4 public bool WebradioManager.AdminController.ClearHistory ( int *transcoderId* )

Clears the transcoder's history.

## Author

Simon Menetrey

## Date

23.05.2014



## Parameters

<i>transcoderId</i>	Identifier for the transcoder.
---------------------	--------------------------------

## Returns

true if it succeeds, false if it fails.

Definition at line 658 of file [AdminController.cs](#).

**6.2.3.5 public bool WebradioManager.AdminController.CreateEvent ( *CalendarEvent newEvent*, int *webradioId* )**

Creates an event.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>newEvent</i>	The new event.
<i>webradioId</i>	Identifier of the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 353 of file [AdminController.cs](#).

**6.2.3.6 public bool WebradioManager.AdminController.CreatePlaylist ( string *name*, string *webradioName*, int *webradioId*, *AudioType type* )**

Creates a playlist.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>name</i>	The playlis's name.
<i>webradioName</i>	Name of the webradio.
<i>webradioId</i>	Identifier of the webradio.
<i>type</i>	The type.

## Returns

true if it succeeds, false if it fails.

Definition at line 232 of file [AdminController.cs](#).

6.2.3.7 `public bool WebradioManager.AdminController.CreateTranscoder ( string name, StreamType st, int sampleRate, int bitrate, string url, IPAddress ip, int port, int adminport, string password, int webradiold )`

Creates a transcoder.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>name</i>	The name.
<i>st</i>	The streamtype.
<i>sampleRate</i>	The sample rate.
<i>bitrate</i>	The bitrate.
<i>url</i>	URL of the stream.
<i>ip</i>	The IP.
<i>port</i>	The port.
<i>adminport</i>	The adminport.
<i>password</i>	The password.
<i>webradiold</i>	Identifier of the webradio.

**Returns**

true if it succeeds, false if it fails.

Definition at line 418 of file [AdminController.cs](#).

6.2.3.8 `public bool WebradioManager.AdminController.DeleteAudioFile ( int id, string filename )`

Deletes the audio file.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>id</i>	The identifier.
<i>filename</i>	Filename of the file.

**Returns**

true if it succeeds, false if it fails.

Definition at line 211 of file [AdminController.cs](#).

6.2.3.9 `public bool WebradioManager.AdminController.DeleteEvent ( CalendarEvent aEvent, int webradiold )`

Deletes the event.

Author

Simon Menetrey

Date

23.05.2014

Parameters

<i>aEvent</i>	The event.
<i>webradiold</i>	Identifier of the webradio.

Returns

true if it succeeds, false if it fails.

Definition at line 391 of file [AdminController.cs](#).

6.2.3.10 `public bool WebradioManager.AdminController.DeletePlaylist ( Playlist playlist, int webradiold )`

Deletes the playlist.

Author

Simon Menetrey

Date

23.05.2014

Parameters

<i>playlist</i>	The playlist.
<i>webradiold</i>	Identifier of the webradio.

Returns

true if it succeeds, false if it fails.

Definition at line 252 of file [AdminController.cs](#).

6.2.3.11 `public bool WebradioManager.AdminController.DeleteTranscoder ( WebradioTranscoder transcoder, int webradiold )`

Deletes the transcoder.

Author

Simon Menetrey

Date

23.05.2014

## Parameters

<i>transcoder</i>	The transcoder.
<i>webradiold</i>	Identifier of the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 437 of file [AdminController.cs](#).

6.2.3.12 `public void WebradioManager.AdminController.FormClose ( )`

Form close. Remove observer.

## Author

Simon Menetrey

## Date

23.05.2014

Definition at line 173 of file [AdminController.cs](#).

6.2.3.13 `public void WebradioManager.AdminController.GenerateAllConfigs ( int webradiold )`

Generates all configs.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>webradiold</i>	Identifier of the webradio.
-------------------	-----------------------------

Definition at line 530 of file [AdminController.cs](#).

6.2.3.14 `public bool WebradioManager.AdminController.GenerateHistory ( int webradiold, string transcoderName, int transcoderId, string outputFilename )`

Generates a history.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>webradioId</i>	Identifier of the webradio.
<i>transcoderName</i>	Name of the transcoder.
<i>transcoderId</i>	Identifier of the transcoder.
<i>outputFilename</i>	Filename of the output file.

## Returns

true if it succeeds, false if it fails.

Definition at line 679 of file [AdminController.cs](#).

6.2.3.15 `public bool WebradioManager.AdminController.GeneratePlaylist ( string name, TimeSpan duration, AudioType type, string gender, int webradioId, string webradioName )`

Generates a playlist.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>name</i>	The name.
<i>duration</i>	The duration.
<i>type</i>	The type.
<i>gender</i>	The gender.
<i>webradioId</i>	Identifier of the webradio.
<i>webradioName</i>	Name of the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 334 of file [AdminController.cs](#).

6.2.3.16 `public AudioFile WebradioManager.AdminController.GetAudioFileByFilename ( string filename )`

Gets audio file by filename.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>filename</i>	Filename of the file.
-----------------	-----------------------

## Returns

The audio file by filename.

Definition at line 716 of file [AdminController.cs](#).

6.2.3.17 `public List< string > WebradioManager.AdminController.GetGenders ( )`

Gets the genders.

## Author

Simon Menetrey

## Date

23.05.2014

## Returns

The genders.

Definition at line 143 of file [AdminController.cs](#).

6.2.3.18 `public List< AudioFile > WebradioManager.AdminController.GetLibrary ( )`

Gets the library.

## Author

Simon Menetrey

## Date

23.05.2014

## Returns

The library.

Definition at line 127 of file [AdminController.cs](#).

6.2.3.19 `public List< AudioFile > WebradioManager.AdminController.GetPlaylistContent ( Playlist playlist )`

Gets playlist content.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>playlist</i>	The playlist.
-----------------	---------------

## Returns

The playlist content.

Definition at line 311 of file [AdminController.cs](#).

6.2.3.20 `public List< WebradioListener > WebradioManager.AdminController.GetServerListeners ( int webradioid )`

Get server's listeners.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>webradioid</i>	Identifier of the webradio.
-------------------	-----------------------------

## Returns

A List<[WebradioListener](#)>

Definition at line 773 of file [AdminController.cs](#).

6.2.3.21 `public int WebradioManager.AdminController.GetSimilarViewCount ( int webradioid )`

Gets similar view count.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>webradioid</i>	Identifier of the webradio.
-------------------	-----------------------------

## Returns

The similar view count.

Definition at line 825 of file [AdminController.cs](#).

**6.2.3.22** `public Webradio WebradioManager.AdminController.GetWebradio ( int id )`

Gets a webradio.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>id</i>	The webradio identifier.
-----------	--------------------------

**Returns**

The webradio.

Definition at line 111 of file [AdminController.cs](#).

**6.2.3.23** `public bool WebradioManager.AdminController.ImportFilesToLibrary ( string[] filenames, AudioType type )`

Import files to library.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>filenames</i>	The filenames.
<i>type</i>	The type.

**Returns**

true if it succeeds, false if it fails.

Definition at line 192 of file [AdminController.cs](#).

**6.2.3.24** `public bool WebradioManager.AdminController.ModifyWebradioName ( string name, int webradiold )`

Modify webradio's name.

**Author**

Simon Menetrey

**Date**

23.05.2014



## Parameters

<i>name</i>	The name.
<i>webradiold</i>	Identifier of the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 698 of file [AdminController.cs](#).

6.2.3.25 `public bool WebradioManager.AdminController.RemoveFromPlaylist ( Playlist playlist, Dictionary< int, string > audioFiles )`

Removes from playlist.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>playlist</i>	The playlist.
<i>audioFiles</i>	The audio files.

## Returns

true if it succeeds, false if it fails.

Definition at line 293 of file [AdminController.cs](#).

6.2.3.26 `public void WebradioManager.AdminController.ShowServerWebAdmin ( int webradiold )`

Shows the server web admin.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>webradiold</i>	Identifier of the webradio.
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Definition at line 622 of file [AdminController.cs](#).

6.2.3.27 `public void WebradioManager.AdminController.ShowServerWebInterface ( int webradiold )`

Shows the server web interface.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>webradiold</i>	Identifier of the webradio.
-------------------	-----------------------------

Definition at line 606 of file [AdminController.cs](#).**6.2.3.28** `public bool WebradioManager.AdminController.StartServer ( int webradiold, bool debug )`

Starts a server.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>webradiold</i>	Identifier of the webradio.
<i>debug</i>	Debug or not.

**Returns**

true if it succeeds, false if it fails.

Definition at line 572 of file [AdminController.cs](#).**6.2.3.29** `public bool WebradioManager.AdminController.StartTranscoder ( WebradioTranscoder transcoder, bool debug, int webradiold )`

Starts a transcoder.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>transcoder</i>	The transcoder.
<i>debug</i>	Debug or not.

<i>webradiold</i>	Identifier of the webradio.
-------------------	-----------------------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 477 of file [AdminController.cs](#).

6.2.3.30 `public bool WebradioManager.AdminController.StopAllTranscoders ( int webradiold )`

Stops all transcoders.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>webradiold</i>	Identifier of the webradio.
-------------------	-----------------------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 514 of file [AdminController.cs](#).

6.2.3.31 `public bool WebradioManager.AdminController.StopServer ( int webradiold )`

Stops a server.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>webradiold</i>	Identifier of the webradio.
-------------------	-----------------------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 590 of file [AdminController.cs](#).

**6.2.3.32** `public bool WebradioManager.AdminController.StopTranscoder ( WebradioTranscoder transcoder, int webradiold )`

Stops a transcoder.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>transcoder</i>	The transcoder.
<i>webradiold</i>	Identifier of the webradio.

**Returns**

true if it succeeds, false if it fails.

Definition at line 496 of file [AdminController.cs](#).

**6.2.3.33** `public bool WebradioManager.AdminController.TranscoderCapture ( bool active, string device, WebradioTranscoder transcoder, int webradiold )`

Transcoder capture mode set.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>active</i>	true to active.
<i>device</i>	The device's name.
<i>transcoder</i>	The transcoder.
<i>webradiold</i>	Identifier of the webradio.

**Returns**

true if it succeeds, false if it fails.

Definition at line 755 of file [AdminController.cs](#).

**6.2.3.34** `public bool WebradioManager.AdminController.TranscoderNextTrack ( WebradioTranscoder transcoder )`

Transcoder next track.

**Author**

Simon Menetrey

**Date**

23.05.2014

## Parameters

<i>transcoder</i>	The transcoder.
-------------------	-----------------

## Returns

true if it succeeds, false if it fails.

Definition at line 640 of file [AdminController.cs](#).

6.2.3.35 public bool WebradioManager.AdminController.UpdateAudioFile ( [AudioFile](#) *file* )

Updates the audio file described by file.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>file</i>	The file.
-------------	-----------

## Returns

true if it succeeds, false if it fails.

Definition at line 734 of file [AdminController.cs](#).

6.2.3.36 public bool WebradioManager.AdminController.UpdateEvent ( [CalendarEvent](#) *aEvent*, int *webradiold* )

Updates the event.

## Author

Simon Menetrey

## Date

23.05.2014

## Parameters

<i>aEvent</i>	The event.
<i>webradiold</i>	Identifier of the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 372 of file [AdminController.cs](#).

6.2.3.37 `public bool WebradioManager.AdminController.UpdateServer ( bool debug, int port, string password, string adminPassword, int maxListener, int webradiold )`

Updates the server.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>debug</i>	Debug or not.
<i>port</i>	The port.
<i>password</i>	The password.
<i>adminPassword</i>	The admin password.
<i>maxListener</i>	The maximum listener.
<i>webradiold</i>	Identifier of the webradio.

**Returns**

true if it succeeds, false if it fails.

Definition at line 553 of file [AdminController.cs](#).

6.2.3.38 `public bool WebradioManager.AdminController.UpdateServerStats ( int webradiold )`

Updates the server statistics.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>webradiold</i>	Identifier of the webradio.
-------------------	-----------------------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 791 of file [AdminController.cs](#).

6.2.3.39 `public bool WebradioManager.AdminController.UpdateTranscoder ( WebradioTranscoder transcoder, bool debug, int webradiold )`

Updates the transcoder.

**Author**

Simon Menetrey

**Date**

23.05.2014

**Parameters**

<i>transcoder</i>	The transcoder.
<i>debug</i>	Debug or not.
<i>webradioid</i>	Identifier of the webradio.

**Returns**

true if it succeeds, false if it fails.

Definition at line 457 of file [AdminController.cs](#).

6.2.3.40 public void WebradioManager.AdminController.UpdateView ( )

Updates the view.

**Author**

Simon Menetrey

**Date**

23.05.2014

Implements [WebradioManager.IController](#).

Definition at line 93 of file [AdminController.cs](#).

## 6.2.4 Property Documentation

6.2.4.1 public WMMModel WebradioManager.AdminController.Model [get], [set]

Gets or sets the model.

**Returns**

The model.

Definition at line 56 of file [AdminController.cs](#).

6.2.4.2 public AdminView WebradioManager.AdminController.View [get], [set]

Gets or sets the view.

**Returns**

The view.

Definition at line 42 of file [AdminController.cs](#).

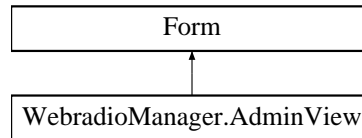
The documentation for this class was generated from the following file:

- [AdminController.cs](#)

## 6.3 WebradioManager.AdminView Class Reference

An admin view.

Inheritance diagram for WebradioManager.AdminView:



### Public Member Functions

- [AdminView](#) (int `idWebradio`, [AdminController](#) controller)  
*Constructor.*
- void [UpdateView](#) ()  
*Updates the view.*

### Properties

- string [NameWebradio](#) [get, set]  
*Gets or sets the webradio's name.*
- List< [EventAppointment](#) > [EventsCalendar](#) [get, set]  
*Gets or sets the events calendar.*
- int [IdWebradio](#) [get, set]  
*Gets or sets the identifier of the current webradio.*
- [AdminController Controller](#) [get, set]  
*Gets or sets the controller.*

### 6.3.1 Detailed Description

An admin view.

#### Author

Simon Menetrey

#### Date

23.05.2014

Definition at line 29 of file [AdminView.cs](#).

### 6.3.2 Constructor & Destructor Documentation

#### 6.3.2.1 public WebradioManager.AdminView.AdminView ( int `idWebradio`, [AdminController controller](#) )

Constructor.

#### Author

Simon Menetrey



## Date

23.05.2014

## Parameters

<i>idWebradio</i>	The webradio's identifier.
<i>controller</i>	The controller.

Definition at line 121 of file [AdminView.cs](#).

### 6.3.3 Member Function Documentation

#### 6.3.3.1 public void WebradioManager.AdminView.UpdateView ( )

Updates the view.

## Author

Simon Menetrey

## Date

23.05.2014

Definition at line 139 of file [AdminView.cs](#).

### 6.3.4 Property Documentation

#### 6.3.4.1 public AdminController WebradioManager.AdminView.Controller [get], [set]

Gets or sets the controller.

## Returns

The controller.

Definition at line 102 of file [AdminView.cs](#).

#### 6.3.4.2 public List< EventAppointment > WebradioManager.AdminView.EventsCalendar [get], [set]

Gets or sets the events calendar.

## Returns

The events calendar.

Definition at line 74 of file [AdminView.cs](#).

#### 6.3.4.3 public int WebradioManager.AdminView.IdWebradio [get], [set]

Gets or sets the identifier of the current webradio.

## Returns

The identifier webradio.

Definition at line 88 of file [AdminView.cs](#).

#### 6.3.4.4 `public string WebradioManager.AdminView.NameWebradio` [get], [set]

Gets or sets the webradio's name.

##### Returns

The name webradio.

Definition at line 60 of file [AdminView.cs](#).

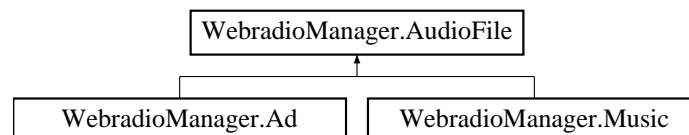
The documentation for this class was generated from the following file:

- [AdminView.cs](#)

## 6.4 WebradioManager.AudioFile Class Reference

An audio file. Abstract class.

Inheritance diagram for WebradioManager.AudioFile:



### Public Member Functions

- [AudioFile](#) (int id, string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender, [AudioType](#) audiotype)  
*Constructor.*
- [AudioFile](#) (string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender, [AudioType](#) audiotype)  
*Constructor.*
- string[] **GetInfosArray** ()

### Properties

- int [Id](#) [get, set]  
*Gets or sets the identifier.*
- string [Filename](#) [get, set]  
*Gets or sets the filename of the audiofile.*
- string [Title](#) [get, set]  
*Gets or sets the title.*
- string [Artist](#) [get, set]  
*Gets or sets the artist.*
- string [Album](#) [get, set]  
*Gets or sets the album.*
- int [Year](#) [get, set]  
*Gets or sets the year.*
- string [Label](#) [get, set]  
*Gets or sets the label.*
- TimeSpan [Duration](#) [get, set]

*Gets or sets the duration.*

- string [Gender](#) [get, set]

*Gets or sets the gender.*

- [AudioType Type](#) [get, set]

*Gets or sets the type.*

### 6.4.1 Detailed Description

An audio file. Abstract class.

Author

Simon Menetrey

Date

26.05.2014

Definition at line 20 of file [AudioFile.cs](#).

### 6.4.2 Constructor & Destructor Documentation

6.4.2.1 `public WebradioManager.AudioFile.AudioFile ( int id, string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender, AudioType audiotype )`

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>id</i>	The identifier.
<i>filename</i>	Filename of the audiofile.
<i>title</i>	The title.
<i>artist</i>	The artist.
<i>album</i>	The album.
<i>year</i>	The year.
<i>label</i>	The label.
<i>duration</i>	The duration.
<i>gender</i>	The gender.
<i>audiotype</i>	The audiotype.

Definition at line 218 of file [AudioFile.cs](#).

6.4.2.2 `public WebradioManager.AudioFile.AudioFile ( string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender, AudioType audiotype )`

Constructor.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>filename</i>	Filename of the audiofile.
<i>title</i>	The title.
<i>artist</i>	The artist.
<i>album</i>	The album.
<i>year</i>	The year.
<i>label</i>	The label.
<i>duration</i>	The duration.
<i>gender</i>	The gender.
<i>audiotype</i>	The audiotype.

Definition at line 251 of file [AudioFile.cs](#).

### 6.4.3 Property Documentation

#### 6.4.3.1 `public string WebradioManager.AudioFile.Album` `[get]`, `[set]`

Gets or sets the album.

**Returns**

The album.

Definition at line 119 of file [AudioFile.cs](#).

#### 6.4.3.2 `public string WebradioManager.AudioFile.Artist` `[get]`, `[set]`

Gets or sets the artist.

**Returns**

The artist.

Definition at line 105 of file [AudioFile.cs](#).

#### 6.4.3.3 `public TimeSpan WebradioManager.AudioFile.Duration` `[get]`, `[set]`

Gets or sets the duration.

**Returns**

The duration.

Definition at line 161 of file [AudioFile.cs](#).

**6.4.3.4** `public string WebradioManager.AudioFile.Filename` `[get], [set]`

Gets or sets the filename of the audiofile.

**Returns**

The filename.

Definition at line 77 of file [AudioFile.cs](#).

**6.4.3.5** `public string WebradioManager.AudioFile.Gender` `[get], [set]`

Gets or sets the gender.

**Returns**

The gender.

Definition at line 175 of file [AudioFile.cs](#).

**6.4.3.6** `public int WebradioManager.AudioFile.Id` `[get], [set]`

Gets or sets the identifier.

**Returns**

The identifier.

Definition at line 63 of file [AudioFile.cs](#).

**6.4.3.7** `public string WebradioManager.AudioFile.Label` `[get], [set]`

Gets or sets the label.

**Returns**

The label.

Definition at line 147 of file [AudioFile.cs](#).

**6.4.3.8** `public string WebradioManager.AudioFile.Title` `[get], [set]`

Gets or sets the title.

**Returns**

The title.

Definition at line 91 of file [AudioFile.cs](#).

**6.4.3.9** `public AudioType WebradioManager.AudioFile.Type` `[get], [set]`

Gets or sets the type.

**Returns**

The type.

Definition at line 189 of file [AudioFile.cs](#).

6.4.3.10 `public int WebradioManager.AudioFile.Year [get], [set]`

Gets or sets the year.

#### Returns

The year.

Definition at line 133 of file [AudioFile.cs](#).

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

- [AudioFile.cs](#)

## 6.5 WebradioManager.Bdd Class Reference

A bdd connection.

### Public Member Functions

- [Bdd](#) ()  
*Default constructor.*
- Dictionary< int, [Webradio](#) > [LoadWebradios](#) ()  
*Loads the webradios from db. All webradio's elements are loaded too.*
- List< [AudioFile](#) > [LoadLibrary](#) ()  
*Loads the library from db.*
- int [AddWebradio](#) ([Webradio](#) webradio)  
*Adds a webradio to db. Create server and calendar entries for this new webradio.*
- bool [WebradioExist](#) (string name)  
*[Webradio](#) exists in the db.*
- bool [DeleteWebradio](#) (int id)  
*Deletes the webradio described by ID.*
- List< string > [GetGenders](#) ()  
*Gets genders list.*
- int [GetGenderId](#) (string gender)  
*Gets gender identifier.*
- int [AddGender](#) (string gender)  
*Adds a gender.*
- int [AddAudioFile](#) ([AudioFile](#) file)  
*Adds an audio file.*
- bool [UpdateAudioFile](#) ([AudioFile](#) file) hh:mm:ss"  
*Updates the audio file's values.*
- bool [AudioFileExist](#) (string filename)  
*Audio file exists.*
- bool [DeleteAudioFile](#) (int id)  
*Deletes the audio file described by ID.*
- int [CreatePlaylist](#) ([Playlist](#) playlist, int webradioid)  
*Creates a playlist.*
- bool [DeletePlaylist](#) (int id)  
*Deletes the playlist described by ID.*
- bool [AddToPlaylist](#) (int idAudioFile, int idPlaylist)  
*Adds an audio file to a playlist.*

- bool [RemoveFromPlaylist](#) (int idAudioFile, int idPlaylist)  
*Removes an audio file from a playlist.*
- int [AddGeneratedPlaylist](#) ([Playlist](#) playlist, List< int > audioFilesId, int webradioId)  
*Adds a generated playlist.*
- int [AddEvent](#) ([CalendarEvent](#) newEvent, int calendarId, int playlistId)  
*Adds an event to a calendar.*
- bool [EventExist](#) ([CalendarEvent](#) aEvent, int calendarId)  
*Event exists in the db.*
- bool [UpdateEvent](#) ([CalendarEvent](#) aEvent)  
*Updates the event's value.*
- bool [DeleteEvent](#) ([CalendarEvent](#) aEvent)  
*Deletes the event described by aEvent.*
- bool [TranscoderExist](#) (string name, int webradioId)  
*Transcoder exists.*
- int [AddTranscoder](#) ([WebradioTranscoder](#) transcoder, int webradioId)  
*Adds a transcoder to a webradio.*
- bool [DeleteTranscoder](#) (int transcoderId)  
*Deletes the transcoder described by transcoder's id.*
- bool [UpdateTranscoder](#) ([WebradioTranscoder](#) transcoder)  
*Updates the transcoder with transcoder param's values.*
- bool [UpdateServer](#) (int port, string password, string adminPassword, int maxListener, int webradioId)  
*Updates the server configuration.*
- bool [AddToHistory](#) (int transcoderId, DateTime date, string filename)  
*Adds audiofile's filename to the transcoder's history.*
- Dictionary< string, string > [GetHistory](#) (int transcoderId)  
*Gets a transcoder's history.*
- bool [ClearHistory](#) (int transcoderId)  
*Clears the transcoder's history.*
- bool [ModifyWebradioName](#) (string name, int webradioId)  
*Modify webradio's name.*
- bool [UpdateFileNames](#) (string oldName, string newName, [Webradio](#) webradio)  
*Updates the filenames with new webradio's name.*

## Public Attributes

- const int **ERROR** = -1

## Properties

- [BddControls Controls](#) [get, set]  
*Gets or sets the bdd controls.*

### 6.5.1 Detailed Description

A bdd connection.

Author

Simon Menetrey

Date

26.05.2014

Definition at line 23 of file [Bdd.cs](#).

## 6.5.2 Constructor & Destructor Documentation

### 6.5.2.1 `public WebradioManager.Bdd.Bdd ( )`

Default constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 63 of file [Bdd.cs](#).

## 6.5.3 Member Function Documentation

### 6.5.3.1 `public int WebradioManager.Bdd.AddAudioFile ( AudioFile file )`

Adds an audio file.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>file</i>	The audiofile.
-------------	----------------

#### Returns

The new audio file's id.

Definition at line 447 of file [Bdd.cs](#).

### 6.5.3.2 `public int WebradioManager.Bdd.AddEvent ( CalendarEvent newEvent, int calendarId, int playlistId )`

Adds an event to a calendar.

#### Author

Simon Menetrey

#### Date

26.05.2014



## Parameters

<i>newEvent</i>	The new event.
<i>calendarId</i>	Identifier for the calendar.
<i>playlistId</i>	Identifier for the playlist.

## Returns

The new event's id.

Definition at line 754 of file [Bdd.cs](#).

### 6.5.3.3 public int WebradioManager.Bdd.AddGender ( string *gender* )

Adds a gender.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>gender</i>	The gender's name.
---------------	--------------------

## Returns

The new gender's id.

Definition at line 421 of file [Bdd.cs](#).

### 6.5.3.4 public int WebradioManager.Bdd.AddGeneratedPlaylist ( Playlist *playlist*, List< int > *audioFilesId*, int *webradioId* )

Adds a generated playlist.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>playlist</i>	The playlist.
<i>audioFilesId</i>	Identifier for the audio files.
<i>webradioId</i>	Identifier for the webradio.

## Returns

AThe new generated playlist's id.

Definition at line 728 of file [Bdd.cs](#).

6.5.3.5 `public bool WebradioManager.Bdd.AddToHistory ( int transcoderId, DateTime date, string filename )`

Adds audiofile's filename to the transcoder's history.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>transcoderId</i>	Identifier for the transcoder.
<i>date</i>	The date Date/Time.
<i>filename</i>	Filename of the audiofile.

**Returns**

true if it succeeds, false if it fails.

Definition at line 1051 of file [Bdd.cs](#).

6.5.3.6 `public bool WebradioManager.Bdd.AddToPlaylist ( int idAudioFile, int idPlaylist )`

Adds an audio file to a playlist.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>idAudioFile</i>	The identifier audio file.
<i>idPlaylist</i>	The identifier playlist.

**Returns**

true if it succeeds, false if it fails.

Definition at line 647 of file [Bdd.cs](#).

6.5.3.7 `public int WebradioManager.Bdd.AddTranscoder ( WebradioTranscoder transcoder, int webradioid )`

Adds a transcoder to a webradio.

**Author**

Simon Menetrey

**Date**

26.05.2014

## Parameters

<i>transcoder</i>	The transcoder.
<i>webradioid</i>	Identifier for the webradio.

## Returns

The new transcoder's id.

Definition at line 900 of file [Bdd.cs](#).

### 6.5.3.8 public int WebradioManager.Bdd.AddWebradio ( Webradio *webradio* )

Adds a webradio to db. Create server and calendar entries for this new webradio.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>webradio</i>	The webradio.
-----------------	---------------

## Returns

Id of created webradio. or ERROR.

Definition at line 257 of file [Bdd.cs](#).

### 6.5.3.9 public bool WebradioManager.Bdd.AudioFileExist ( string *filename* )

Audio file exists.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>filename</i>	Filename of the audio file.
-----------------	-----------------------------

## Returns

true if it exists, false if it doesn't exist.

Definition at line 530 of file [Bdd.cs](#).

#### 6.5.3.10 `public bool WebradioManager.Bdd.ClearHistory ( int transcoderId )`

Clears the transcoder's history.

##### Author

Simon Menetrey

##### Date

26.05.2014

##### Parameters

<i>transcoderId</i>	Identifier for the transcoder.
---------------------	--------------------------------

##### Returns

true if it succeeds, false if it fails.

Definition at line 1103 of file [Bdd.cs](#).

#### 6.5.3.11 `public int WebradioManager.Bdd.CreatePlaylist ( Playlist playlist, int webradioid )`

Creates a playlist.

##### Author

Simon Menetrey

##### Date

26.05.2014

##### Parameters

<i>playlist</i>	The playlist.
<i>webradioid</i>	The webradio's id.

##### Returns

The new playlist's id or error code.

Definition at line 588 of file [Bdd.cs](#).

#### 6.5.3.12 `public bool WebradioManager.Bdd.DeleteAudioFile ( int id )`

Deletes the audio file described by ID.

##### Author

Simon Menetrey

##### Date

26.05.2014

## Parameters

<i>id</i>	The identifier.
-----------	-----------------

## Returns

true if it succeeds, false if it fails.

Definition at line 560 of file [Bdd.cs](#).

**6.5.3.13 public bool WebradioManager.Bdd.DeleteEvent ( CalendarEvent aEvent )**

Deletes the event described by aEvent.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>aEvent</i>	The event.
---------------	------------

## Returns

true if it succeeds, false if it fails.

Definition at line 843 of file [Bdd.cs](#).

**6.5.3.14 public bool WebradioManager.Bdd.DeletePlaylist ( int id )**

Deletes the playlist described by ID.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>id</i>	The identifier.
-----------	-----------------

## Returns

true if it succeeds, false if it fails.

Definition at line 620 of file [Bdd.cs](#).

**6.5.3.15** `public bool WebradioManager.Bdd.DeleteTranscoder ( int transcoderId )`

Deletes the transcoder described by transcoder's id.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>transcoderId</i>	Identifier for the transcoder.
---------------------	--------------------------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 951 of file [Bdd.cs](#).

**6.5.3.16** `public bool WebradioManager.Bdd.DeleteWebradio ( int id )`

Deletes the webradio described by ID.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>id</i>	The identifier.
-----------	-----------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 346 of file [Bdd.cs](#).

**6.5.3.17** `public bool WebradioManager.Bdd.EventExist ( CalendarEvent aEvent, int calendarId )`

Event exists in the db.

**Author**

Simon Menetrey

**Date**

26.05.2014

## Parameters

<i>aEvent</i>	The event.
<i>calendarId</i>	Identifier for the calendar.

## Returns

true if it exists, false if it doesn't exists.

Definition at line 790 of file [Bdd.cs](#).

**6.5.3.18 public int WebradioManager.Bdd.GetGenderId ( string *gender* )**

Gets gender identifier.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>gender</i>	The gender's name.
---------------	--------------------

## Returns

The gender identifier.

Definition at line 395 of file [Bdd.cs](#).

**6.5.3.19 public List< string > WebradioManager.Bdd.GetGenders ( )**

Gets genders list.

## Author

Simon Menetrey

## Date

26.05.2014

## Returns

The genders list.

Definition at line 370 of file [Bdd.cs](#).

**6.5.3.20 public Dictionary< string, string > WebradioManager.Bdd.GetHistory ( int *transcoderId* )**

Gets a transcoder's history.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>transcoderId</i>	Identifier for the transcoder.
---------------------	--------------------------------

**Returns**

The history (date,filename).

Definition at line [1078](#) of file [Bdd.cs](#).

**6.5.3.21** `public List< AudioFile > WebradioManager.Bdd.LoadLibrary ( )`

Loads the library from db.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

The library list.

Definition at line [206](#) of file [Bdd.cs](#).

**6.5.3.22** `public Dictionary< int, Webradio > WebradioManager.Bdd.LoadWebradios ( )`

Loads the webradios from db. All webradio's elements are loaded too.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

The webradios list.

Definition at line [79](#) of file [Bdd.cs](#).



6.5.3.23 `public bool WebradioManager.Bdd.ModifyWebradioName ( string name, int webradiold )`

Modify webradio's name.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>name</i>	The name.
<i>webradiold</i>	Identifier for the webradio.

**Returns**

true if it succeeds, false if it fails or already exist.

Definition at line 1130 of file [Bdd.cs](#).

6.5.3.24 `public bool WebradioManager.Bdd.RemoveFromPlaylist ( int idAudioFile, int idPlaylist )`

Removes an audio file from a playlist.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>idAudioFile</i>	The identifier audio file.
<i>idPlaylist</i>	The identifier playlist.

**Returns**

true if it succeeds, false if it fails.

Definition at line 677 of file [Bdd.cs](#).

6.5.3.25 `public bool WebradioManager.Bdd.TranscoderExist ( string name, int webradiold )`

Transcoder exists.

**Author**

Simon Menetrey

**Date**

26.05.2014

## Parameters

<i>name</i>	The name.
<i>webradiold</i>	Identifier for the webradio.

## Returns

true if it exists, false if it doesn't exist.

Definition at line 870 of file [Bdd.cs](#).

6.5.3.26 `public bool WebradioManager.Bdd.UpdateAudioFile ( AudioFile file ) hh:mm:ss"`

Updates the audio file's values.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>file</i>	The audio file.
-------------	-----------------

## Returns

true if it succeeds, false if it fails.

Definition at line 491 of file [Bdd.cs](#).

6.5.3.27 `public bool WebradioManager.Bdd.UpdateEvent ( CalendarEvent aEvent )`

Updates the event's value.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>aEvent</i>	The event.
---------------	------------

## Returns

true if it succeeds, false if it fails.

Definition at line 812 of file [Bdd.cs](#).

6.5.3.28 `public bool WebradioManager.Bdd.UpdateFileNames ( string oldName, string newName, Webradio webradio )`

Updates the filenames with new webradio's name.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>oldName</i>	Webradio's old name.
<i>newName</i>	Webradio's new name.
<i>webradio</i>	The webradio.

Returns

true if it succeeds, false if it fails.

Definition at line 1162 of file [Bdd.cs](#).

6.5.3.29 `public bool WebradioManager.Bdd.UpdateServer ( int port, string password, string adminPassword, int maxListener, int webradioId )`

Updates the server configuration.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>port</i>	The port.
<i>password</i>	The password.
<i>adminPassword</i>	The admin password.
<i>maxListener</i>	The number of maximum listener.
<i>webradioId</i>	Identifier for the webradio.

Returns

true if it succeeds, false if it fails.

Definition at line 1018 of file [Bdd.cs](#).

6.5.3.30 `public bool WebradioManager.Bdd.UpdateTranscoder ( WebradioTranscoder transcoder )`

Updates the transcoder with transcoder param's values.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>transcoder</i>	The transcoder.
-------------------	-----------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 977 of file [Bdd.cs](#).

**6.5.3.31 public bool WebradioManager.Bdd.WebradioExist ( string *name* )**

[Webradio](#) exists in the db.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>name</i>	The webradio's name.
-------------	----------------------

**Returns**

true if it exists, false if it not exists.

Definition at line 315 of file [Bdd.cs](#).

**6.5.4 Property Documentation****6.5.4.1 public BddControls WebradioManager.Bdd.Controls [get], [set]**

Gets or sets the bdd controls.

**Returns**

The controls.

Definition at line 46 of file [Bdd.cs](#).

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

- [Bdd.cs](#)

## 6.6 WebradioManager.BddControls Class Reference

### Public Member Functions

- DataTable [GetDataTable](#) (string sql)  
*Allows the programmer to run a query against the Database.*
- int [ExecuteNonQuery](#) (string sql)  
*Allows the programmer to interact with the database for purposes other than a query.*
- SQLiteDataReader [ExecuteDataReader](#) (string sql)
- bool [Update](#) (String tableName, Dictionary< String, String > data, String where)  
*Allows the programmer to easily update rows in the DB.*
- bool [Delete](#) (String tableName, String where)  
*Allows the programmer to easily delete rows from the DB.*
- bool [Insert](#) (String tableName, Dictionary< String, String > data)  
*Allows the programmer to easily insert into the DB*
- bool [ClearDB](#) ()  
*Allows the programmer to easily delete all data from the DB.*
- bool [ClearTable](#) (String table)  
*Allows the user to easily clear all data from a specific table.*

### Static Public Member Functions

- static string [ExecuteScalar](#) (string sql)  
*Allows the programmer to retrieve single items from the DB.*

#### 6.6.1 Detailed Description

Definition at line 13 of file [BddControls.cs](#).

#### 6.6.2 Member Function Documentation

##### 6.6.2.1 bool WebradioManager.BddControls.ClearDB ( )

Allows the programmer to easily delete all data from the DB.

##### Returns

A boolean true or false to signify success or failure.

Definition at line 186 of file [BddControls.cs](#).

##### 6.6.2.2 bool WebradioManager.BddControls.ClearTable ( String table )

Allows the user to easily clear all data from a specific table.

##### Parameters

<i>table</i>	The name of the table to clear.
--------------	---------------------------------

##### Returns

A boolean true or false to signify success or failure.

Definition at line 209 of file [BddControls.cs](#).

6.6.2.3 `bool WebradioManager.BddControls.Delete ( String tableName, String where )`

Allows the programmer to easily delete rows from the DB.

## Parameters

<i>tableName</i>	The table from which to delete.
<i>where</i>	The where clause for the delete.

## Returns

A boolean true or false to signify success or failure.

Definition at line 137 of file [BddControls.cs](#).

#### 6.6.2.4 SQLiteDataReader WebradioManager.BddControls.ExecuteDataReader ( string sql )

## Parameters

<i>sql</i>	
------------	--

Definition at line 89 of file [BddControls.cs](#).

#### 6.6.2.5 int WebradioManager.BddControls.ExecuteNonQuery ( string sql )

Allows the programmer to interact with the database for purposes other than a query.

## Parameters

<i>sql</i>	The SQL to be run.
------------	--------------------

## Returns

An Integer containing the number of rows updated.

Definition at line 54 of file [BddControls.cs](#).

#### 6.6.2.6 static string WebradioManager.BddControls.ExecuteScalar ( string sql ) [static]

Allows the programmer to retrieve single items from the DB.

## Parameters

<i>sql</i>	The query to run.
------------	-------------------

## Returns

A string.

Definition at line 70 of file [BddControls.cs](#).

#### 6.6.2.7 DataTable WebradioManager.BddControls.GetDataTable ( string sql )

Allows the programmer to run a query against the Database.

## Parameters

<i>sql</i>	The SQL to run
------------	----------------

## Returns

A DataTable containing the result set.

Definition at line 28 of file [BddControls.cs](#).

6.6.2.8 `bool WebradioManager.BddControls.Insert ( String tableName, Dictionary< String, String > data )`

Allows the programmer to easily insert into the DB



## Parameters

<i>tableName</i>	The table into which we insert the data.
<i>data</i>	A dictionary containing the column names and data for the insert.

## Returns

A boolean true or false to signify success or failure.

Definition at line 158 of file [BddControls.cs](#).

6.6.2.9 `bool WebradioManager.BddControls.Update ( String tableName, Dictionary< String, String > data, String where )`

Allows the programmer to easily update rows in the DB.

## Parameters

<i>tableName</i>	The table to update.
<i>data</i>	A dictionary containing Column names and their new values.
<i>where</i>	The where clause for the update statement.

## Returns

A boolean true or false to signify success or failure.

Definition at line 108 of file [BddControls.cs](#).

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

- [BddControls.cs](#)

## 6.7 WebradioManager.CalendarEvent Class Reference

A calendar event.

### Public Member Functions

- [CalendarEvent](#) (string name, TimeSpan starttime, TimeSpan duration, int repeat, int priority, bool shuffle, bool loopatend, [Playlist](#) playlist)

*Constructor.*

- [CalendarEvent](#) (int id, string name, TimeSpan starttime, TimeSpan duration, int repeat, int priority, bool shuffle, bool loopatend, [Playlist](#) playlist)

*Constructor.*

- [DayWeek GetSelectedDays](#) ()

*Gets selected days from repeat value. [http://wiki.winamp.com/wiki/SHOUTcast\\_Calendar\\_Event\\_XML\\_File\\_Specification#Calendar\\_Tag](http://wiki.winamp.com/wiki/SHOUTcast_Calendar_Event_XML_File_Specification#Calendar_Tag).*

### Properties

- int [Id](#) [get, set]  
*Gets or sets the identifier.*
- [Playlist Playlist](#) [get, set]  
*Gets or sets the playlist.*
- string [Name](#) [get, set]

*Gets or sets the name.*

- TimeSpan [StartTime](#) [get, set]

*Gets or sets the start time.*

- TimeSpan [Duration](#) [get, set]

*Gets or sets the duration.*

- int [Repeat](#) [get, set]

*Gets or sets the repeat's value.*

- bool [Shuffle](#) [get, set]

*Gets or sets a value indicating whether the shuffle.*

- bool [Loopatend](#) [get, set]

*Gets or sets a value indicating whether the loopatend.*

- int [Priority](#) [get, set]

*Gets or sets the priority.*

### 6.7.1 Detailed Description

A calendar event.

Author

Simon Menetrey

Date

26.05.2014

Definition at line 44 of file [CalendarEvent.cs](#).

### 6.7.2 Constructor & Destructor Documentation

6.7.2.1 `public WebradioManager.CalendarEvent.CalendarEvent ( string name, TimeSpan starttime, TimeSpan duration, int repeat, int priority, bool shuffle, bool loopatend, Playlist playlist )`

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>name</i>	The name.
<i>starttime</i>	The starttime.
<i>duration</i>	The duration.
<i>repeat</i>	The repeat.
<i>priority</i>	The priority.

<i>shuffle</i>	true to shuffle.
<i>loopatend</i>	true to loopatend.
<i>playlist</i>	The playlist.

Definition at line 233 of file [CalendarEvent.cs](#).

**6.7.2.2** `public WebradioManager.CalendarEvent.CalendarEvent ( int id, string name, TimeSpan starttime, TimeSpan duration, int repeat, int priority, bool shuffle, bool loopatend, Playlist playlist )`

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>id</i>	The identifier.
<i>name</i>	The name.
<i>starttime</i>	The starttime.
<i>duration</i>	The duration.
<i>repeat</i>	The repeat.
<i>priority</i>	The priority.
<i>shuffle</i>	true to shuffle.
<i>loopatend</i>	true to loopatend.
<i>playlist</i>	The playlist.

Definition at line 258 of file [CalendarEvent.cs](#).

### 6.7.3 Member Function Documentation

**6.7.3.1** `public DayWeek WebradioManager.CalendarEvent.GetSelectedDays ( )`

Gets selected days from repeat value. [http://wiki.winamp.com/wiki/SHOUTcast\\_Calendar\\_Event\\_XML\\_File\\_Specification#Calendar\\_Tag](http://wiki.winamp.com/wiki/SHOUTcast_Calendar_Event_XML_File_Specification#Calendar_Tag).

Author

Simon Menetrey

Date

26.05.2014

Returns

The selected days in [DayWeek](#) structure.

Definition at line 283 of file [CalendarEvent.cs](#).

## 6.7.4 Property Documentation

### 6.7.4.1 `public TimeSpan WebradioManager.CalendarEvent.Duration` `[get]`, `[set]`

Gets or sets the duration.

#### Returns

The duration.

Definition at line 152 of file [CalendarEvent.cs](#).

### 6.7.4.2 `public int WebradioManager.CalendarEvent.Id` `[get]`, `[set]`

Gets or sets the identifier.

#### Returns

The identifier.

Definition at line 96 of file [CalendarEvent.cs](#).

### 6.7.4.3 `public bool WebradioManager.CalendarEvent.Loopatend` `[get]`, `[set]`

Gets or sets a value indicating whether the loopatend.

#### Returns

true if loopatend, false if not.

Definition at line 194 of file [CalendarEvent.cs](#).

### 6.7.4.4 `public string WebradioManager.CalendarEvent.Name` `[get]`, `[set]`

Gets or sets the name.

#### Returns

The name.

Definition at line 124 of file [CalendarEvent.cs](#).

### 6.7.4.5 `public Playlist WebradioManager.CalendarEvent.Playlist` `[get]`, `[set]`

Gets or sets the playlist.

#### Returns

The playlist.

Definition at line 110 of file [CalendarEvent.cs](#).

6.7.4.6 `public int WebradioManager.CalendarEvent.Priority` `[get], [set]`

Gets or sets the priority.

#### Returns

The priority.

Definition at line 208 of file [CalendarEvent.cs](#).

6.7.4.7 `public int WebradioManager.CalendarEvent.Repeat` `[get], [set]`

Gets or sets the repeat's value.

#### Returns

The repeat.

Definition at line 166 of file [CalendarEvent.cs](#).

6.7.4.8 `public bool WebradioManager.CalendarEvent.Shuffle` `[get], [set]`

Gets or sets a value indicating whether the shuffle.

#### Returns

true if shuffle, false if not.

Definition at line 180 of file [CalendarEvent.cs](#).

6.7.4.9 `public TimeSpan WebradioManager.CalendarEvent.StartTime` `[get], [set]`

Gets or sets the start time.

#### Returns

The start time.

Definition at line 138 of file [CalendarEvent.cs](#).

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

- [CalendarEvent.cs](#)

## 6.8 WebradioManager.DayWeek Struct Reference

A week with boolean values for each day. Uses for store which day is selected for an [CalendarEvent](#).

### Public Member Functions

- `bool[] ToArray ()`

### Public Attributes

- `const int DAYS_COUNT = 7`

## Properties

- bool [Monday](#) [get, set]  
*Gets or sets a value indicating whether the monday.*
- bool [Tuesday](#) [get, set]  
*Gets or sets a value indicating whether the tuesday.*
- bool [Wednesday](#) [get, set]  
*Gets or sets a value indicating whether the wednesday.*
- bool [Thursday](#) [get, set]  
*Gets or sets a value indicating whether the thursday.*
- bool [Friday](#) [get, set]  
*Gets or sets a value indicating whether the friday.*
- bool [Saturday](#) [get, set]  
*Gets or sets a value indicating whether the saturday.*
- bool [Sunday](#) [get, set]  
*Gets or sets a value indicating whether the sunday.*

### 6.8.1 Detailed Description

A week with boolean values for each day. Uses for store which day is selected for an [CalendarEvent](#).

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 18 of file [DayWeek.cs](#).

### 6.8.2 Property Documentation

#### 6.8.2.1 public bool WebradioManager.DayWeek.Friday [get], [set]

Gets or sets a value indicating whether the friday.

#### Returns

true if friday, false if not.

Definition at line 109 of file [DayWeek.cs](#).

#### 6.8.2.2 public bool WebradioManager.DayWeek.Monday [get], [set]

Gets or sets a value indicating whether the monday.

#### Returns

true if monday, false if not.

Definition at line 53 of file [DayWeek.cs](#).

**6.8.2.3** `public bool WebradioManager.DayWeek.Saturday` `[get], [set]`

Gets or sets a value indicating whether the saturday.

**Returns**

true if saturday, false if not.

Definition at line 123 of file [DayWeek.cs](#).

**6.8.2.4** `public bool WebradioManager.DayWeek.Sunday` `[get], [set]`

Gets or sets a value indicating whether the sunday.

**Returns**

true if sunday, false if not.

Definition at line 137 of file [DayWeek.cs](#).

**6.8.2.5** `public bool WebradioManager.DayWeek.Thursday` `[get], [set]`

Gets or sets a value indicating whether the thursday.

**Returns**

true if thursday, false if not.

Definition at line 95 of file [DayWeek.cs](#).

**6.8.2.6** `public bool WebradioManager.DayWeek.Tuesday` `[get], [set]`

Gets or sets a value indicating whether the tuesday.

**Returns**

true if tuesday, false if not.

Definition at line 67 of file [DayWeek.cs](#).

**6.8.2.7** `public bool WebradioManager.DayWeek.Wednesday` `[get], [set]`

Gets or sets a value indicating whether the wednesday.

**Returns**

true if wednesday, false if not.

Definition at line 81 of file [DayWeek.cs](#).

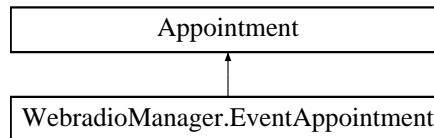
The documentation for this struct was generated from the following file:

- [DayWeek.cs](#)

## 6.9 WebradioManager.EventAppointment Class Reference

An event appointment. Add 2 properties to the original Appointment class (from Calendar library).

Inheritance diagram for WebradioManager.EventAppointment:



### Public Member Functions

- [EventAppointment](#) ()  
*Default constructor.*

### Properties

- [CalendarEvent EventObject](#) [get, set]  
*Gets or sets the event object.*
- [Playlist Playlist](#) [get, set]  
*Gets or sets the playlist.*

### 6.9.1 Detailed Description

An event appointment. Add 2 properties to the original Appointment class (from Calendar library).

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 20 of file [EventAppointment.cs](#).

### 6.9.2 Constructor & Destructor Documentation

#### 6.9.2.1 public WebradioManager.EventAppointment.EventAppointment ( )

Default constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 69 of file [EventAppointment.cs](#).



### 6.9.3 Property Documentation

6.9.3.1 `public CalendarEvent WebradioManager.EventAppointment.EventObject [get], [set]`

Gets or sets the event object.

**Returns**

The event object.

Definition at line 39 of file [EventAppointment.cs](#).

6.9.3.2 `public Playlist WebradioManager.EventAppointment.Playlist [get], [set]`

Gets or sets the playlist.

**Returns**

The playlist.

Definition at line 53 of file [EventAppointment.cs](#).

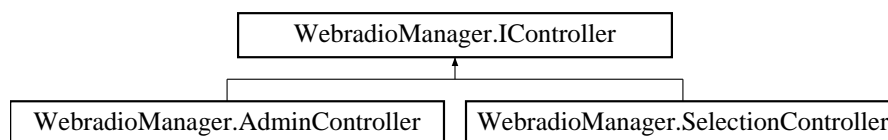
The documentation for this class was generated from the following file:

- [EventAppointment.cs](#)

## 6.10 WebradioManager.IController Interface Reference

Interface for controller.

Inheritance diagram for WebradioManager.IController:



### Public Member Functions

- `void UpdateView ()`  
*Updates the view.*

### 6.10.1 Detailed Description

Interface for controller.

**Author**

Simon Menetrey

## Date

26.05.2014

Definition at line 19 of file [IController.cs](#).

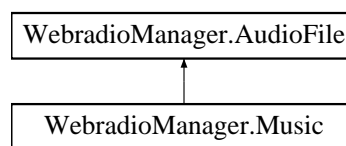
The documentation for this interface was generated from the following file:

- [IController.cs](#)

## 6.11 WebradioManager.Music Class Reference

A music.

Inheritance diagram for WebradioManager.Music:



### Public Member Functions

- [Music](#) (int id, string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender)  
*Constructor.*
- [Music](#) (string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender)  
*Constructor.*

### Additional Inherited Members

#### 6.11.1 Detailed Description

A music.

## Author

Simon Menetrey

## Date

26.05.2014

Definition at line 20 of file [Music.cs](#).

#### 6.11.2 Constructor & Destructor Documentation

- 6.11.2.1 `public WebradioManager.Music.Music ( int id, string filename, string title, string artist, string album, int year, string label, TimeSpan duration, string gender )`

Constructor.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>id</i>	The identifier.
<i>filename</i>	Filename of the audiofile.
<i>title</i>	The title.
<i>artist</i>	The artist.
<i>album</i>	The album.
<i>year</i>	The year.
<i>label</i>	The label.
<i>duration</i>	The duration.
<i>gender</i>	The gender.

Definition at line 42 of file [Music.cs](#).

```
6.11.2.2 public WebradioManager.Music.Music ( string filename, string title, string artist, string album, int year, string label,
        TimeSpan duration, string gender )
```

Constructor.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>filename</i>	Filename of the audiofile.
<i>title</i>	The title.
<i>artist</i>	The artist.
<i>album</i>	The album.
<i>year</i>	The year.
<i>label</i>	The label.
<i>duration</i>	The duration.
<i>gender</i>	The gender.

Definition at line 66 of file [Music.cs](#).

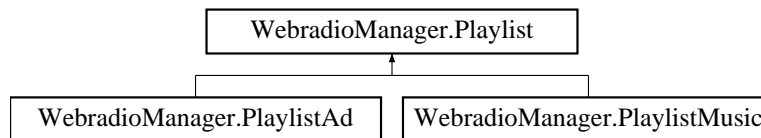
The documentation for this class was generated from the following file:

- [Music.cs](#)

## 6.12 WebradioManager.Playlist Class Reference

A playlist. Abstract class.

Inheritance diagram for WebradioManager.Playlist:



## Public Member Functions

- [Playlist](#) (string name, string filename, [AudioType](#) type)  
*Constructor.*
- [Playlist](#) (int id, string name, string filename, [AudioType](#) type)  
*Constructor.*
- void [GenerateConfigFile](#) ()  
*Generates a configuration file.*
- override string [ToString](#) ()  
*Convert this object into a string representation.*

## Properties

- List< string > [AudioFileList](#) [get, set]  
*Gets or sets a list of audio files's filename.*
- [AudioType](#) Type [get, set]  
*Gets or sets the type.*
- int [Id](#) [get, set]  
*Gets or sets the identifier.*
- string [Filename](#) [get, set]  
*Gets or sets the filename of the file.*
- string [Name](#) [get, set]  
*Gets or sets the name.*

### 6.12.1 Detailed Description

A playlist. Abstract class.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 21 of file [Playlist.cs](#).

### 6.12.2 Constructor & Destructor Documentation

#### 6.12.2.1 public WebradioManager.Playlist.Playlist ( string name, string filename, [AudioType](#) type )

Constructor.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>name</i>	The name.
<i>filename</i>	Filename of the file.
<i>type</i>	The type.

Definition at line 129 of file [Playlist.cs](#).**6.12.2.2 public WebradioManager.Playlist.Playlist ( int *id*, string *name*, string *filename*, AudioType *type* )**

Constructor.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>id</i>	The identifier.
<i>name</i>	The name.
<i>filename</i>	Filename of the file.
<i>type</i>	The type.

Definition at line 148 of file [Playlist.cs](#).**6.12.3 Member Function Documentation****6.12.3.1 public void WebradioManager.Playlist.GenerateConfigFile ( )**

Generates a configuration file.

**Author**

Simon Menetrey

**Date**

26.05.2014

Definition at line 166 of file [Playlist.cs](#).**6.12.3.2 public override string WebradioManager.Playlist.ToString ( )**

Convert this object into a string representation.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

Chaîne qui représente l'objet actif.

summary Retourne une chaîne qui représente l'objet actif.

Definition at line [191](#) of file [Playlist.cs](#).

## 6.12.4 Property Documentation

6.12.4.1 `public List< string > WebradioManager.Playlist.AudioFileList` `[get]`, `[set]`

Gets or sets a list of audio files's filename.

**Returns**

A List of audio files.

Definition at line [52](#) of file [Playlist.cs](#).

6.12.4.2 `public string WebradioManager.Playlist.Filename` `[get]`, `[set]`

Gets or sets the filename of the file.

**Returns**

The filename.

Definition at line [94](#) of file [Playlist.cs](#).

6.12.4.3 `public int WebradioManager.Playlist.Id` `[get]`, `[set]`

Gets or sets the identifier.

**Returns**

The identifier.

Definition at line [80](#) of file [Playlist.cs](#).

6.12.4.4 `public string WebradioManager.Playlist.Name` `[get]`, `[set]`

Gets or sets the name.

**Returns**

The name.

Definition at line [108](#) of file [Playlist.cs](#).

6.12.4.5 `public AudioType WebradioManager.Playlist.Type` `[get]`, `[set]`

Gets or sets the type.

#### Returns

The type.

Definition at line 66 of file [Playlist.cs](#).

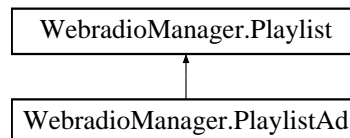
The documentation for this class was generated from the following file:

- [Playlist.cs](#)

## 6.13 WebradioManager.PlaylistAd Class Reference

A playlist ad.

Inheritance diagram for WebradioManager.PlaylistAd:



### Public Member Functions

- [PlaylistAd](#) (int id, string name, string filename)  
*Constructor.*
- [PlaylistAd](#) (string name, string filename)  
*Constructor.*

### Additional Inherited Members

#### 6.13.1 Detailed Description

A playlist ad.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 18 of file [PlaylistAd.cs](#).

#### 6.13.2 Constructor & Destructor Documentation

6.13.2.1 `public WebradioManager.PlaylistAd.PlaylistAd ( int id, string name, string filename )`

Constructor.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>id</i>	The identifier.
<i>name</i>	The name.
<i>filename</i>	Filename of the file.

Definition at line 34 of file [PlaylistAd.cs](#).**6.13.2.2 public WebradioManager.PlaylistAd.PlaylistAd ( string name, string filename )**

Constructor.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>name</i>	The name.
<i>filename</i>	Filename of the file.

Definition at line 51 of file [PlaylistAd.cs](#).

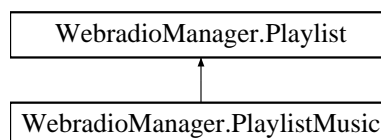
The documentation for this class was generated from the following file:

- [PlaylistAd.cs](#)

**6.14 WebradioManager.PlaylistMusic Class Reference**

A playlist music.

Inheritance diagram for WebradioManager.PlaylistMusic:

**Public Member Functions**

- [PlaylistMusic](#) (int id, string name, string filename)  
Constructor.
- [PlaylistMusic](#) (string name, string filename)  
Constructor.



## Additional Inherited Members

### 6.14.1 Detailed Description

A playlist music.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 18 of file [PlaylistMusic.cs](#).

### 6.14.2 Constructor & Destructor Documentation

#### 6.14.2.1 `public WebradioManager.PlaylistMusic.PlaylistMusic ( int id, string name, string filename )`

Constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>id</i>	The identifier.
<i>name</i>	The name.
<i>filename</i>	Filename of the file.

Definition at line 34 of file [PlaylistMusic.cs](#).

#### 6.14.2.2 `public WebradioManager.PlaylistMusic.PlaylistMusic ( string name, string filename )`

Constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>name</i>	The name.
-------------	-----------

<i>filename</i>	Filename of the file.
-----------------	-----------------------

Definition at line 52 of file [PlaylistMusic.cs](#).

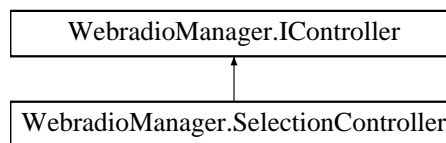
The documentation for this class was generated from the following file:

- [PlaylistMusic.cs](#)

## 6.15 WebradioManager.SelectionController Class Reference

A controller for [SelectionView](#).

Inheritance diagram for WebradioManager.SelectionController:



### Public Member Functions

- [SelectionController](#) ([SelectionView](#) view)  
*Constructor.*
- void [LoadLibrary](#) ()  
*Loads the library.*
- void [LoadWebradios](#) ()  
*Loads the webradios.*
- void [UpdateView](#) ()  
*Updates the view.*
- List< [Webradio](#) > [GetWebradios](#) ()  
*Gets the webradios list.*
- bool [CreateWebradio](#) (string name)  
*Creates a webradio.*
- bool [DeleteWebradio](#) (int id)  
*Deletes the webradio described by ID.*
- bool [DuplicateWebradio](#) (int id)  
*Duplicate webradio described by id.*
- void [OpenWebradio](#) (int id)  
*Opens a webradio described by id in an [AdminView](#).*
- bool [StopAllProcess](#) ()  
*Stops all process.*

### Properties

- [WMMModel Model](#) [get, set]  
*Gets or sets the model.*
- [SelectionView View](#) [get, set]  
*Gets or sets the view.*

### 6.15.1 Detailed Description

A controller for [SelectionView](#).

**Author**

Simon Menetrey

**Date**

26.05.2014

Definition at line 20 of file [SelectionController.cs](#).

### 6.15.2 Constructor & Destructor Documentation

6.15.2.1 `public WebradioManager.SelectionController.SelectionController ( SelectionView view )`

Constructor.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>view</i>	The view.
-------------	-----------

Definition at line 73 of file [SelectionController.cs](#).

### 6.15.3 Member Function Documentation

6.15.3.1 `public bool WebradioManager.SelectionController.CreateWebradio ( string name )`

Creates a webradio.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>name</i>	The webradio's name.
-------------	----------------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 151 of file [SelectionController.cs](#).

### 6.15.3.2 `public bool WebradioManager.SelectionController.DeleteWebradio ( int id )`

Deletes the webradio described by ID.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>id</i>	The identifier.
-----------	-----------------

#### Returns

true if it succeeds, false if it fails.

Definition at line 169 of file [SelectionController.cs](#).

### 6.15.3.3 `public bool WebradioManager.SelectionController.DuplicateWebradio ( int id )`

Duplicate webradio described by id.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>id</i>	The identifier.
-----------	-----------------

#### Returns

true if it succeeds, false if it fails.

Definition at line 187 of file [SelectionController.cs](#).

### 6.15.3.4 `public List< Webradio > WebradioManager.SelectionController.GetWebradios ( )`

Gets the webradios list.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Returns

The webradios list.

Definition at line 133 of file [SelectionController.cs](#).

**6.15.3.5** `public void WebradioManager.SelectionController.LoadLibrary ( )`

Loads the library.

**Author**

Simon Menetrey

**Date**

26.05.2014

Definition at line 89 of file [SelectionController.cs](#).

**6.15.3.6** `public void WebradioManager.SelectionController.LoadWebradios ( )`

Loads the webradios.

**Author**

Simon Menetrey

**Date**

26.05.2014

Definition at line 103 of file [SelectionController.cs](#).

**6.15.3.7** `public void WebradioManager.SelectionController.OpenWebradio ( int id )`

Opens a webradio described by id in an [AdminView](#).

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>id</i>	The identifier.
-----------	-----------------

Definition at line 203 of file [SelectionController.cs](#).

**6.15.3.8** `public bool WebradioManager.SelectionController.StopAllProcess ( )`

Stops all process.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

true if it succeeds, false if it fails.

Definition at line 221 of file [SelectionController.cs](#).

#### 6.15.3.9 public void WebradioManager.SelectionController.UpdateView ( )

Updates the view.

##### Author

Simon Menetrey

##### Date

26.05.2014

Implements [WebradioManager.IController](#).

Definition at line 117 of file [SelectionController.cs](#).

### 6.15.4 Property Documentation

#### 6.15.4.1 public WMMModel WebradioManager.SelectionController.Model [get], [set]

Gets or sets the model.

##### Returns

The model.

Definition at line 40 of file [SelectionController.cs](#).

#### 6.15.4.2 public SelectionView WebradioManager.SelectionController.View [get], [set]

Gets or sets the view.

##### Returns

The view.

Definition at line 54 of file [SelectionController.cs](#).

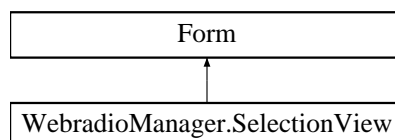
The documentation for this class was generated from the following file:

- [SelectionController.cs](#)

## 6.16 WebradioManager.SelectionView Class Reference

A selection view.

Inheritance diagram for WebradioManager.SelectionView:



## Public Member Functions

- [SelectionView](#) ()  
*Default constructor.*
- void [UpdateView](#) ()  
*Updates the view.*

## Protected Member Functions

- override void [Dispose](#) (bool disposing)  
*Clean up any resources being used.*

## Properties

- [SelectionController Controller](#) [get, set]  
*Gets or sets the controller.*

### 6.16.1 Detailed Description

A selection view.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 22 of file [SelectionView.cs](#).

### 6.16.2 Constructor & Destructor Documentation

#### 6.16.2.1 public WebradioManager.SelectionView.SelectionView ( )

Default constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 62 of file [SelectionView.cs](#).

### 6.16.3 Member Function Documentation

#### 6.16.3.1 override void WebradioManager.SelectionView.Dispose ( bool *disposing* ) [protected]

Clean up any resources being used.

## Parameters

<i>disposing</i>	true if managed resources should be disposed; otherwise, false.
------------------	---

Definition at line 14 of file [SelectionView.Designer.cs](#).

#### 6.16.3.2 public void WebradioManager.SelectionView.UpdateView ( )

Updates the view.

## Author

Simon Menetrey

## Date

26.05.2014

Definition at line 82 of file [SelectionView.cs](#).

### 6.16.4 Property Documentation

#### 6.16.4.1 public SelectionController WebradioManager.SelectionView.Controller [get], [set]

Gets or sets the controller.

## Returns

The controller.

Definition at line 45 of file [SelectionView.cs](#).

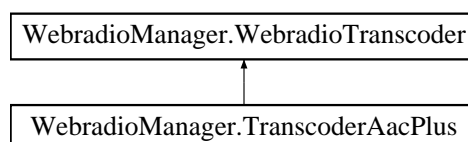
The documentation for this class was generated from the following files:

- [SelectionView.cs](#)
- [SelectionView.Designer.cs](#)

## 6.17 WebradioManager.TranscoderAacPlus Class Reference

A transcoder aac plus.

Inheritance diagram for WebradioManager.TranscoderAacPlus:



### Public Member Functions

- [TranscoderAacPlus](#) (int id, string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logfilename)  
*Constructor.*
- [TranscoderAacPlus](#) (string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logfilename)  
*Constructor.*



## Additional Inherited Members

### 6.17.1 Detailed Description

A transcoder aac plus.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 20 of file [TranscoderAacPlus.cs](#).

### 6.17.2 Constructor & Destructor Documentation

6.17.2.1 `public WebradioManager.TranscoderAacPlus.TranscoderAacPlus ( int id, string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename )`

Constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>id</i>	The identifier.
<i>name</i>	The name.
<i>bitrate</i>	The bitrate.
<i>sampleRate</i>	The sample rate.
<i>ip</i>	The IP.
<i>port</i>	The port.
<i>adminport</i>	The administration port.
<i>url</i>	URL of the stream.
<i>password</i>	The password.
<i>configFilename</i>	Filename of the configuration file.
<i>logFilename</i>	Filename of the log file.

Definition at line 44 of file [TranscoderAacPlus.cs](#).

6.17.2.2 `public WebradioManager.TranscoderAacPlus.TranscoderAacPlus ( string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename )`

Constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

## Parameters

<i>name</i>	The name.
<i>bitrate</i>	The bitrate.
<i>sampleRate</i>	The sample rate.
<i>ip</i>	The IP.
<i>port</i>	The port.
<i>adminport</i>	The administration port.
<i>url</i>	URL of the stream.
<i>password</i>	The password.
<i>configFilename</i>	Filename of the configuration file.
<i>logFilename</i>	Filename of the log file.

Definition at line 70 of file [TranscoderAacPlus.cs](#).

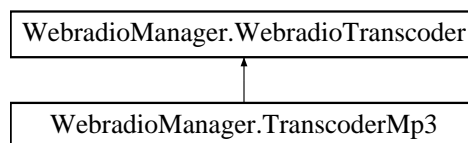
The documentation for this class was generated from the following file:

- [TranscoderAacPlus.cs](#)

## 6.18 WebradioManager.TranscoderMp3 Class Reference

A transcoder mp3.

Inheritance diagram for WebradioManager.TranscoderMp3:



### Public Member Functions

- [TranscoderMp3](#) (int id, string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename)  
*Constructor.*
- [TranscoderMp3](#) (string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename)  
*Constructor.*

### Additional Inherited Members

#### 6.18.1 Detailed Description

A transcoder mp3.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 20 of file [TranscoderMp3.cs](#).

## 6.18.2 Constructor & Destructor Documentation

6.18.2.1 `public WebradioManager.TranscoderMp3.TranscoderMp3 ( int id, string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename )`

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>id</i>	The identifier.
<i>name</i>	The name.
<i>bitrate</i>	The bitrate.
<i>sampleRate</i>	The sample rate.
<i>ip</i>	The IP.
<i>port</i>	The port.
<i>adminport</i>	The administration port.
<i>url</i>	URL of the stream.
<i>password</i>	The password.
<i>configFilename</i>	Filename of the configuration file.
<i>logFilename</i>	Filename of the log file.

Definition at line 44 of file [TranscoderMp3.cs](#).

6.18.2.2 `public WebradioManager.TranscoderMp3.TranscoderMp3 ( string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename )`

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>name</i>	The name.
<i>bitrate</i>	The bitrate.
<i>sampleRate</i>	The sample rate.
<i>ip</i>	The IP.
<i>port</i>	The port.
<i>adminport</i>	The administration port.
<i>url</i>	URL of the stream.

<i>password</i>	The password.
<i>configFilename</i>	Filename of the configuration file.
<i>logFilename</i>	Filename of the log file.

Definition at line 70 of file [TranscoderMp3.cs](#).

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

- [TranscoderMp3.cs](#)

## 6.19 WebradioManager.Webradio Class Reference

A webradio.

### Public Member Functions

- [Webradio](#) (string name, int id)  
*Constructor.*
- [Webradio](#) (string name)  
*Constructor.*
- void [GenerateConfigFiles](#) ()  
*Generates a configuration files.*
- override string [ToString](#) ()  
*Convert this object into a string representation.*

### Properties

- List< [WebradioTranscoder](#) > [Transcoders](#) [get, set]  
*Gets or sets the transcoders list.*
- [WebradioServer](#) [Server](#) [get, set]  
*Gets or sets the server.*
- string [Name](#) [get, set]  
*Gets or sets the name.*
- [WebradioCalendar](#) [Calendar](#) [get, set]  
*Gets or sets the calendar.*
- List< [Playlist](#) > [Playlists](#) [get, set]  
*Gets or sets the playlists list.*
- int [Id](#) [get, set]  
*Gets or sets the identifier.*

### 6.19.1 Detailed Description

A webradio.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 20 of file [Webradio.cs](#).

## 6.19.2 Constructor & Destructor Documentation

### 6.19.2.1 public WebradioManager.Webradio.Webradio ( string *name*, int *id* )

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>name</i>	The name.
<i>id</i>	The identifier.

Definition at line 143 of file [Webradio.cs](#).

### 6.19.2.2 public WebradioManager.Webradio.Webradio ( string *name* )

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>name</i>	The name.
-------------	-----------

Definition at line 162 of file [Webradio.cs](#).

## 6.19.3 Member Function Documentation

### 6.19.3.1 public void WebradioManager.Webradio.GenerateConfigFiles ( )

Generates a configuration files.

Author

Simon Menetrey

Date

26.05.2014

Definition at line 176 of file [Webradio.cs](#).

### 6.19.3.2 public override string WebradioManager.Webradio.ToString ( )

Convert this object into a string representation.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Returns

Chaîne qui représente l'objet actif.

summary Retourne une chaîne qui représente l'objet actif.

Definition at line 203 of file [Webradio.cs](#).

## 6.19.4 Property Documentation

### 6.19.4.1 public WebradioCalendar WebradioManager.Webradio.Calendar [get], [set]

Gets or sets the calendar.

#### Returns

The calendar.

Definition at line 95 of file [Webradio.cs](#).

### 6.19.4.2 public int WebradioManager.Webradio.Id [get], [set]

Gets or sets the identifier.

#### Returns

The identifier.

Definition at line 123 of file [Webradio.cs](#).

### 6.19.4.3 public string WebradioManager.Webradio.Name [get], [set]

Gets or sets the name.

#### Returns

The name.

Definition at line 81 of file [Webradio.cs](#).

### 6.19.4.4 public List< Playlist > WebradioManager.Webradio.Playlists [get], [set]

Gets or sets the playlists list.

#### Returns

The playlists.

Definition at line 109 of file [Webradio.cs](#).

6.19.4.5 `public WebradioServer WebradioManager.Webradio.Server` `[get], [set]`

Gets or sets the server.

#### Returns

The server.

Definition at line 67 of file [Webradio.cs](#).

6.19.4.6 `public List< WebradioTranscoder > WebradioManager.Webradio.Transcoders` `[get], [set]`

Gets or sets the transcoders list.

#### Returns

The transcoders.

Definition at line 53 of file [Webradio.cs](#).

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

- [Webradio.cs](#)

## 6.20 WebradioManager.WebradioCalendar Class Reference

A webradio calendar.

### Public Member Functions

- [WebradioCalendar](#) (int id, string filename)  
*Constructor.*
- [WebradioCalendar](#) (string filename)  
*Constructor.*
- void [GenerateConfigFile](#) ()  
*Generates a configuration file.*

### Properties

- int [Id](#) `[get, set]`  
*Gets or sets the identifier.*
- string [Filename](#) `[get, set]`  
*Gets or sets the filename of the calendar's file.*
- List< [CalendarEvent](#) > [Events](#) `[get, set]`  
*Gets or sets the events.*

### 6.20.1 Detailed Description

A webradio calendar.

#### Author

Simon Menetrey

Date

26.05.2014

Definition at line 22 of file [WebradioCalendar.cs](#).

## 6.20.2 Constructor & Destructor Documentation

6.20.2.1 `public WebradioManager.WebradioCalendar.WebradioCalendar ( int id, string filename )`

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>id</i>	The identifier.
<i>filename</i>	Filename of the file.

Definition at line 92 of file [WebradioCalendar.cs](#).

6.20.2.2 `public WebradioManager.WebradioCalendar.WebradioCalendar ( string filename )`

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>filename</i>	Filename of the file.
-----------------	-----------------------

Definition at line 110 of file [WebradioCalendar.cs](#).

## 6.20.3 Member Function Documentation

6.20.3.1 `public void WebradioManager.WebradioCalendar.GenerateConfigFile ( )`

Generates a configuration file.

Author

Simon Menetrey

Date

26.05.2014

Definition at line 125 of file [WebradioCalendar.cs](#).



### 6.20.4 Property Documentation

6.20.4.1 `public List< CalendarEvent > WebradioManager.WebradioCalendar.Events` `[get]`, `[set]`

Gets or sets the events.

#### Returns

The events.

Definition at line 72 of file [WebradioCalendar.cs](#).

6.20.4.2 `public string WebradioManager.WebradioCalendar.Filename` `[get]`, `[set]`

Gets or sets the filename of the calendar's file.

#### Returns

The filename.

Definition at line 58 of file [WebradioCalendar.cs](#).

6.20.4.3 `public int WebradioManager.WebradioCalendar.Id` `[get]`, `[set]`

Gets or sets the identifier.

#### Returns

The identifier.

Definition at line 44 of file [WebradioCalendar.cs](#).

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

- [WebradioCalendar.cs](#)

## 6.21 WebradioManager.WebradioListener Class Reference

A webradio listener.

### Public Member Functions

- [WebradioListener](#) (string hostname, string useragent, uint connectiontime, int uid)  
*Constructor.*

### Properties

- int [Uid](#) `[get, set]`  
*Gets or sets the UID.*
- uint [ConnectionTime](#) `[get, set]`  
*Gets or sets the connection time.*
- string [Useragent](#) `[get, set]`  
*Gets or sets the useragent.*
- string [Hostname](#) `[get, set]`  
*Gets or sets the hostname.*

### 6.21.1 Detailed Description

A webradio listener.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 19 of file [WebradioListener.cs](#).

### 6.21.2 Constructor & Destructor Documentation

6.21.2.1 `public WebradioManager.WebradioListener.WebradioListener ( string hostname, string useragent, uint connectiontime, int uid )`

Constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>hostname</i>	The hostname.
<i>useragent</i>	The useragent.
<i>connectiontime</i>	The connection time.
<i>uid</i>	The UID.

Definition at line 108 of file [WebradioListener.cs](#).

### 6.21.3 Property Documentation

6.21.3.1 `public uint WebradioManager.WebradioListener.ConnectionTime [get], [set]`

Gets or sets the connection time.

#### Returns

The connection time.

Definition at line 57 of file [WebradioListener.cs](#).

6.21.3.2 `public string WebradioManager.WebradioListener.Hostname [get], [set]`

Gets or sets the hostname.

#### Returns

The hostname.

Definition at line 85 of file [WebradioListener.cs](#).

6.21.3.3 `public int WebradioManager.WebradioListener.Uid` `[get]`, `[set]`

Gets or sets the UID.

Returns

The UID.

Definition at line 43 of file [WebradioListener.cs](#).

6.21.3.4 `public string WebradioManager.WebradioListener.Useragent` `[get]`, `[set]`

Gets or sets the useragent.

Returns

The useragent.

Definition at line 71 of file [WebradioListener.cs](#).

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

- [WebradioListener.cs](#)

## 6.22 WebradioManager.WebradioServer Class Reference

A shoutcast webradio server.

### Public Member Functions

- [WebradioServer](#) (int port, string logFilename, string configFilename, string password, string adminPassword, int maxListener)  
*Constructor.*
- void [GenerateConfigFile](#) ()  
*Generates the configuration file.*
- bool [IsRunning](#) ()  
*Query if the process is running.*
- bool [Start](#) (bool debug)  
*Starts the process.*
- bool [Stop](#) ()  
*Stops the process.*
- bool [UpdateStats](#) ()  
*Updates the statistics.*
- List< [WebradioListener](#) > [GetListeners](#) ()  
*Gets the list of listeners.*

### Public Attributes

- const string **DEFAULT\_ADMIN\_LOGIN** = "admin"

## Properties

- string [WebInterfaceUrl](#) [get]  
*Gets URL of the web interface.*
- string [WebAdminUrl](#) [get]  
*Gets URL of the web admin.*
- int [MaxListener](#) [get, set]  
*Gets or sets the number of maximum listener.*
- Process [Process](#) [get, set]  
*Gets or sets the process.*
- string [LogFilename](#) [get, set]  
*Gets or sets the filename of the log file.*
- string [ConfigFilename](#) [get, set]  
*Gets or sets the filename of the configuration file.*
- string [Password](#) [get, set]  
*Gets or sets the password.*
- string [AdminPassword](#) [get, set]  
*Gets or sets the admin password.*
- int [Port](#) [get, set]  
*Gets or sets the port.*

### 6.22.1 Detailed Description

A shoutcast webradio server.

#### Author

Simon Menetrey

#### Date

21.05.2014

Definition at line 26 of file [WebradioServer.cs](#).

### 6.22.2 Constructor & Destructor Documentation

6.22.2.1 `public WebradioManager.WebradioServer.WebradioServer ( int port, string logfile, string configfilename, string password, string adminPassword, int maxlistener )`

Constructor.

#### Author

Simon Menetrey

#### Date

21.05.2014

## Parameters

<i>port</i>	The port.
<i>logfilename</i>	The filename of the log file.
<i>configfilename</i>	The filename of the configuration file.
<i>password</i>	The password.
<i>adminPassword</i>	The admin password.
<i>maxlistener</i>	The number of max listener.

Definition at line 218 of file [WebradioServer.cs](#).

### 6.22.3 Member Function Documentation

#### 6.22.3.1 public void WebradioManager.WebradioServer.GenerateConfigFile ( )

Generates the configuration file.

## Author

Simon Menetrey

## Date

21.05.2014

Definition at line 238 of file [WebradioServer.cs](#).

#### 6.22.3.2 public List< WebradioListener > WebradioManager.WebradioServer.GetListeners ( )

Gets the list of listeners.

## Author

Simon Menetrey

## Date

21.05.2014

## Returns

The list of listeners.

Definition at line 421 of file [WebradioServer.cs](#).

#### 6.22.3.3 public bool WebradioManager.WebradioServer.IsRunning ( )

Query if the process is running.

## Author

Simon Menetrey

## Date

21.05.2014

## Returns

true if running, false if not.

Definition at line 265 of file [WebradioServer.cs](#).

#### 6.22.3.4 public bool WebradioManager.WebradioServer.Start ( bool *debug* )

Starts the process.

##### Author

Simon Menetrey

##### Date

21.05.2014

##### Parameters

<i>debug</i>	True to debug mode.
--------------	---------------------

##### Returns

true if it succeeds, false if it fails.

Definition at line 298 of file [WebradioServer.cs](#).

#### 6.22.3.5 public bool WebradioManager.WebradioServer.Stop ( )

Stops the process.

##### Author

Simon Menetrey

##### Date

21.05.2014

##### Returns

true if it succeeds, false if it fails.

Definition at line 330 of file [WebradioServer.cs](#).

#### 6.22.3.6 public bool WebradioManager.WebradioServer.UpdateStats ( )

Updates the statistics.

##### Author

Simon Menetrey

##### Date

21.05.2014

##### Returns

true if it succeeds, false if it fails.

Definition at line 385 of file [WebradioServer.cs](#).

### 6.22.4 Property Documentation

6.22.4.1 `public string WebradioManager.WebradioServer.AdminPassword` `[get]`, `[set]`

Gets or sets the admin password.

#### Returns

The admin password.

Definition at line 180 of file [WebradioServer.cs](#).

6.22.4.2 `public string WebradioManager.WebradioServer.ConfigFilename` `[get]`, `[set]`

Gets or sets the filename of the configuration file.

#### Returns

The filename of the configuration file.

Definition at line 152 of file [WebradioServer.cs](#).

6.22.4.3 `public string WebradioManager.WebradioServer.LogFilename` `[get]`, `[set]`

Gets or sets the filename of the log file.

#### Returns

The filename of the log file.

Definition at line 138 of file [WebradioServer.cs](#).

6.22.4.4 `public int WebradioManager.WebradioServer.MaxListener` `[get]`, `[set]`

Gets or sets the number of maximum listener.

#### Returns

The maximum listener.

Definition at line 110 of file [WebradioServer.cs](#).

6.22.4.5 `public string WebradioManager.WebradioServer.Password` `[get]`, `[set]`

Gets or sets the password.

#### Returns

The password.

Definition at line 166 of file [WebradioServer.cs](#).

6.22.4.6 `public int WebradioManager.WebradioServer.Port [get], [set]`

Gets or sets the port.

**Returns**

The port.

Definition at line 194 of file [WebradioServer.cs](#).

6.22.4.7 `public Process WebradioManager.WebradioServer.Process [get], [set]`

Gets or sets the process.

**Returns**

The process.

Definition at line 124 of file [WebradioServer.cs](#).

6.22.4.8 `public string WebradioManager.WebradioServer.WebAdminUrl [get]`

Gets URL of the web admin.

**Returns**

The web admin URL.

Definition at line 94 of file [WebradioServer.cs](#).

6.22.4.9 `public string WebradioManager.WebradioServer.WebInterfaceUrl [get]`

Gets URL of the web interface.

**Returns**

The web interface URL.

Definition at line 78 of file [WebradioServer.cs](#).

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

- [WebradioServer.cs](#)

## 6.23 WebradioManager.WebradioServerStats Class Reference

A webradio server statistics.

### Public Member Functions

- [WebradioServerStats \(\)](#)

*Default constructor.*



## Properties

- TimeSpan [AverageTime](#) [get, set]  
*Gets or sets the average time listening.*
- int [PeakListeners](#) [get, set]  
*Gets or sets the peak listeners count.*
- int [UniqueListeners](#) [get, set]  
*Gets or sets the unique listeners count.*
- int [CurrentListeners](#) [get, set]  
*Gets or sets the current listeners count.*

### 6.23.1 Detailed Description

A webradio server statistics.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 20 of file [WebradioServerStats.cs](#).

### 6.23.2 Constructor & Destructor Documentation

#### 6.23.2.1 public WebradioManager.WebradioServerStats.WebradioServerStats ( )

Default constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 103 of file [WebradioServerStats.cs](#).

### 6.23.3 Property Documentation

#### 6.23.3.1 public TimeSpan WebradioManager.WebradioServerStats.AverageTime [get], [set]

Gets or sets the average time listening.

#### Returns

The average time.

Definition at line 44 of file [WebradioServerStats.cs](#).

6.23.3.2 `public int WebradioManager.WebradioServerStats.CurrentListeners` `[get], [set]`

Gets or sets the current listeners count.

#### Returns

The current listeners.

Definition at line 86 of file [WebradioServerStats.cs](#).

6.23.3.3 `public int WebradioManager.WebradioServerStats.PeakListeners` `[get], [set]`

Gets or sets the peak listeners count.

#### Returns

The peak listeners.

Definition at line 58 of file [WebradioServerStats.cs](#).

6.23.3.4 `public int WebradioManager.WebradioServerStats.UniqueListeners` `[get], [set]`

Gets or sets the unique listeners count.

#### Returns

The unique listeners.

Definition at line 72 of file [WebradioServerStats.cs](#).

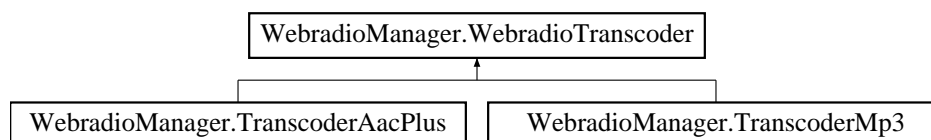
The documentation for this class was generated from the following file:

- [WebradioServerStats.cs](#)

## 6.24 WebradioManager.WebradioTranscoder Class Reference

A webradio transcoder.

Inheritance diagram for WebradioManager.WebradioTranscoder:



### Public Member Functions

- [WebradioTranscoder](#) (string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename, [StreamType](#) st)  
*Constructor.*
- [WebradioTranscoder](#) (int id, string name, int bitrate, int sampleRate, IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename, [StreamType](#) st)  
*Constructor.*

- void **GenerateConfigFile** (List< **Playlist** > playlists)  
*Generates a configuration file.*
- bool **IsRunning** ()  
*Query if this transcoder's process is running.*
- bool **Start** (bool debug)  
*Starts the transcoder's process.*
- bool **Stop** ()  
*Stops the transcoder's process.*
- string **GetStatus** ()  
*Gets the transcoder's status. [http://wiki.winamp.com/wiki/SHOUTcast\\_Transcoder\\_AJAX\\_api\\_Specification#GetStatus](http://wiki.winamp.com/wiki/SHOUTcast_Transcoder_AJAX_api_Specification#GetStatus).*
- void **SetCaptureMode** (bool active, string device)  
*Sets capture mode.*
- void **NextTrack** ()  
*Go to next track.*
- override string **ToString** ()  
*Convert this object into a string representation.*

## Public Attributes

- const string **DEFAULT\_CONFIG\_EXTENSION** = ".config"
- const string **DEFAULT\_LOG\_EXTENSION** = ".log"
- const string **DEFAULT\_ADMIN** = "admin"
- const string **DEFAULT\_ADMIN\_PASSWORD** = "admin"

## Properties

- bool **Capture** [get, set]  
*Gets or sets a value indicating whether the capture.*
- string **CurrentTrack** [get, set]  
*Gets or sets the current track's filename.*
- int **AdminPort** [get, set]  
*Gets or sets the admin port.*
- string **CalendarFile** [get, set]  
*Gets or sets the calendar file.*
- Process **Process** [get, set]  
*Gets or sets the process.*
- static int[] **AvailableSampleRates** [get, set]
- static int[] **AvailableBitrates** [get, set]
- int **Id** [get, set]  
*Gets or sets the identifier.*
- int **Birate** [get, set]  
*Gets or sets the birate.*
- int **SampleRate** [get, set]  
*Gets or sets the sample rate.*
- string **Name** [get, set]  
*Gets or sets the name.*
- string **Url** [get, set]  
*Gets or sets URL of the document.*
- IPAddress **Ip** [get, set]  
*Gets or sets the IP.*

- int [Port](#) [get, set]  
*Gets or sets the port.*
- string [Password](#) [get, set]  
*Gets or sets the password.*
- string [ConfigFilename](#) [get, set]  
*Gets or sets the filename of the configuration file.*
- string [LogFilename](#) [get, set]  
*Gets or sets the filename of the log file.*
- [StreamType](#) [StreamType](#) [get, set]  
*Gets or sets the type of the stream.*

### 6.24.1 Detailed Description

A webradio transcoder.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 24 of file [WebradioTranscoder.cs](#).

### 6.24.2 Constructor & Destructor Documentation

6.24.2.1 public WebradioManager.WebradioTranscoder.WebradioTranscoder ( string *name*, int *bitrate*, int *sampleRate*, IPAddress *ip*, int *port*, int *adminport*, string *url*, string *password*, string *configFilename*, string *logFilename*, StreamType *st* )

Constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>name</i>	The name.
<i>bitrate</i>	The bitrate.
<i>sampleRate</i>	The sample rate.
<i>ip</i>	The IP.
<i>port</i>	The port.
<i>adminport</i>	The adminport.
<i>url</i>	URL of the document.

<i>password</i>	The password.
<i>configFilename</i>	Filename of the configuration file.
<i>logFilename</i>	Filename of the log file.
<i>st</i>	The st.

Definition at line 363 of file [WebradioTranscoder.cs](#).

```
6.24.2.2 public WebradioManager.WebradioTranscoder.WebradioTranscoder ( int id, string name, int bitrate, int sampleRate,  
IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename,  
StreamType st )
```

Constructor.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>id</i>	The identifier.
<i>name</i>	The name.
<i>bitrate</i>	The bitrate.
<i>sampleRate</i>	The sample rate.
<i>ip</i>	The IP.
<i>port</i>	The port.
<i>adminport</i>	The adminport.
<i>url</i>	URL of the document.
<i>password</i>	The password.
<i>configFilename</i>	Filename of the configuration file.
<i>logFilename</i>	Filename of the log file.
<i>st</i>	The st.

Definition at line 391 of file [WebradioTranscoder.cs](#).

### 6.24.3 Member Function Documentation

```
6.24.3.1 public void WebradioManager.WebradioTranscoder.GenerateConfigFile ( List< Playlist > playlists )
```

Generates a configuration file.

Author

Simon Menetrey

Date

26.05.2014

## Parameters

<i>playlists</i>	The playlists.
------------------	----------------

Definition at line 421 of file [WebradioTranscoder.cs](#).

#### 6.24.3.2 public string WebradioManager.WebradioTranscoder.GetStatus ( )

Gets the transcoder's status. [http://wiki.winamp.com/wiki/SHOUTcast\\_Transcoder\\_AJAX\\_api\\_Specification#GetStatus](http://wiki.winamp.com/wiki/SHOUTcast_Transcoder_AJAX_api_Specification#GetStatus).

## Author

Simon Menetrey

## Date

26.05.2014

## Returns

The status (XML).

Definition at line 567 of file [WebradioTranscoder.cs](#).

#### 6.24.3.3 public bool WebradioManager.WebradioTranscoder.IsRunning ( )

Query if this transcoder's process is running.

## Author

Simon Menetrey

## Date

26.05.2014

## Returns

true if running, false if not.

Definition at line 467 of file [WebradioTranscoder.cs](#).

#### 6.24.3.4 public void WebradioManager.WebradioTranscoder.NextTrack ( )

Go to next track.

## Author

Simon Menetrey

## Date

26.05.2014

Definition at line 626 of file [WebradioTranscoder.cs](#).

6.24.3.5 `public void WebradioManager.WebradioTranscoder.SetCaptureMode ( bool active, string device )`

Sets capture mode.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>active</i>	true to active.
<i>device</i>	The device name.

Definition at line 597 of file [WebradioTranscoder.cs](#).

6.24.3.6 `public bool WebradioManager.WebradioTranscoder.Start ( bool debug )`

Starts the transcoder's process.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>debug</i>	true to debug.
--------------	----------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 503 of file [WebradioTranscoder.cs](#).

6.24.3.7 `public bool WebradioManager.WebradioTranscoder.Stop ( )`

Stops the transcoder's process.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

true if it succeeds, false if it fails.

Definition at line 537 of file [WebradioTranscoder.cs](#).

6.24.3.8 `public override string WebradioManager.WebradioTranscoder.ToString ( )`

Convert this object into a string representation.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

Chaîne qui représente l'objet actif.

summary Retourne une chaîne qui représente l'objet actif.

Definition at line 649 of file [WebradioTranscoder.cs](#).

## 6.24.4 Property Documentation

6.24.4.1 `public int WebradioManager.WebradioTranscoder.AdminPort [get], [set]`

Gets or sets the admin port.

**Returns**

The admin port.

Definition at line 124 of file [WebradioTranscoder.cs](#).

6.24.4.2 `public int WebradioManager.WebradioTranscoder.Birate [get], [set]`

Gets or sets the birate.

**Returns**

The birate.

Definition at line 208 of file [WebradioTranscoder.cs](#).

6.24.4.3 `public string WebradioManager.WebradioTranscoder.CalendarFile [get], [set]`

Gets or sets the calendar file.

**Returns**

The calendar file.

Definition at line 138 of file [WebradioTranscoder.cs](#).

6.24.4.4 `public bool WebradioManager.WebradioTranscoder.Capture [get], [set]`

Gets or sets a value indicating whether the capture.

**Returns**

true if capture, false if not.

Definition at line 96 of file [WebradioTranscoder.cs](#).



6.24.4.5 `public string WebradioManager.WebradioTranscoder.ConfigFilename` `[get], [set]`

Gets or sets the filename of the configuration file.

**Returns**

The filename of the configuration file.

Definition at line 306 of file [WebradioTranscoder.cs](#).

6.24.4.6 `public string WebradioManager.WebradioTranscoder.CurrentTrack` `[get], [set]`

Gets or sets the current track's filename.

**Returns**

The current track.

Definition at line 110 of file [WebradioTranscoder.cs](#).

6.24.4.7 `public int WebradioManager.WebradioTranscoder.Id` `[get], [set]`

Gets or sets the identifier.

**Returns**

The identifier.

Definition at line 194 of file [WebradioTranscoder.cs](#).

6.24.4.8 `public IPAddress WebradioManager.WebradioTranscoder.Ip` `[get], [set]`

Gets or sets the IP.

**Returns**

The IP.

Definition at line 264 of file [WebradioTranscoder.cs](#).

6.24.4.9 `public string WebradioManager.WebradioTranscoder.LogFilename` `[get], [set]`

Gets or sets the filename of the log file.

**Returns**

The filename of the log file.

Definition at line 320 of file [WebradioTranscoder.cs](#).

6.24.4.10 `public string WebradioManager.WebradioTranscoder.Name` `[get], [set]`

Gets or sets the name.

**Returns**

The name.

Definition at line 236 of file [WebradioTranscoder.cs](#).

6.24.4.11 `public string WebradioManager.WebradioTranscoder.Password [get], [set]`

Gets or sets the password.

**Returns**

The password.

Definition at line 292 of file [WebradioTranscoder.cs](#).

6.24.4.12 `public int WebradioManager.WebradioTranscoder.Port [get], [set]`

Gets or sets the port.

**Returns**

The port.

Definition at line 278 of file [WebradioTranscoder.cs](#).

6.24.4.13 `public Process WebradioManager.WebradioTranscoder.Process [get], [set]`

Gets or sets the process.

**Returns**

The process.

Definition at line 152 of file [WebradioTranscoder.cs](#).

6.24.4.14 `public int WebradioManager.WebradioTranscoder.SampleRate [get], [set]`

Gets or sets the sample rate.

**Returns**

The sample rate.

Definition at line 222 of file [WebradioTranscoder.cs](#).

6.24.4.15 `public StreamType WebradioManager.WebradioTranscoder.StreamType [get], [set]`

Gets or sets the type of the stream.

**Returns**

The type of the stream.

Definition at line 334 of file [WebradioTranscoder.cs](#).

6.24.4.16 `public string WebradioManager.WebradioTranscoder.Url [get], [set]`

Gets or sets URL of the document.

### Returns

The URL.

Definition at line 250 of file [WebradioTranscoder.cs](#).

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

- [WebradioTranscoder.cs](#)

## 6.25 WebradioManager.WMModel Class Reference

A data Model for the [WebradioManager](#) project.

### Public Member Functions

- [WMModel](#) ()  
*Default constructor.*
- void [AddObserver](#) ([IController](#) observer)  
*Adds an observer.*
- void [RemoveObserver](#) ([IController](#) observer)  
*Removes the observer described by observer.*
- int [GetSimiliarViewCount](#) (int webradioid)  
*Gets similiar view count.*
- void [LoadLibrary](#) ()  
*Loads the library.*
- void [CheckFolders](#) (int webradioid)  
*Check folders.*
- void [LoadWebradios](#) ()  
*Loads the webradios.*
- [Webradio](#) [GetWebradio](#) (int id)  
*Gets a webradio.*
- [Webradio](#) [GetWebradioByName](#) (string name)  
*Gets webradio by name.*
- List< [Webradio](#) > [GetWebradios](#) ()  
*Gets the webradios list.*
- bool [CreateWebradio](#) (string name)  
*Creates a webradio.*
- bool [DeleteWebradio](#) (int id)  
*Deletes the webradio described by ID.*
- bool [DuplicateWebradio](#) (int id)  
*Duplicate webradio.*
- List< [AudioFile](#) > [GetLibrary](#) ()  
*Gets the library.*
- List< string > [GetGenders](#) ()  
*Gets the genders list.*
- bool [ImportFilesToLibrary](#) (string[] filenames, [AudioType](#) type)  
*Import files to library.*
- bool [DeleteAudioFile](#) (int id, string audioFilename)  
*Deletes the audio file.*
- bool [UpdateAudioFile](#) ([AudioFile](#) file)

- Updates the audio file with param one's value. Retag file.*

  - bool [CreatePlaylist](#) (string name, string webradioName, int webradiold, [AudioType](#) type, out [Playlist](#) new-Playlist)

*Creates a playlist.*
- bool [DeletePlaylist](#) ([Playlist](#) playlist, int webradiold)

*Deletes the playlist.*
- bool [AddToPlaylist](#) ([Playlist](#) playlist, Dictionary< int, string > audioFiles)

*Adds to the playlist.*
- bool [RemoveFromPlaylist](#) (Dictionary< int, string > audioFiles, [Playlist](#) playlist)

*Removes from playlist.*
- List< [AudioFile](#) > [GetPlaylistContent](#) ([Playlist](#) playlist)

*Gets playlist content.*
- bool [GeneratePlaylist](#) (string name, TimeSpan duration, [AudioType](#) type, string gender, int webradiold, string webradioName)

*Generates a playlist.*
- bool [CreateEvent](#) ([CalendarEvent](#) newEvent, int webradiold)

*Creates an event.*
- bool [UpdateEvent](#) ([CalendarEvent](#) aEvent, int webradiold)

*Updates the event with param one's values.*
- bool [DeleteEvent](#) ([CalendarEvent](#) aEvent, int webradiold)

*Deletes the event.*
- bool [CreateTranscoder](#) (string name, [StreamType](#) st, int sampleRate, int bitrate, string url, IPAddress ip, int port, int adminport, string password, int webradiold)

*Creates a transcoder.*
- bool [DeleteTranscoder](#) ([WebradioTranscoder](#) transcoder, int webradiold)

*Deletes the transcoder.*
- bool [UpdateTranscoder](#) ([WebradioTranscoder](#) transcoder, bool debug, int webradiold)

*Updates the transcoder.*
- bool [StartTranscoder](#) ([WebradioTranscoder](#) transcoder, bool debug, int webradiold)

*Starts a transcoder.*
- bool [StopTranscoder](#) ([WebradioTranscoder](#) transcoder, int webradiold)

*Stops a transcoder.*
- bool [StopAllProcess](#) (int webradiold)

*Stops all process of a webradio.*
- bool [StopAllProcess](#) ()

*Stops all process of the program.*
- void [GenerateConfigFiles](#) (int webradiold)

*Generates a configuration files.*
- bool [UpdateServer](#) (bool debug, int port, string password, string adminPassword, int maxListener, int webradiold)

*Updates the server.*
- bool [StartServer](#) (int webradiold, bool debug)

*Starts a server.*
- bool [StopServer](#) (int webradiold)

*Stops a server.*
- void [ShowServerWebInterface](#) (int webradiold)

*Shows the server web interface.*
- void [ShowServerWebAdmin](#) (int webradiold)

*Shows the server web admin.*
- bool [TranscoderNextTrack](#) ([WebradioTranscoder](#) transcoder)

*Transcoder goes next track.*

- bool [ClearHistory](#) (int transcoderId)  
*Clears the transcoder's history described by transcoderId.*
- bool [GenerateHistory](#) (int webradioId, string transcoderName, int transcoderId, string outputFilename)  
*Generates a transcoder's history.*
- [AudioFile GetAudioFileByFilename](#) (string filename)  
*Gets audio file by filename.*
- bool [ModifyWebradioName](#) (string newName, int webradioId)  
*Modify webradio name.*
- bool [TranscoderCapture](#) (bool active, string device, [WebradioTranscoder](#) transcoder, int webradioId)  
*Transcoder capture set.*
- List< [WebradioListener](#) > [UpdateServerListeners](#) (int webradioId)  
*Updates the webradio's server listeners.*
- bool [UpdateServerStats](#) (int webradioId)  
*Updates the webradio's server statistics.*
- bool [CheckLibrary](#) ()  
*Check if audio files from library exists on the disc.*

## Public Attributes

- const string **DEFAULT\_WEBRADIOS\_FOLDER** = "webradios/"
- const string **DEFAULT\_SHOUTCAST\_FOLDER** = "shoutcast/"
- const string **DEFAULT\_CALENDAR\_FILENAME** = "calendar.xml"

## Properties

- List< [WebradioServer](#) > [ActiveServers](#) [get, set]  
*Gets or sets the active servers list.*
- List< [WebradioTranscoder](#) > [ActiveTranscoders](#) [get, set]  
*Gets or sets the active transcoders list.*
- System.Windows.Forms.Timer [ProcessWatcher](#) [get, set]  
*Gets or sets the process watcher.*
- [Bdd Bdd](#) [get, set]  
*Gets or sets the bdd.*
- List< [IController](#) > [Observers](#) [get, set]  
*Gets or sets the observers.*
- Dictionary< int, [Webradio](#) > [Webradios](#) [get, set]  
*Gets or sets the webradios.*
- List< [AudioFile](#) > [Library](#) [get, set]  
*Gets or sets the library.*

### 6.25.1 Detailed Description

A data Model for the [WebradioManager](#) project.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 28 of file [WMMModel.cs](#).

## 6.25.2 Constructor & Destructor Documentation

### 6.25.2.1 public WebradioManager.WMMModel.WMMModel ( )

Default constructor.

#### Author

Simon Menetrey

#### Date

26.05.2014

Definition at line 199 of file [WMMModel.cs](#).

## 6.25.3 Member Function Documentation

### 6.25.3.1 public void WebradioManager.WMMModel.AddObserver ( IController *observer* )

Adds an observer.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>observer</i>	The observer.
-----------------	---------------

Definition at line 309 of file [WMMModel.cs](#).

### 6.25.3.2 public bool WebradioManager.WMMModel.AddToPlaylist ( Playlist *playlist*, Dictionary< int, string > *audioFiles* )

Adds to the playlist.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>playlist</i>	The playlist.
<i>audioFiles</i>	The audio files.

#### Returns

true if it succeeds, false if it fails.

Definition at line 1025 of file [WMMModel.cs](#).

### 6.25.3.3 public void WebradioManager.WMModel.CheckFolders ( int *webradiold* )

Check folders.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>webradiold</i>	Identifier for the webradio.
-------------------	------------------------------

Definition at line 422 of file [WMModel.cs](#).

### 6.25.3.4 public bool WebradioManager.WMModel.CheckLibrary ( )

Check if audio files from library exists on the disc.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Returns

true if it succeeds, false if it fails.

Definition at line 1930 of file [WMModel.cs](#).

### 6.25.3.5 public bool WebradioManager.WMModel.ClearHistory ( int *transcoderId* )

Clears the transcoder's history described by transcoderId.

#### Author

Simon Menetrey

#### Date

26.05.2014

#### Parameters

<i>transcoderId</i>	Identifier for the transcoder.
---------------------	--------------------------------

#### Returns

true if it succeeds, false if it fails.

Definition at line 1725 of file [WMModel.cs](#).

6.25.3.6 `public bool WebradioManager.WMModel.CreateEvent ( CalendarEvent newEvent, int webradiold )`

Creates an event.

Author

Simon Menetrey

Date

26.05.2014

Parameters

<i>newEvent</i>	The new event.
<i>webradiold</i>	Identifier for the webradio.

Returns

true if it succeeds, false if it fails.

Definition at line 1194 of file [WMModel.cs](#).

6.25.3.7 `public bool WebradioManager.WMModel.CreatePlaylist ( string name, string webradioName, int webradiold, AudioType type, out Playlist newPlaylist )`

Creates a playlist.

Author

Simon Menetrey

Date

26.05.2014

Parameters

	<i>name</i>	The name.
	<i>webradioName</i>	Name of the webradio.
	<i>webradiold</i>	Identifier for the webradio.
	<i>type</i>	The type.
out	<i>newPlaylist</i>	The new playlist.

Returns

true if it succeeds, false if it fails.

Definition at line 944 of file [WMModel.cs](#).

6.25.3.8 `public bool WebradioManager.WMModel.CreateTranscoder ( string name, StreamType st, int sampleRate, int bitrate, string url, IPAddress ip, int port, int adminport, string password, int webradiold )`

Creates a transcoder.

Author

Simon Menetrey

Date

26.05.2014



## Parameters

<i>name</i>	The name.
<i>st</i>	The st.
<i>sampleRate</i>	The sample rate.
<i>bitrate</i>	The bitrate.
<i>url</i>	URL of the document.
<i>ip</i>	The IP.
<i>port</i>	The port.
<i>adminport</i>	The administration port.
<i>password</i>	The password.
<i>webradioId</i>	Identifier for the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 1292 of file [WMModel.cs](#).

#### 6.25.3.9 public bool WebradioManager.WMModel.CreateWebradio ( string *name* )

Creates a webradio.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>name</i>	The name.
-------------	-----------

## Returns

true if it succeeds, false if it fails.

Definition at line 526 of file [WMModel.cs](#).

#### 6.25.3.10 public bool WebradioManager.WMModel.DeleteAudioFile ( int *id*, string *audioFilename* )

Deletes the audio file.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>id</i>	The identifier.
<i>audioFilename</i>	Filename of the audio file.

## Returns

true if it succeeds, false if it fails.

Definition at line 802 of file [WMMModel.cs](#).

6.25.3.11 `public bool WebradioManager.WMMModel.DeleteEvent ( CalendarEvent aEvent, int webradiold )`

Deletes the event.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>aEvent</i>	The event.
<i>webradiold</i>	Identifier for the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 1257 of file [WMMModel.cs](#).

6.25.3.12 `public bool WebradioManager.WMMModel.DeletePlaylist ( Playlist playlist, int webradiold )`

Deletes the playlist.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>playlist</i>	The playlist.
<i>webradiold</i>	Identifier for the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 997 of file [WMMModel.cs](#).

6.25.3.13 `public bool WebradioManager.WMModel.DeleteTranscoder ( WebradioTranscoder transcoder, int webradioid )`

Deletes the transcoder.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>transcoder</i>	The transcoder.
<i>webradioid</i>	Identifier for the webradio.

**Returns**

true if it succeeds, false if it fails.

Definition at line 1347 of file [WMModel.cs](#).

6.25.3.14 `public bool WebradioManager.WMModel.DeleteWebradio ( int id )`

Deletes the webradio described by ID.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>id</i>	The identifier.
-----------	-----------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 574 of file [WMModel.cs](#).

6.25.3.15 `public bool WebradioManager.WMModel.DuplicateWebradio ( int id )`

Duplicate webradio.

**Author**

Simon Menetrey

**Date**

26.05.2014

## Parameters

<i>id</i>	The identifier.
-----------	-----------------

## Returns

true if it succeeds, false if it fails.

Definition at line 648 of file [WMMModel.cs](#).

6.25.3.16 `public void WebradioManager.WMMModel.GenerateConfigFiles ( int webradioid )`

Generates a configuration files.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>webradioid</i>	Identifier for the webradio.
-------------------	------------------------------

Definition at line 1546 of file [WMMModel.cs](#).

6.25.3.17 `public bool WebradioManager.WMMModel.GenerateHistory ( int webradioid, string transcoderName, int transcoderId, string outputFilename )`

Generates a transcoder's history.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>webradioid</i>	Identifier for the webradio.
<i>transcoderName</i>	Name of the transcoder.
<i>transcoderId</i>	Identifier for the transcoder.
<i>outputFilename</i>	Filename of the output file.

## Returns

true if it succeeds, false if it fails.

Definition at line 1746 of file [WMMModel.cs](#).

6.25.3.18 `public bool WebradioManager.WMMModel.GeneratePlaylist ( string name, TimeSpan duration, AudioType type, string gender, int webradiold, string webradioName )`

Generates a playlist.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>name</i>	The name.
<i>duration</i>	The duration.
<i>type</i>	The type.
<i>gender</i>	The gender.
<i>webradiold</i>	Identifier for the webradio.
<i>webradioName</i>	Name of the webradio.

**Returns**

true if it succeeds, false if it fails.

Definition at line 1127 of file [WMMModel.cs](#).

6.25.3.19 `public AudioFile WebradioManager.WMMModel.GetAudioFileByFilename ( string filename )`

Gets audio file by filename.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>filename</i>	Filename of the file.
-----------------	-----------------------

**Returns**

The audio file by filename.

Definition at line 1791 of file [WMMModel.cs](#).

6.25.3.20 `public List< string > WebradioManager.WMMModel.GetGenders ( )`

Gets the genders list.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

The genders list.

Definition at line 724 of file [WMMModel.cs](#).**6.25.3.21** `public List< AudioFile > WebradioManager.WMMModel.GetLibrary ( )`

Gets the library.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

The library.

Definition at line 708 of file [WMMModel.cs](#).**6.25.3.22** `public List< AudioFile > WebradioManager.WMMModel.GetPlaylistContent ( Playlist playlist )`

Gets playlist content.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>playlist</i>	The playlist.
-----------------	---------------

**Returns**The playlist content ([AudioFile](#) list).Definition at line 1095 of file [WMMModel.cs](#).**6.25.3.23** `public int WebradioManager.WMMModel.GetSimiliarViewCount ( int webradiold )`

Gets similiar view count.

**Author**

Simon Menetrey

**Date**

26.05.2014

## Parameters

<i>webradioId</i>	Identifier for the webradio.
-------------------	------------------------------

## Returns

The similar view count.

Definition at line 343 of file [WMModel.cs](#).

**6.25.3.24 public Webradio WebradioManager.WMModel.GetWebradio ( int *id* )**

Gets a webradio.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>id</i>	The identifier.
-----------	-----------------

## Returns

The webradio.

Definition at line 459 of file [WMModel.cs](#).

**6.25.3.25 public Webradio WebradioManager.WMModel.GetWebradioByName ( string *name* )**

Gets webradio by name.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>name</i>	The name.
-------------	-----------

## Returns

The webradio by name.

Definition at line 477 of file [WMModel.cs](#).

6.25.3.26 `public List< Webradio > WebradioManager.WMModel.GetWebradios ( )`

Gets the webradios list.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

The webradios list.

Definition at line 502 of file [WMMModel.cs](#).

6.25.3.27 `public bool WebradioManager.WMModel.ImportFilesToLibrary ( string[] filenames, AudioType type )`

Import files to library.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>filenames</i>	The filenames array.
<i>type</i>	The type.

**Returns**

true if it succeeds, false if it fails.

Definition at line 743 of file [WMMModel.cs](#).

6.25.3.28 `public void WebradioManager.WMModel.LoadLibrary ( )`

Loads the library.

**Author**

Simon Menetrey

**Date**

26.05.2014

Definition at line 406 of file [WMMModel.cs](#).



**6.25.3.29** `public void WebradioManager.WMMModel.LoadWebradios ( )`

Loads the webradios.

**Author**

Simon Menetrey

**Date**

26.05.2014

Definition at line 437 of file [WMMModel.cs](#).

**6.25.3.30** `public bool WebradioManager.WMMModel.ModifyWebradioName ( string newName, int webradiold )`

Modify webradio name.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>newName</i>	Name of the new webradio.
<i>webradiold</i>	Identifier for the webradio.

**Returns**

true if it succeeds, false if it fails.

Definition at line 1819 of file [WMMModel.cs](#).

**6.25.3.31** `public bool WebradioManager.WMMModel.RemoveFromPlaylist ( Dictionary< int, string > audioFiles, Playlist playlist )`

Removes from playlist.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>audioFiles</i>	The audio files.
<i>playlist</i>	The playlist.

**Returns**

true if it succeeds, false if it fails.

Definition at line [1061](#) of file [WMMModel.cs](#).

**6.25.3.32** `public void WebradioManager.WMMModel.RemoveObserver ( IController observer )`

Removes the observer described by observer.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>observer</i>	The observer.
-----------------	---------------

Definition at line [325](#) of file [WMMModel.cs](#).

**6.25.3.33** `public void WebradioManager.WMMModel.ShowServerWebAdmin ( int webradiold )`

Shows the server web admin.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>webradiold</i>	Identifier for the webradio.
-------------------	------------------------------

Definition at line [1681](#) of file [WMMModel.cs](#).

**6.25.3.34** `public void WebradioManager.WMMModel.ShowServerWebInterface ( int webradiold )`

Shows the server web interface.

**Author**

Simon Menetrey

**Date**

26.05.2014

## Parameters

<i>webradiold</i>	Identifier for the webradio.
-------------------	------------------------------

Definition at line 1665 of file [WMModel.cs](#).

6.25.3.35 `public bool WebradioManager.WMModel.StartServer ( int webradiold, bool debug )`

Starts a server.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>webradiold</i>	Identifier for the webradio.
<i>debug</i>	true to debug.

## Returns

true if it succeeds, false if it fails.

Definition at line 1617 of file [WMModel.cs](#).

6.25.3.36 `public bool WebradioManager.WMModel.StartTranscoder ( WebradioTranscoder transcoder, bool debug, int webradiold )`

Starts a transcoder.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>transcoder</i>	The transcoder.
<i>debug</i>	true to debug.
<i>webradiold</i>	Identifier for the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 1419 of file [WMModel.cs](#).

6.25.3.37 `public bool WebradioManager.WMMModel.StopAllProcess ( int webradiold )`

Stops all process of a webradio.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>webradiold</i>	Identifier for the webradio.
-------------------	------------------------------

**Returns**

true if it succeeds, false if it fails.

Definition at line [1487](#) of file [WMMModel.cs](#).

6.25.3.38 `public bool WebradioManager.WMMModel.StopAllProcess ( )`

Stops all process of the program.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Returns**

true if it succeeds, false if it fails.

Definition at line [1515](#) of file [WMMModel.cs](#).

6.25.3.39 `public bool WebradioManager.WMMModel.StopServer ( int webradiold )`

Stops a server.

**Author**

Simon Menetrey

**Date**

26.05.2014

## Parameters

<i>webradiold</i>	Identifier for the webradio.
-------------------	------------------------------

## Returns

true if it succeeds, false if it fails.

Definition at line 1642 of file [WMModel.cs](#).

6.25.3.40 `public bool WebradioManager.WMModel.StopTranscoder ( WebradioTranscoder transcoder, int webradiold )`

Stops a transcoder.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>transcoder</i>	The transcoder.
<i>webradiold</i>	Identifier for the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 1454 of file [WMModel.cs](#).

6.25.3.41 `public bool WebradioManager.WMModel.TranscoderCapture ( bool active, string device, WebradioTranscoder transcoder, int webradiold )`

Transcoder capture set.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>active</i>	true to active.
<i>device</i>	The device.
<i>transcoder</i>	The transcoder.
<i>webradiold</i>	Identifier for the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 1866 of file [WMModel.cs](#).

6.25.3.42 `public bool WebradioManager.WMModel.TranscoderNextTrack ( WebradioTranscoder transcoder )`

Transcoder goes next track.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>transcoder</i>	The transcoder.
-------------------	-----------------

**Returns**

true if it succeeds, false if it fails.

Definition at line 1699 of file [WMModel.cs](#).

6.25.3.43 `public bool WebradioManager.WMModel.UpdateAudioFile ( AudioFile file )`

Updates the audio file with param one's value. Retag file.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>file</i>	The file.
-------------	-----------

**Returns**

true if it succeeds, false if it fails.

Definition at line 843 of file [WMModel.cs](#).

6.25.3.44 `public bool WebradioManager.WMModel.UpdateEvent ( CalendarEvent aEvent, int webradiold )`

Updates the event with param one's values.

**Author**

Simon Menetrey

**Date**

26.05.2014

## Parameters

<i>aEvent</i>	The event.
<i>webradiold</i>	Identifier for the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 1221 of file [WMModel.cs](#).

```
6.25.3.45 public bool WebradioManager.WMModel.UpdateServer ( bool debug, int port, string password, string
        adminPassword, int maxListener, int webradiold )
```

Updates the server.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>debug</i>	true to debug.
<i>port</i>	The port.
<i>password</i>	The password.
<i>adminPassword</i>	The admin password.
<i>maxListener</i>	The maximum listener.
<i>webradiold</i>	Identifier for the webradio.

## Returns

true if it succeeds, false if it fails.

Definition at line 1569 of file [WMModel.cs](#).

```
6.25.3.46 public List< WebradioListener > WebradioManager.WMModel.UpdateServerListeners ( int webradiold )
```

Updates the webradio's server listeners.

## Author

Simon Menetrey

## Date

26.05.2014

## Parameters

<i>webradiold</i>	Identifier for the webradio.
-------------------	------------------------------

**Returns**

A List<[WebradioListener](#)>

Definition at line [1893](#) of file [WMMModel.cs](#).

6.25.3.47 `public bool WebradioManager.WMMModel.UpdateServerStats ( int webradiold )`

Updates the webradio's server statistics.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>webradiold</i>	Identifier for the webradio.
-------------------	------------------------------

**Returns**

true if it succeeds, false if it fails.

Definition at line [1911](#) of file [WMMModel.cs](#).

6.25.3.48 `public bool WebradioManager.WMMModel.UpdateTranscoder ( WebradioTranscoder transcoder, bool debug, int webradiold )`

Updates the transcoder.

**Author**

Simon Menetrey

**Date**

26.05.2014

**Parameters**

<i>transcoder</i>	The transcoder.
<i>debug</i>	true to debug.
<i>webradiold</i>	Identifier for the webradio.

**Returns**

true if it succeeds, false if it fails.

Definition at line [1380](#) of file [WMMModel.cs](#).



## 6.25.4 Property Documentation

6.25.4.1 `public List< WebradioServer > WebradioManager.WMModel.ActiveServers` `[get]`, `[set]`

Gets or sets the active servers list.

Returns

The active servers.

Definition at line 98 of file [WMModel.cs](#).

6.25.4.2 `public List< WebradioTranscoder > WebradioManager.WMModel.ActiveTranscoders` `[get]`, `[set]`

Gets or sets the active transcoders list.

Returns

The active transcoders.

Definition at line 112 of file [WMModel.cs](#).

6.25.4.3 `public Bdd WebradioManager.WMModel.Bdd` `[get]`, `[set]`

Gets or sets the bdd.

Returns

The bdd.

Definition at line 140 of file [WMModel.cs](#).

6.25.4.4 `public List< AudioFile > WebradioManager.WMModel.Library` `[get]`, `[set]`

Gets or sets the library.

Returns

The library.

Definition at line 182 of file [WMModel.cs](#).

6.25.4.5 `public List< IController > WebradioManager.WMModel.Observers` `[get]`, `[set]`

Gets or sets the observers.

Returns

The observers.

Definition at line 154 of file [WMModel.cs](#).

6.25.4.6 `public System.Windows.Forms.Timer WebradioManager.WMModel.ProcessWatcher` `[get]`, `[set]`

Gets or sets the process watcher.

Returns

The process watcher.

Definition at line 126 of file [WMModel.cs](#).

6.25.4.7 `public Dictionary< int, Webradio > WebradioManager.WMModel.Webradios` `[get], [set]`

Gets or sets the webradios.

#### Returns

The webradios.

Definition at line 168 of file [WMModel.cs](#).

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

- [WMModel.cs](#)

## Chapter 7

# File Documentation

### 7.1 Ad.cs File Reference

Implements the ad class.

#### Classes

- class [WebradioManager.Ad](#)  
*An ad audio file.*

#### Namespaces

- package [WebradioManager](#)

#### 7.1.1 Detailed Description

Implements the ad class.

Definition in file [Ad.cs](#).

### 7.2 Ad.cs

```
00001
00007 using System;
00008
00009 namespace WebradioManager
00010 {
00020     public class Ad : AudioFile
00021     {
00022         #region Methods
00023
00042         public Ad(int id, string filename, string title, string artist, string album, int year, string
label, TimeSpan duration, string gender):
00043             base(id, filename, title, artist, album, year, label, duration, gender,
AudioType.Ad)
00044         {
00045
00046         }
00047
00066         public Ad(string filename, string title, string artist, string album, int year, string label,
TimeSpan duration, string gender) :
00067             base(filename, title, artist, album, year, label, duration, gender,
AudioType.Ad)
00068         {
00069
00070         }
00071         #endregion
}
```

```
00072     }
00073 }
```

## 7.3 AdminController.cs File Reference

Implements the admin controller class.

### Classes

- class [WebradioManager.AdminController](#)  
*A controller for handling admin view.*

### Namespaces

- package [WebradioManager](#)

#### 7.3.1 Detailed Description

Implements the admin controller class.

Definition in file [AdminController.cs](#).

## 7.4 AdminController.cs

```
00001
00007 using System;
00008 using System.Collections.Generic;
00009 using System.Net;
00010
00011 namespace WebradioManager
00012 {
00022     public class AdminController : IController
00023     {
00024         #region Fields
00025         // \brief The model.
00026         private WMMModel _model;
00027         // \brief The view.
00028         private AdminView _view;
00029         #endregion
00030
00031         #region Properties
00032
00041         public AdminView View
00042         {
00043             get { return _view; }
00044             set { _view = value; }
00045         }
00046
00055         public WMMModel Model
00056         {
00057             get { return _model; }
00058             set { _model = value; }
00059         }
00060         #endregion
00061
00062         #region Methods
00063
00076         public AdminController(int id, WMMModel model)
00077         {
00078             this.View = new AdminView(id, this);
00079             this.Model = model;
00080             this.UpdateView();
00081             this.View.Show();
00082         }
00083
00093         public void UpdateView()
00094         {
00095             this.View.UpdateView();
```

```

00096     }
00097
00111     public Webradio GetWebradio(int id)
00112     {
00113         return this.Model.GetWebradio(id);
00114     }
00115
00127     public List<AudioFile> GetLibrary()
00128     {
00129         return this.Model.GetLibrary();
00130     }
00131
00143     public List<string> GetGenders()
00144     {
00145         return this.Model.GetGenders();
00146     }
00147
00159     public void CheckFolders(int webradioId)
00160     {
00161         this.Model.CheckFolders(webradioId);
00162     }
00163
00173     public void FormClose()
00174     {
00175         this.Model.RemoveObserver(this);
00176     }
00177
00192     public bool ImportFilesToLibrary(string[] filenames,
AudioType type)
00193     {
00194         return this.Model.ImportFilesToLibrary(filenames, type);
00195     }
00196
00211     public bool DeleteAudioFile(int id,string filename)
00212     {
00213         return this.Model.DeleteAudioFile(id,filename);
00214     }
00215
00232     public bool CreatePlaylist(string name, string webradioName, int webradioId,
AudioType type)
00233     {
00234         Playlist newPlaylist;
00235         return this.Model.CreatePlaylist(name,webradioName,webradioId,type, out newPlaylist);
00236     }
00237
00252     public bool DeletePlaylist(Playlist playlist, int webradioId)
00253     {
00254         return this.Model.DeletePlaylist(playlist, webradioId);
00255     }
00256
00271     public bool AddToPlaylist(Playlist playlist, Dictionary<int, string>
audioFiles)
00272     {
00273         if (playlist != null)
00274             return this.Model.AddToPlaylist(playlist, audioFiles);
00275         else
00276             return false;
00277     }
00278
00293     public bool RemoveFromPlaylist(Playlist playlist, Dictionary<int,string>
audioFiles)
00294     {
00295         return this.Model.RemoveFromPlaylist(audioFiles, playlist);
00296     }
00297
00311     public List<AudioFile> GetPlaylistContent(Playlist playlist)
00312     {
00313         return this.Model.GetPlaylistContent(playlist);
00314     }
00315
00334     public bool GeneratePlaylist(string name, TimeSpan duration,
AudioType type, string gender, int webradioId, string webradioName)
00335     {
00336         return this.Model.GeneratePlaylist(name, duration, type, gender, webradioId, webradioName);
00337     }
00338
00353     public bool CreateEvent(CalendarEvent newEvent, int webradioId)
00354     {
00355         return this.Model.CreateEvent(newEvent, webradioId);
00356     }
00357
00372     public bool UpdateEvent(CalendarEvent aEvent, int webradioId)
00373     {
00374         return this.Model.UpdateEvent(aEvent,webradioId);
00375     }
00376
00391     public bool DeleteEvent(CalendarEvent aEvent, int webradioId)

```

```

00392         {
00393             return this.Model.DeleteEvent(aEvent, webradioId);
00394         }
00395
00418     public bool CreateTranscoder(string name, StreamType st, int sampleRate,
int bitrate, string url, IPAddress ip, int port, int adminport, string password, int webradioId)
00419     {
00420         return this.Model.CreateTranscoder(name, st, sampleRate, bitrate, url, ip, port, adminport,
password, webradioId);
00421     }
00422
00437     public bool DeleteTranscoder(WebradioTranscoder transcoder, int
webradioId)
00438     {
00439         return this.Model.DeleteTranscoder(transcoder, webradioId);
00440     }
00441
00457     public bool UpdateTranscoder(WebradioTranscoder transcoder, bool
debug, int webradioId)
00458     {
00459         return this.Model.UpdateTranscoder(transcoder, debug, webradioId);
00460     }
00461
00477     public bool StartTranscoder(WebradioTranscoder transcoder, bool
debug, int webradioId)
00478     {
00479         return this.Model.StartTranscoder(transcoder, debug, webradioId);
00480     }
00481
00496     public bool StopTranscoder(WebradioTranscoder transcoder, int
webradioId)
00497     {
00498         return this.Model.StopTranscoder(transcoder, webradioId);
00499     }
00500
00514     public bool StopAllTranscoders(int webradioId)
00515     {
00516         return this.Model.StopAllProcess(webradioId);
00517     }
00518
00530     public void GenerateAllConfigs(int webradioId)
00531     {
00532         this.Model.GenerateConfigFiles(webradioId);
00533     }
00534
00553     public bool UpdateServer(bool debug, int port, string password, string adminPassword,
int maxListener, int webradioId)
00554     {
00555         return this.Model.UpdateServer(debug, port, password, adminPassword, maxListener, webradioId);
00556     }
00557
00572     public bool StartServer(int webradioId, bool debug)
00573     {
00574         return this.Model.StartServer(webradioId, debug);
00575     }
00576
00590     public bool StopServer(int webradioId)
00591     {
00592         return this.Model.StopServer(webradioId);
00593     }
00594
00606     public void ShowServerWebInterface(int webradioId)
00607     {
00608         this.Model.ShowServerWebInterface(webradioId);
00609     }
00610
00622     public void ShowServerWebAdmin(int webradioId)
00623     {
00624         this.Model.ShowServerWebAdmin(webradioId);
00625     }
00626
00640     public bool TranscoderNextTrack(WebradioTranscoder transcoder)
00641     {
00642         return this.Model.TranscoderNextTrack(transcoder);
00643     }
00644
00658     public bool ClearHistory(int transcoderId)
00659     {
00660         return this.Model.ClearHistory(transcoderId);
00661     }
00662
00679     public bool GenerateHistory(int webradioId, string transcoderName, int transcoderId,
string outputFilename)
00680     {
00681         return this.Model.GenerateHistory(webradioId, transcoderName, transcoderId, outputFilename);
00682     }
00683

```

```

00698         public bool ModifyWebradioName(string name, int webradioId)
00699         {
00700             return this.Model.ModifyWebradioName(name, webradioId);
00701         }
00702
00716         public AudioFile GetAudioFileByFilename(string filename)
00717         {
00718             return this.Model.GetAudioFileByFilename(filename);
00719         }
00720
00734         public bool UpdateAudioFile(AudioFile file)
00735         {
00736             return this.Model.UpdateAudioFile(file);
00737         }
00738
00755         public bool TranscoderCapture(bool active, string device,
WebradioTranscoder transcoder, int webradioId)
00756         {
00757             return this.Model.TranscoderCapture(active, device, transcoder, webradioId);
00758         }
00759
00773         public List<WebradioListener> GetServerListeners(int webradioId)
00774         {
00775             return this.Model.UpdateServerListeners(webradioId);
00776         }
00777
00791         public bool UpdateServerStats(int webradioId)
00792         {
00793             return this.Model.UpdateServerStats(webradioId);
00794         }
00795
00807         public bool CheckLibrary()
00808         {
00809             return this.Model.CheckLibrary();
00810         }
00811
00825         public int GetSimilarViewCount(int webradioId)
00826         {
00827             return this.Model.GetSimiliarViewCount(webradioId);
00828         }
00829
00830         #endregion
00831
00832     }
00833 }
00834 }

```

## 7.5 AdminView.cs File Reference

Implements the admin view class.

### Classes

- class [WebradioManager.AdminView](#)

*An admin view.*

### Namespaces

- package [WebradioManager](#)

#### 7.5.1 Detailed Description

Implements the admin view class.

Definition in file [AdminView.cs](#).

## 7.6 AdminView.cs

```

00001
00007 using Calendar;
00008 using System;
00009 using System.Collections.Generic;
00010 using System.Diagnostics;
00011 using System.Drawing;
00012 using System.IO;
00013 using System.Management;
00014 using System.Net;
00015 using System.Net.Sockets;
00016 using System.Windows.Forms;
00017
00018 namespace WebradioManager
00019 {
00029     public partial class AdminView : Form
00030     {
00031         #region Const
00032         // \brief The default search string.
00033         const string DEFAULT_SEARCH_STRING = "Search...";
00034         // \brief The maximum name length.
00035         const int MAX_NAME_LENGTH = 255;
00036         #endregion
00037
00038         #region Fields
00039         // \brief The controller.
00040         private AdminController _controller;
00041         // \brief The identifier of the current webradio.
00042         private int _idWebradio;
00043         // \brief The webradio's name.
00044         private string _nameWebradio;
00045         // \brief The events for calendar.
00046         List<EventAppointment> _events;
00047         #endregion
00048
00049         #region Properties
00050
00059         public string NameWebradio
00060         {
00061             get { return _nameWebradio; }
00062             set { _nameWebradio = value; }
00063         }
00064
00073         public List<EventAppointment> EventsCalendar
00074         {
00075             get { return _events; }
00076             set { _events = value; }
00077         }
00078
00087         public int IdWebradio
00088         {
00089             get { return _idWebradio; }
00090             set { _idWebradio = value; }
00091         }
00092
00101         public AdminController Controller
00102         {
00103             get { return _controller; }
00104             set { _controller = value; }
00105         }
00106         #endregion
00107
00108         #region Methods
00109
00121         public AdminView(int idWebradio, AdminController controller)
00122         {
00123             InitializeComponent();
00124             this.Controller = controller;
00125             this.IdWebradio = idWebradio;
00126             this.EventsCalendar = new List<EventAppointment>();
00127             this.UpdateAudioDevices();
00128         }
00129
00139         public void UpdateView()
00140         {
00141             int index;
00142             Webradio webradio = this.Controller.GetWebradio(this.IdWebradio);
00143             this.NameWebradio = webradio.Name;
00144             this.Text = "WebradioManager - " + this.NameWebradio;
00145             txtWebradioName.Text = this.NameWebradio;
00146             lblWebradioTitle.Text = this.NameWebradio;
00147             cmbTypePlaylist.SelectedIndex = 0;
00148             cmbTypePlaylistGenerate.SelectedIndex = 0;
00149
00150             //LIBRARY

```



```

00151         dgvMusics.Rows.Clear();
00152         dgvAds.Rows.Clear();
00153         List<AudioFile> audiofiles = this.Controller.GetLibrary();
00154         foreach (AudioFile file in audiofiles)
00155         {
00156             if (file is Music)
00157                 dgvMusics.Rows.Add(file.GetInfosArray());
00158             else if (file is Ad)
00159                 dgvAds.Rows.Add(file.GetInfosArray());
00160         }
00161         txbSearchAd.Text = (txbSearchAd.Text != DEFAULT_SEARCH_STRING) ? txbSearchAd.Text :
DEFAULT_SEARCH_STRING;
00162         txbSearchMusic.Text = (txbSearchMusic.Text != DEFAULT_SEARCH_STRING) ? txbSearchMusic.Text :
DEFAULT_SEARCH_STRING;
00163         this.txbSearchTextChanged(txbSearchAd, new EventArgs());
00164         this.txbSearchTextChanged(txbSearchMusic, new EventArgs());
00165         //----
00166         //PLAYLIST
00167         lblPlaylistDuration.Text = "";
00168         cmbPlaylistsMusic.Items.Clear();
00169         cmbPlaylistsAd.Items.Clear();
00170         cmbPlaylistEvent.Items.Clear();
00171         lsbPlaylistsAd.Items.Clear();
00172         lsbPlaylistsMusic.Items.Clear();
00173         dgvPlaylistContent.Rows.Clear();
00174
00175         cmbPlaylistEvent.Items.AddRange(webradio.Playlists.ToArray());
00176         foreach (Playlist playlist in webradio.Playlists)
00177         {
00178             if (playlist is PlaylistMusic)
00179             {
00180                 cmbPlaylistsMusic.Items.Add(playlist);
00181                 lsbPlaylistsMusic.Items.Add(playlist);
00182             }
00183             else if (playlist is PlaylistAd)
00184             {
00185                 cmbPlaylistsAd.Items.Add(playlist);
00186                 lsbPlaylistsAd.Items.Add(playlist);
00187             }
00188         }
00189         if (cmbPlaylistsAd.Items.Count > 0)
00190             cmbPlaylistsAd.SelectedIndex = 0;
00191         if (cmbPlaylistsMusic.Items.Count > 0)
00192             cmbPlaylistsMusic.SelectedIndex = 0;
00193         if (cmbPlaylistEvent.Items.Count > 0)
00194             cmbPlaylistEvent.SelectedIndex = 0;
00195         lsbPlaylistsAd.SelectedIndex = -1;
00196         lsbPlaylistsMusic.SelectedIndex = -1;
00197         //----
00198         //GENDER
00199         List<string> gender = this.Controller.GetGenders();
00200         cmbGenderGenerate.Items.Clear();
00201         cmbGenderGenerate.Items.AddRange(gender.ToArray());
00202         if (cmbGenderGenerate.Items.Count > 0)
00203             cmbGenderGenerate.SelectedIndex = 0;
00204         //----
00205         //EVENTS
00206         this.EventsCalendar.Clear();
00207         dvwTimetable.Refresh();
00208         dvwTimetable.Invalidate();
00209         foreach (CalendarEvent ev in webradio.Calendar.Events)
00210         {
00211             DayWeek dw = ev.GetSelectedDays();
00212             bool[] days = dw.ToArray();
00213             for (int i = 0; i < 7; i++)
00214             {
00215                 if (days[i])
00216                 {
00217                     EventAppointment m_Appointment = new
EventAppointment();
00218
00219                     m_Appointment.StartDate = new DateTime(dvwTimetable.StartDate.Year, dvwTimetable.
StartDate.Month, (i + 1), ev.StartTime.Hours, ev.StartTime.Minutes, ev.
StartTime.Seconds);
00220                     m_Appointment.EndDate = m_Appointment.StartDate.Add(ev.Duration);
00221                     m_Appointment.Title = ev.Name + "(" + ev.Priority.ToString() + ")\\r\\n " + ev.
Playlist.Name + "\\r\\n Shuffle : " + ((ev.Shuffle) ? "True" : "False");
00222                     if (ev.Playlist.Type == AudioType.Music)
00223                     {
00224                         m_Appointment.BorderColor = Color.Blue;
00225                         //m_Appointment.Color = Color.Blue;
00226                     }
00227                     else
00228                     {
00229                         m_Appointment.BorderColor = Color.Red;
00230                         //m_Appointment.Color = Color.Red;
00231                     }

```

```

00232         m_Appointment.Playlist = ev.Playlist;
00233         m_Appointment.EventObject = ev;
00234         this.EventsCalendar.Add(m_Appointment);
00235     }
00236 }
00237 }
00238 //----
00239 //TRANSCODERS
00240 index = lsbTranscoders.SelectedIndex;
00241 lsbTranscoders.Items.Clear();
00242 lsbTranscoders.Items.AddRange(webradio.Transcoders.ToArray());
00243 lsbTranscoders.SelectedIndex = (index >= lsbTranscoders.Items.Count)?-1:index;
00244 cmbBitrate.Items.Clear();
00245 index = cmbBitrateEdit.SelectedIndex;
00246 cmbBitrateEdit.Items.Clear();
00247 foreach (int bitrate in WebradioTranscoder.AvaliableBitrates)
00248 {
00249     cmbBitrate.Items.Add((bitrate / 1000));
00250     cmbBitrateEdit.Items.Add((bitrate / 1000));
00251 }
00252 cmbBitrate.SelectedIndex = 0;
00253 cmbBitrateEdit.SelectedIndex = index;
00254
00255 cmbSampleRate.Items.Clear();
00256 index = cmbSampleRateEdit.SelectedIndex;
00257 cmbSampleRateEdit.Items.Clear();
00258 foreach (int samplerate in WebradioTranscoder.AvaliableSampleRates)
00259 {
00260     cmbSampleRate.Items.Add(samplerate.ToString());
00261     cmbSampleRateEdit.Items.Add(samplerate.ToString());
00262 }
00263 cmbSampleRate.SelectedIndex = 0;
00264 cmbSampleRateEdit.SelectedIndex = index;
00265
00266 cmbEncoder.SelectedIndex = 0;
00267
00268 lsbStatus.Items.Clear();
00269 dgvCurrentTracks.Rows.Clear();
00270 foreach (WebradioTranscoder transcoder in webradio.Transcoders)
00271 {
00272     lsbStatus.Items.Add(transcoder.Name + " : " + ((transcoder.IsRunning()) ? "On" : "Off"));
00273     if (transcoder.IsRunning())
00274     {
00275         AudioFile file = this.Controller.GetAudioFileByFilename(
00276             transcoder.CurrentTrack);
00277         if (file != null)
00278         {
00279             string[] values = new string[] { transcoder.Name, file.Title, file.Artist,
00280             file.Album };
00281             dgvCurrentTracks.Rows.Add(values);
00282         }
00283     }
00284 }
00285 //----
00286 //SERVER
00287 nudPortServer.Value = webradio.Server.Port;
00288 txbLocalServerPassword.Text = webradio.Server.Password;
00289 txbLocalServerAdminPassword.Text = webradio.Server.AdminPassword;
00290 nudMaxListener.Value = webradio.Server.MaxListener;
00291 bool running = webradio.Server.IsRunning();
00292 lblStatusServer.Text = (running) ? "On" : "Off";
00293 lblStatusServer.ForeColor = (running) ? Color.Green : Color.Red;
00294 btnStartServer.Enabled = (running) ? false : true;
00295 btnStopServer.Enabled = (running) ? true : false;
00296
00297 if (webradio.Server.Stats != null)
00298     this.ShowServerStats(webradio.Server.Stats);
00299 //----
00300 }
00301
00302 private void ShowServerStats(WebradioServerStats stats)
00303 {
00304     lblNumberListeners.Text = stats.CurrentListeners.ToString();
00305     lblPeakListeners.Text = stats.PeakListeners.ToString();
00306     lblUniqueListeners.Text = stats.UniqueListeners.ToString();
00307     lblAverageTime.Text = stats.AverageTime.ToString();
00308 }
00309
00310 private void UpdateAudioDevices()
00311 {
00312     ManagementObjectSearcher objSearcher = new ManagementObjectSearcher("SELECT * FROM
00313     Win32_SoundDevice");
00314     ManagementObjectCollection objCollection = objSearcher.Get();
00315     cmbAudioDevice.Items.Clear();
00316     foreach (ManagementObject obj in objCollection)
00317     {

```

```

00336         foreach (PropertyData property in obj.Properties)
00337         {
00338             if (property.Name == "Caption")
00339                 cmbAudioDevice.Items.Add(property.Value);
00340         }
00341     }
00342
00343     if (cmbAudioDevice.Items.Count > 0)
00344         cmbAudioDevice.SelectedIndex = 0;
00345 }
00346
00359 void dvwTimetable_SelectionChanged(object sender, EventArgs e)
00360 {
00361     ckbMonday.Checked = (dvwTimetable.SelectionStart.DayOfWeek == DayOfWeek.Monday) ? true : false;
00362     ckbTuesday.Checked = (dvwTimetable.SelectionStart.DayOfWeek == DayOfWeek.Tuesday) ? true :
false;
00363     ckbWednesday.Checked = (dvwTimetable.SelectionStart.DayOfWeek == DayOfWeek.Wednesday) ? true :
false;
00364     ckbThursday.Checked = (dvwTimetable.SelectionStart.DayOfWeek == DayOfWeek.Thursday) ? true :
false;
00365     ckbFriday.Checked = (dvwTimetable.SelectionStart.DayOfWeek == DayOfWeek.Friday) ? true : false;
00366     ckbSaturday.Checked = (dvwTimetable.SelectionStart.DayOfWeek == DayOfWeek.Saturday) ? true :
false;
00367     ckbSunday.Checked = (dvwTimetable.SelectionStart.DayOfWeek == DayOfWeek.Sunday) ? true : false;
00368
00369     TimeSpan start = new TimeSpan();
00370     TimeSpan end = new TimeSpan();
00371     if (dvwTimetable.Selection == SelectionType.Appointment)
00372     {
00373         start = new TimeSpan(dvwTimetable.SelectedAppointment.StartDate.Hour, dvwTimetable.
SelectedAppointment.StartDate.Minute, dvwTimetable.SelectedAppointment.StartDate.Second);
00374         end = new TimeSpan(dvwTimetable.SelectedAppointment.EndDate.Hour, dvwTimetable.
SelectedAppointment.EndDate.Minute, dvwTimetable.SelectedAppointment.EndDate.Second);
00375     }
00376     else if (dvwTimetable.Selection == SelectionType.DateRange)
00377     {
00378         start = new TimeSpan(dvwTimetable.SelectionStart.Hour, dvwTimetable.SelectionStart.Minute,
dvwTimetable.SelectionStart.Second);
00379         end = new TimeSpan(dvwTimetable.SelectionEnd.Hour, dvwTimetable.SelectionEnd.Minute,
dvwTimetable.SelectionEnd.Second);
00380     }
00381
00382     mtbStartTime.Text = start.ToString();
00383     mtbDuration.Text = (end - start).ToString();
00384 }
00385
00386 private void dvwTimetable_ResolveAppointments(object sender, ResolveAppointmentsEventArgs args)
00387 {
00388     List<Appointment> m_Apps = new List<Appointment>();
00389     foreach (Appointment m_App in this.EventsCalendar)
00390         m_Apps.Add(m_App);
00391
00392     args.Appointments = m_Apps;
00393 }
00394
00395 private void AdminView_FormClosing(object sender, FormClosingEventArgs e)
00396 {
00397     if (this.Controller.GetSimilarViewCount(this.IdWebradio) == 1)
00398     {
00399         if (MessageBox.Show("All transcoders and the server will be shutting down. Are you sure ?",
"Close", MessageBoxButtons.YesNo, MessageBoxIcon.Question) == System.Windows.Forms.DialogResult.Yes)
00400         {
00401             if (this.Controller.StopAllTranscoders(this.IdWebradio))
00402                 this.Controller.FormClose();
00403             else
00404             {
00405                 MessageBox.Show("An error has occurred", "Error");
00406                 e.Cancel = true;
00407             }
00408         }
00409         else
00410             e.Cancel = true;
00411     }
00412     else
00413     {
00414         this.Controller.FormClose();
00415     }
00416 }
00417
00418 private void ImportFolder_Click(object sender, EventArgs e)
00419 {
00420     AudioType type;
00421     string[] filenames;
00422     if ((sender as Button).Tag.ToString() == AudioType.Music.ToString())
00423         type = AudioType.Music;

```

```

00462         else
00463             type = AudioType.Ad;
00464         if (FBD.ShowDialog() == System.Windows.Forms.DialogResult.OK)
00465         {
00466             //Recusively
00467             if (MessageBox.Show("Do you want to search recursively ?", "Recursively", MessageBoxButtons
.YesNo, MessageBoxIcon.Question) == System.Windows.Forms.DialogResult.Yes)
00468                 filenames = Directory.GetFiles(FBD.SelectedPath, "*.mp3", SearchOption.AllDirectories);
00469             else
00470                 filenames = Directory.GetFiles(FBD.SelectedPath, "*.mp3", SearchOption.TopDirectoryOnly
);
00471
00472             if (this.Controller.ImportFilesToLibrary(filenames, type))
00473                 MessageBox.Show("Importation completed", "Success");
00474             else
00475                 MessageBox.Show("An error occured", "Error");
00476         }
00477     }
00478
00491     private void ImportFiles_Click(object sender, EventArgs e)
00492     {
00493         AudioType type;
00494         if ((sender as Button).Tag.ToString() == AudioType.Music.ToString())
00495             type = AudioType.Music;
00496         else
00497             type = AudioType.Ad;
00498         if (OFD.ShowDialog() == System.Windows.Forms.DialogResult.OK)
00499         {
00500             if (this.Controller.ImportFilesToLibrary(OFD.FileNames, type)
)
00501                 MessageBox.Show("Importation completed", "Success");
00502             else
00503                 MessageBox.Show("An error occured", "Error");
00504         }
00505     }
00506
00519     private void txbSearchEnter(object sender, EventArgs e)
00520     {
00521         TextBox txb = (sender as TextBox);
00522         if (txb.Text == DEFAULT_SEARCH_STRING)
00523             txb.Text = "";
00524     }
00525
00538     private void txbSearchLeave(object sender, EventArgs e)
00539     {
00540         TextBox txb = (sender as TextBox);
00541         if (!string.IsNullOrEmpty(txb.Text))
00542             txb.Text = "Search...";
00543     }
00544
00558     private void btnDeleteLibrary_Click(object sender, EventArgs e)
00559     {
00560         AudioType type;
00561         bool state = true;
00562         Button btn = (sender as Button);
00563         if (btn.Tag.ToString() == AudioType.Music.ToString())
00564             type = AudioType.Music;
00565         else
00566             type = AudioType.Ad;
00567
00568         DataGridViewSelectedRowCollection rows = (btn.Tag.ToString() ==
AudioType.Music.ToString()) ? dgvMusics.SelectedRows : dgvAds.SelectedRows;
00569         foreach (DataGridViewRow row in rows)
00570         {
00571             //Simple check if selected row is not the last empty row
00572             if (row.Cells[0].Value != null)
00573                 if (!this.Controller.DeleteAudioFile(int.Parse(row.Cells["
colId" + type.ToString()].Value.ToString()), row.Cells["colPath" + type.ToString()].Value.ToString()))
00574                     state = false;
00575         }
00576
00577         if (state)
00578             this.UpdateView();
00579         else
00580             MessageBox.Show("An error occured");
00581     }
00582
00595     private void txbSearchTextChanged(object sender, EventArgs e)
00596     {
00597         AudioType type;
00598         bool valid = false;
00599         string searchString = "";
00600         TextBox txb = sender as TextBox;
00601         if (txb.Tag.ToString() == AudioType.Music.ToString())
00602             type = AudioType.Music;
00603         else
00604             type = AudioType.Ad;

```

```

00605
00606
00607         if (!string.IsNullOrEmpty(txb.Text) && txb.Text != DEFAULT_SEARCH_STRING)
00608         {
00609             searchString = txb.Text.ToLower();
00610             foreach (DataGridViewRow row in ((type == AudioType.Music) ? dgvMusics.Rows :
dgvAds.Rows))
00611             {
00612                 foreach (DataGridViewCell cell in row.Cells)
00613                 {
00614                     if (cell.Value.ToString().ToLower().Contains(searchString))
00615                     {
00616                         valid = true;
00617                         break;
00618                     }
00619                 }
00620                 row.Visible = (valid) ? true : false;
00621                 valid = false;
00622             }
00623         }
00624     }
00625
00639     private void btnCreatePlaylist_Click(object sender, EventArgs e)
00640     {
00641         if (!string.IsNullOrEmpty(txbPlaylistName.Text.Trim()) && txbPlaylistName.Text.Length <=
MAX_NAME_LENGTH)
00642         {
00643             if (!this.Controller.CreatePlaylist(txbPlaylistName.Text, this.
NameWebradio, this.IdWebradio, (cmbTypePlaylist.SelectedItem.ToString() == "Music") ?
AudioType.Music : AudioType.Ad)
00644             {
00645                 MessageBox.Show("Playlist already exist or the name is invalid", "Error");
00646             }
00647             else
00648             {
00649                 MessageBox.Show("Please enter a valid playlist's name. (1-" + MAX_NAME_LENGTH + "
characters)", "Empty name");
00650             }
00651         }
00652
00663     private void btnDeletePlaylistClick(object sender, EventArgs e)
00664     {
00665         AudioType type;
00666         type = ((sender as Button).Tag.ToString() == AudioType.Music.ToString()) ? AudioType.Music :
AudioType.Ad;
00667
00668         if (((type == AudioType.Music) ? lsbPlaylistsMusic.SelectedIndex :
lsbPlaylistsAd.SelectedIndex) >= 0)
00669         {
00670             this.Controller.DeletePlaylist((Playlist)((type == AudioType.Music) ?
lsbPlaylistsMusic.SelectedItem : lsbPlaylistsAd.SelectedItem), this.IdWebradio);
00671             else
00672             {
00673                 MessageBox.Show("Please select a playlist to delete.", "No playlist selected");
00674             }
00675         }
00676
00687     private void btnAddToClick(object sender, EventArgs e)
00688     {
00689         AudioType type = ((sender as Button).Tag.ToString() == AudioType.Music.ToString()) ?
AudioType.Music : AudioType.Ad;
00690         Dictionary<int, string> audioFiles = new Dictionary<int, string>();
00691         DataGridViewSelectedRowCollection rows = ((type == AudioType.Music) ? dgvMusics.SelectedRows :
dgvAds.SelectedRows);
00692         this.Cursor = Cursors.WaitCursor;
00693         foreach (DataGridViewRow row in rows)
00694         {
00695             //Simple check if selected row is not the last empty row
00696             if (row.Cells[0].Value != null)
00697             {
00698                 audioFiles.Add(int.Parse(row.Cells["colId" + type.ToString()].Value.ToString()), row.
Cells["colPath" + type.ToString()].Value.ToString());
00699             }
00700         }
00701         this.Cursor = Cursors.Default;
00702         if (this.Controller.AddToPlaylist((Playlist)((type ==
AudioType.Music) ? cmbPlaylistsMusic.SelectedItem : cmbPlaylistsAd.SelectedItem),
audioFiles)
00703         {
00704             this.UpdateView();
00705         }
00706
00719     private void lsbPlaylistsSelectedIndexChanged(object sender, EventArgs e)
00720     {
00721         ListBox lsb = sender as ListBox;
00722         AudioType type = (lsb.Tag.ToString() == AudioType.Music.ToString()) ?
AudioType.Music : AudioType.Ad;
00723         btnRemoveFromPlaylist.Tag = type;
00724         if (lsb.SelectedIndex >= 0)
00725         {
00726             this.GetPlaylistContent((Playlist)lsb.SelectedItem);
00727         }
00728     }
00729

```

```

00741     private void GetPlaylistContent(Playlist playlist)
00742     {
00743         dgvPlaylistContent.Rows.Clear();
00744         TimeSpan totalDuration = new TimeSpan(0, 0, 0);
00745         List<AudioFile> audioFiles = this.Controller.GetPlaylistContent(playlist);
00746         foreach (AudioFile af in audioFiles)
00747         {
00748             totalDuration += af.Duration;
00749             dgvPlaylistContent.Rows.Add(af.GetInfosArray());
00750         }
00751         lblPlaylistDuration.Text = "Duration : " + totalDuration.ToString();
00752     }
00753
00767     private void btnRemoveFromPlaylist_Click(object sender, EventArgs e)
00768     {
00769         if (btnRemoveFromPlaylist.Tag == null)
00770         {
00771             MessageBox.Show("No playlist selected", "No playlist");
00772             return;
00773         }
00774         AudioType type = (AudioType)btnRemoveFromPlaylist.Tag;
00775         Dictionary<int, string> audioFiles = new Dictionary<int, string>();
00776         this.Cursor = Cursors.WaitCursor;
00777         foreach (DataGridViewRow row in dgvPlaylistContent.SelectedRows)
00778         {
00779             //Simple check if selected row is not the last empty row
00780             if (row.Cells[0].Value != null)
00781                 audioFiles.Add(int.Parse(row.Cells["colIdPlaylist"].Value.ToString()), row.Cells["
colPathPlaylist"].Value.ToString());
00782         }
00783         this.Cursor = Cursors.Default;
00784         Playlist selectedPlaylist = (Playlist)((type == AudioType.Music) ?
lsbPlaylistsMusic.SelectedItem : lsbPlaylistsAd.SelectedItem);
00786         if (!this.Controller.RemoveFromPlaylist(selectedPlaylist,
audioFiles))
00787             MessageBox.Show("An error occured", "Error");
00788         else
00789         {
00790             this.GetPlaylistContent(selectedPlaylist);
00791         }
00792     }
00793
00794
00807     private void txbSearchPlaylistContent_TextChanged(object sender, EventArgs e)
00808     {
00809         string searchString = "";
00810         bool valid = false;
00811         if (!string.IsNullOrEmpty(txbSearchPlaylistContent.Text) && txbSearchPlaylistContent.Text !=
DEFAULT_SEARCH_STRING)
00812         {
00813             searchString = txbSearchPlaylistContent.Text.ToLower();
00814             foreach (DataGridViewRow row in dgvPlaylistContent.Rows)
00815             {
00816                 foreach (DataGridViewCell cell in row.Cells)
00817                 {
00818                     if (cell.Value.ToString().ToLower().Contains(searchString))
00819                     {
00820                         valid = true;
00821                         break;
00822                     }
00823                 }
00824                 row.Visible = (valid) ? true : false;
00825                 valid = false;
00826             }
00827         }
00828     }
00829
00843     private void cmbTypePlaylistGenerate_SelectedIndexChanged(object sender, EventArgs e)
00844     {
00845         if (cmbTypePlaylistGenerate.SelectedItem.ToString() == AudioType.Ad.ToString())
00846             cmbGenderGenerate.Enabled = false;
00847         else
00848             cmbGenderGenerate.Enabled = true;
00849     }
00850
00863     private void btnGeneratePlaylist_Click(object sender, EventArgs e)
00864     {
00865         if (!string.IsNullOrEmpty(txbPlaylistNameGenerate.Text.Trim()) && txbPlaylistNameGenerate.Text.
Length <= MAX_NAME_LENGTH)
00866         {
00867             TimeSpan duration = new TimeSpan(0, (int)nudDurationGenerate.Value, 0);
00868             if (!this.Controller.GeneratePlaylist(txbPlaylistNameGenerate.
Text, duration,
00869                 (cmbTypePlaylistGenerate.SelectedItem.ToString() == AudioType.Music.ToString()) ?
AudioType.Music : AudioType.Ad,
00870                 cmbGenderGenerate.SelectedItem.ToString(), this.IdWebradio, this.

```

```

        NameWebradio))
00871     {
00872         MessageBox.Show("Impossible to generate a playlist with these parameters. Some issues
possible :\n - A playlist with this name and this type already exists\n - The given duration is too short for
this gender", "Error");
00873     }
00874 }
00875 else
00876     MessageBox.Show("Please enter a valid playlist's name. (1-" + MAX_NAME_LENGTH + "
characters)", "Error");
00877 }
00878
00891 private void ckbCheckedChanged(object sender, EventArgs e)
00892 {
00893     if ((sender as CheckBox).Name == "ckbAll")
00894     {
00895         ckbMonday.Checked = ckbAll.Checked;
00896         ckbTuesday.Checked = ckbAll.Checked;
00897         ckbWednesday.Checked = ckbAll.Checked;
00898         ckbThursday.Checked = ckbAll.Checked;
00899         ckbFriday.Checked = ckbAll.Checked;
00900         ckbSaturday.Checked = ckbAll.Checked;
00901         ckbSunday.Checked = ckbAll.Checked;
00902     }
00903 }
00904 }
00905
00918 private void btnCreateEvent_Click(object sender, EventArgs e)
00919 {
00920     if (!string.IsNullOrEmpty(txbEventName.Text.Trim()) && txbEventName.Text.Length <=
MAX_NAME_LENGTH)
00921     {
00922         TimeSpan start = new TimeSpan();
00923         if (!TimeSpan.TryParse(mtbStartTime.Text, out start))
00924         {
00925             MessageBox.Show("Start time format is not correct.", "Error");
00926             return;
00927         }
00928         TimeSpan duration = new TimeSpan();
00929         if (!TimeSpan.TryParse(mtbDuration.Text, out duration))
00930         {
00931             MessageBox.Show("Duration time format is not correct.", "Error");
00932             return;
00933         }
00934         TimeSpan minimumDuration = new TimeSpan(0, 1, 0);
00935         if (duration >= minimumDuration)
00936         {
00937             int repeat = this.GetRepeatValue();
00938             if (repeat > 0)
00939             {
00940                 CalendarEvent newEvent = new CalendarEvent(txbEventName.Text, start, duration,
repeat, (int)nudPriority.Value, ckbShuffle.Checked, true, (Playlist)cmbPlaylistEvent.SelectedItem);
00941                 if (!this.Controller.CreateEvent(newEvent, this.IdWebradio))
00942                     MessageBox.Show("Event already exists (with this name)", "Error");
00943             }
00944             else
00945                 MessageBox.Show("Please select a day", "Error");
00946         }
00947     }
00948     else
00949         MessageBox.Show("Duration must be longer or equal to " + minimumDuration.ToString());
00950 }
00951 else
00952     MessageBox.Show("Please enter a valid event's name. (1-" + MAX_NAME_LENGTH + " characters)"
, "Error");
00953 }
00954
00967 private void dvwTimetable_MouseUp(object sender, MouseEventArgs e)
00968 {
00969     if (dvwTimetable.Selection == SelectionType.Appointment)
00970     {
00971         EventAppointment app = (EventAppointment)dvwTimetable.SelectedAppointment;
00972         if (this.CheckMovePossible(app))
00973         {
00974             CalendarEvent aEvent = app.EventObject;
00975             TimeSpan start = new TimeSpan(app.StartDate.Hour, app.StartDate.Minute, app.StartDate.
Second);
00976             TimeSpan end = new TimeSpan(app.EndDate.Hour, app.EndDate.Minute, app.EndDate.Second);
00977             aEvent.StartTime = start;
00978             aEvent.Duration = end - start;
00979             aEvent.Repeat = this.GetRepeatValueFromAppointement(this.GetAllRelatedAppointment(app))
;
00981             if (!this.Controller.UpdateEvent(aEvent, this.IdWebradio))
00982                 MessageBox.Show("An error occured", "Error");
00983         }
00984     }
    else

```

```

00985         {
00986             MessageBox.Show("The same event can't be in the same day more than once.", "Error");
00987             this.UpdateView();
00988         }
00989     }
00990 }
00991
01003 private int GetRepeatValue()
01004 {
01005     int repeat = 0;
01006     repeat += (ckbMonday.Checked) ? (int)DayValue.Monday : 0;
01007     repeat += (ckbTuesday.Checked) ? (int)DayValue.Tuesday : 0;
01008     repeat += (ckbWednesday.Checked) ? (int)DayValue.Wednesday : 0;
01009     repeat += (ckbThursday.Checked) ? (int)DayValue.Thursday : 0;
01010     repeat += (ckbFriday.Checked) ? (int)DayValue.Friday : 0;
01011     repeat += (ckbSaturday.Checked) ? (int)DayValue.Saturday : 0;
01012     repeat += (ckbSunday.Checked) ? (int)DayValue.Sunday : 0;
01013     return repeat;
01014 }
01015
01029 private List<EventAppointment> GetAllRelatedAppointment(EventAppointment app)
01030 {
01031     List<EventAppointment> eventList = new List<EventAppointment>();
01032     foreach (EventAppointment tmp in this.EventsCalendar)
01033     {
01034         if (tmp.EventObject.Id == app.EventObject.Id)
01035             eventList.Add(tmp);
01036     }
01037     return eventList;
01038 }
01039
01054 private int GetRepeatValueFromAppointment(List<EventAppointment> eventList)
01055 {
01056     int repeat = 0;
01057     foreach (EventAppointment ev in eventList)
01058     {
01059         repeat += (ev.StartDate.DayOfWeek == DayOfWeek.Monday) ? (int)DayValue.Monday : 0;
01060         repeat += (ev.StartDate.DayOfWeek == DayOfWeek.Tuesday) ? (int)DayValue.Tuesday : 0;
01061         repeat += (ev.StartDate.DayOfWeek == DayOfWeek.Wednesday) ? (int)DayValue.Wednesday : 0;
01062         repeat += (ev.StartDate.DayOfWeek == DayOfWeek.Thursday) ? (int)DayValue.Thursday : 0;
01063         repeat += (ev.StartDate.DayOfWeek == DayOfWeek.Friday) ? (int)DayValue.Friday : 0;
01064         repeat += (ev.StartDate.DayOfWeek == DayOfWeek.Saturday) ? (int)DayValue.Saturday : 0;
01065         repeat += (ev.StartDate.DayOfWeek == DayOfWeek.Sunday) ? (int)DayValue.Sunday : 0;
01066     }
01067     return repeat;
01068 }
01069
01083 private bool CheckMovePossible(EventAppointment app)
01084 {
01085     bool result = true;
01086     foreach (EventAppointment ev in this.EventsCalendar)
01087     {
01088         if (ev.EventObject.Id == app.EventObject.Id && ev != app)
01089         {
01090             if (ev.StartDate.DayOfWeek == app.StartDate.DayOfWeek)
01091             {
01092                 result = false;
01093                 break;
01094             }
01095         }
01096     }
01097     return result;
01098 }
01099
01112 private void dvwTimetable_MouseClick(object sender, MouseEventArgs e)
01113 {
01114     if (e.Button == System.Windows.Forms.MouseButtons.Right)
01115     {
01116         if (dvwTimetable.Selection == SelectionType.Appointment)
01117         {
01118             if (MessageBox.Show("Do you really want to delete this event ?", "Delete event",
01119                 MessageBoxButtons.YesNo, MessageBoxIcon.Question) == System.Windows.Forms.DialogResult.Yes)
01120             {
01121                 if (!this.Controller.DeleteEvent((dvwTimetable.
01122                     SelectedAppointment as EventAppointment).EventObject, this.IdWebradio))
01123                     MessageBox.Show("An error occurred", "Error");
01124             }
01125         }
01126     }
01127 }
01128
01139 private void btnCreateTranscoder_Click(object sender, EventArgs e)
01140 {
01141     if (!string.IsNullOrEmpty(txbStreamName.Text.Trim()) && !string.IsNullOrEmpty(txbServerPassword
01142         .Text.Trim()) && txbStreamName.Text.Length <= MAX_NAME_LENGTH)

```



```

01143         IPAddress ip;
01144         if (IPAddress.TryParse(txbServerIP.Text, out ip))
01145         {
01146             if (cmbEncoder.SelectedItem.ToString() == StreamType.MP3.ToString())
01147                 MessageBox.Show("You have selected MP3. MP3 need a licence to broadcast. Currently
the transcoder will not work. WIP");
01148             bool result = this.Controller.CreateTranscoder(txbStreamName.Text,
01149                 (cmbEncoder.SelectedItem.ToString() == StreamType.MP3.ToString()) ?
StreamType.MP3 : StreamType.AACPlus,
01150                 int.Parse(cmbSampleRate.SelectedItem.ToString()), int.Parse(cmbBitrate.SelectedItem
.ToString()), txbStreamUrl.Text, ip, (int)nudPort.Value, (int)nudAdminPort.Value, txbServerPassword.Text,
this.IdWebradio);
01151             if (!result)
01152                 MessageBox.Show("Transcoder already exist or name is invalid", "Error");
01153         }
01154         else
01155             MessageBox.Show("IP Address is invalid", "Error");
01156     }
01157     else
01158         MessageBox.Show("Please enter a valid stream's name and a server's password.(1-" +
MAX_NAME_LENGTH + " characters)", "Error");
01159     }
01160
01173     private void btnDeleteTranscoder_Click(object sender, EventArgs e)
01174     {
01175         if (lsbTranscoders.SelectedIndex >= 0)
01176         {
01177             if (!this.Controller.DeleteTranscoder((WebradioTranscoder)
lsbTranscoders.SelectedItem, this.IdWebradio))
01178                 MessageBox.Show("An error ocured.", "Error");
01179         }
01180         else
01181             MessageBox.Show("Please select a transcoder to delete", "Error");
01182     }
01183
01196     private void lsbTranscoders_SelectedIndexChanged(object sender, EventArgs e)
01197     {
01198         this.ShowTranscoderInfos((WebradioTranscoder)lsbTranscoders.SelectedItem);
01199     }
01200
01212     private void ShowTranscoderInfos(WebradioTranscoder transcoder)
01213     {
01214         if (transcoder != null)
01215         {
01216             txbStreamNameEdit.Text = transcoder.Name;
01217             txbStreamUrlEdit.Text = transcoder.Url;
01218             txbServerIPEdit.Text = transcoder.Ip.ToString();
01219             txbServerPasswordEdit.Text = transcoder.Password;
01220             nudPortEdit.Value = transcoder.Port;
01221             nudAdminPortEdit.Value = transcoder.AdminPort;
01222             cmbSampleRateEdit.SelectedItem = transcoder.SampleRate.ToString();
01223             cmbBitrateEdit.SelectedItem = transcoder.Birate;
01224             cmbEncoderEdit.SelectedItem = (transcoder.StreamType == StreamType.MP3) ? "MP3" : "AAC+";
01225
01226             bool running = transcoder.IsRunning();
01227             lblStatusTranscoder.Text = (running) ? "On" : "Off";
01228             lblStatusTranscoder.ForeColor = (running) ? Color.Green : Color.Red;
01229             btnStartTranscoder.Enabled = !running;
01230             btnStopTranscoder.Enabled = running;
01231             btnNextTrack.Enabled = running;
01232
01233             btnStartCapture.Enabled = !transcoder.Capture;
01234             btnStopCapture.Enabled = transcoder.Capture;
01235         }
01236     }
01237
01251     private void btnUpdate_Click(object sender, EventArgs e)
01252     {
01253         if (lsbTranscoders.SelectedIndex >= 0)
01254         {
01255             if (MessageBox.Show("Transcoder will restart if it's running after update. Do you really
want to update ?", "Update", MessageBoxButtons.YesNo, MessageBoxIcon.Question) ==
System.Windows.Forms.DialogResult.Yes)
01256             {
01257                 if (!string.IsNullOrEmpty(txbStreamNameEdit.Text.Trim()) && !string.IsNullOrEmpty(
txbServerPasswordEdit.Text.Trim()))
01258                 {
01259                     IPAddress ip;
01260                     if (IPAddress.TryParse(txbServerIPEdit.Text, out ip))
01261                     {
01262                         WebradioTranscoder transcoder = (WebradioTranscoder)lsbTranscoders.SelectedItem
;
01263                         transcoder.Name = txbStreamNameEdit.Text;
01264                         transcoder.Url = txbStreamUrlEdit.Text;
01265                         transcoder.Password = txbServerPasswordEdit.Text;
01266                         transcoder.Ip = ip;

```

```

01267             transcoder.Port = (int)nudPortEdit.Value;
01268             transcoder.AdminPort = (int)nudAdminPortEdit.Value;
01269             transcoder.Birate = int.Parse(cmbBitrateEdit.SelectedItem.ToString());
01270             transcoder.SampleRate = int.Parse(cmbSampleRateEdit.SelectedItem.ToString());
01271             transcoder.StreamType = (cmbEncoderEdit.SelectedItem.ToString() ==
StreamType.MP3.ToString()) ? StreamType.MP3 : StreamType.AACPlus;
01272             if (!this.Controller.UpdateTranscoder(transcoder,
ckbTranscoderDebug.Checked, this.IdWebradio))
01273                 MessageBox.Show("An error has occurred", "Error");
01274             else
01275             {
01276                 this.ShowTranscoderInfos(transcoder);
01277                 MessageBox.Show("Update successful", "Success");
01278             }
01279             else
01280                 MessageBox.Show("IP address is invalid", "Error");
01281         }
01282         else
01283             MessageBox.Show("Please enter a name and a password", "Error");
01284     }
01285     }
01286     else
01287         MessageBox.Show("Please select a transcoder", "Error");
01288 }
01289
01290 private void btnStartTranscoder_Click(object sender, EventArgs e)
01291 {
01292     if (lsbTranscoders.SelectedIndex >= 0)
01293     {
01294         WebradioTranscoder transcoder = (WebradioTranscoder)lsbTranscoders.SelectedItem;
01295         if (this.Controller.StartTranscoder(transcoder, ckbTranscoderDebug
.Checked, this.IdWebradio))
01296         {
01297             this.ShowTranscoderInfos(transcoder);
01298         }
01299         else
01300             MessageBox.Show("An error has occurred. Please terminate sc_trans process.", "Error");
01301     }
01302     else
01303         MessageBox.Show("Please select a transcoder", "Error");
01304 }
01305
01306 private void btnStopTranscoder_Click(object sender, EventArgs e)
01307 {
01308     if (lsbTranscoders.SelectedIndex >= 0)
01309     {
01310         WebradioTranscoder transcoder = (WebradioTranscoder)lsbTranscoders.SelectedItem;
01311         if (this.Controller.StopTranscoder(transcoder, this.IdWebradio))
01312         {
01313             this.ShowTranscoderInfos(transcoder);
01314         }
01315         else
01316             MessageBox.Show("An error has occurred.\n- Please terminate sc_trans process.\n- Please
check that sc_trans.exe is in the shoutcast folder.", "Error");
01317     }
01318     else
01319         MessageBox.Show("Please select a transcoder", "Error");
01320 }
01321
01322 private void btnShowTranscoderLog_Click(object sender, EventArgs e)
01323 {
01324     if (lsbTranscoders.SelectedIndex >= 0)
01325     {
01326         try
01327         {
01328             Process.Start("notepad", Directory.GetCurrentDirectory() + "\\\" + ((WebradioTranscoder)
lsbTranscoders.SelectedItem).LogFilename.Replace("/", "\\"));
01329         }
01330         catch
01331         {
01332             MessageBox.Show("Impossible to access logfile", "Error");
01333         }
01334     }
01335 }
01336
01337 private void generateAllConfigsToolStripMenuItem_Click(object sender, EventArgs e)
01338 {
01339     this.Controller.GenerateAllConfigs(this.IdWebradio);
01340 }
01341
01342 private void btnSaveServer_Click(object sender, EventArgs e)
01343 {
01344     if (MessageBox.Show("Server will restart if it's running after update. Do you really want to

```

```

        update ?", "Update", MessageBoxButtons.YesNo, MessageBoxIcon.Question) ==
        System.Windows.Forms.DialogResult.Yes)
01409     {
01410         if (!string.IsNullOrEmpty(txbLocalServerPassword.Text.Trim()) && !string.IsNullOrEmpty(
txbLocalServerAdminPassword.Text.Trim()))
01411     {
01412         if (txbLocalServerPassword.Text != txbLocalServerAdminPassword.Text)
01413         {
01414             if (this.Controller.UpdateServer(ckbServerDebug.Checked, (int
)nudPortServer.Value, txbLocalServerPassword.Text, txbLocalServerAdminPassword.Text, (int)nudMaxListener.
Value, this.IdWebradio))
01415                 MessageBox.Show("Server informations updated.", "Success");
01416             else
01417                 MessageBox.Show("An error has occurred", "Error");
01418         }
01419         else
01420             MessageBox.Show("Password must be different", "Error");
01421     }
01422     else
01423         MessageBox.Show("Please enter a password and an admin password.", "Error");
01424     }
01425 }
01426
01439 private void btnStartServer_Click(object sender, EventArgs e)
01440 {
01441     if (!this.Controller.StartServer(this.IdWebradio, ckbServerDebug.Checked))
01442         MessageBox.Show("An error has occurred.\n- Please terminate sc_server process.\n- Please
check that sc_serv.exe is in the shoutcast folder.", "Error");
01443 }
01444
01457 private void btnStopServer_Click(object sender, EventArgs e)
01458 {
01459     if (!this.Controller.StopServer(this.IdWebradio))
01460         MessageBox.Show("An error has occurred. Please terminate sc_server process.", "Error");
01461 }
01462
01475 private void btnShowWebInterface_Click(object sender, EventArgs e)
01476 {
01477     this.Controller.ShowServerWebInterface(this.IdWebradio);
01478 }
01479
01492 private void btnShowWebAdministration_Click(object sender, EventArgs e)
01493 {
01494     this.Controller.ShowServerWebAdmin(this.IdWebradio);
01495 }
01496
01509 private void aboutToolStripMenuItem_Click(object sender, EventArgs e)
01510 {
01511     MessageBox.Show("WebradioManager V0.1\nSimon Menetrey\nTravail de diplôme 2014", "About",
MessageBoxButtons.OK, MessageBoxIcon.Information);
01512 }
01513
01526 private void btnShowServerLog_Click(object sender, EventArgs e)
01527 {
01528     try
01529     {
01530         Process.Start("notepad", Directory.GetCurrentDirectory() + "\\\" + this.
Controller.GetWebradio(this.IdWebradio).Server.LogFilename.Replace("/", "\\"));
01531     }
01532     catch
01533     {
01534         MessageBox.Show("Impossible to access logfile", "Error");
01535     }
01536 }
01537
01550 private void btnResolve_Click(object sender, EventArgs e)
01551 {
01552     bool editSection = false;
01553     if ((sender as Button).Tag != null)
01554         editSection = true;
01555     IPAddress ip;
01556     if (!GetResolvedConnexionIPAddress((editSection) ? txbServerIPEdit.Text : txbServerIP.Text, out
ip))
01557         MessageBox.Show("Impossible to resolve this dns name", "Error");
01558     else
01559     {
01560         if (editSection)
01561             txbServerIPEdit.Text = ip.ToString();
01562         else
01563             txbServerIP.Text = ip.ToString();
01564     }
01565 }
01566
01583 private static bool GetResolvedConnexionIPAddress(string serverNameOrURL,
01584     out IPAddress resolvedIPAddress)
01585 {

```

```

01586         bool isResolved = false;
01587         IPEndPoint hostEntry = null;
01588         IPAddress resolvIP = null;
01589         try
01590         {
01591             if (!IPAddress.TryParse(serverNameOrURL, out resolvIP))
01592             {
01593                 hostEntry = Dns.GetHostEntry(serverNameOrURL);
01594
01595                 if (hostEntry != null && hostEntry.AddressList != null
01596                     && hostEntry.AddressList.Length > 0)
01597                 {
01598                     if (hostEntry.AddressList.Length == 1)
01599                     {
01600                         resolvIP = hostEntry.AddressList[0];
01601                         isResolved = true;
01602                     }
01603                     else
01604                     {
01605                         foreach (IPAddress var in hostEntry.AddressList)
01606                         {
01607                             if (var.AddressFamily == AddressFamily.InterNetwork)
01608                             {
01609                                 resolvIP = var;
01610                                 isResolved = true;
01611                                 break;
01612                             }
01613                         }
01614                     }
01615                 }
01616             }
01617             else
01618             {
01619                 isResolved = true;
01620             }
01621         }
01622         catch
01623         {
01624             isResolved = false;
01625             resolvIP = null;
01626         }
01627         finally
01628         {
01629             resolvedIPAddress = resolvIP;
01630         }
01631
01632         return isResolved;
01633     }
01634
01647     private void btnNextTrack_Click(object sender, EventArgs e)
01648     {
01649         if (lsbTranscoders.SelectedIndex >= 0)
01650         {
01651             if (!this.Controller.TranscoderNextTrack((WebradioTranscoder)
01652 lsbTranscoders.SelectedItem))
01653                 MessageBox.Show("An error occured.", "Error");
01654             else
01655                 MessageBox.Show("Please select a running transcoder.", "Error");
01656         }
01657
01670     private void btnClearHistory_Click(object sender, EventArgs e)
01671     {
01672         if (lsbTranscoders.SelectedIndex >= 0)
01673         {
01674             if (this.Controller.ClearHistory((WebradioTranscoder)lsbTranscoders.
01675 SelectedItem).Id)
01676                 MessageBox.Show("History cleared", "Success");
01677             else
01678                 MessageBox.Show("An error has occured", "Error");
01679             else
01680                 MessageBox.Show("Please select a transcoder.", "Error");
01681         }
01682
01695     private void btnGenerateHistory_Click(object sender, EventArgs e)
01696     {
01697         if (lsbTranscoders.SelectedIndex >= 0)
01698         {
01699             SaveFileDialog SFD = new SaveFileDialog();
01700             SFD.Filter = ".pdf|PDF";
01701             SFD.FileName = "history.pdf";
01702             if (SFD.ShowDialog() == System.Windows.Forms.DialogResult.OK)
01703             {
01704                 if (this.Controller.GenerateHistory(this.IdWebradio, ((
01705 WebradioTranscoder)lsbTranscoders.SelectedItem).Name, ((WebradioTranscoder)lsbTranscoders.SelectedItem).Id, SFD.
01706 FileName))

```

```

01705         {
01706             if (MessageBox.Show("Do you want to view the pdf file ?", "Success",
01707                 MessageBoxButtons.YesNo, MessageBoxIcon.Question) == System.Windows.Forms.DialogResult.Yes)
01708                 Process.Start(SFD.FileName);
01709             else
01710                 MessageBox.Show("An error has occured", "Error");
01711         }
01712     }
01713     else
01714         MessageBox.Show("Please select a transcoder.", "Error");
01715 }
01716
01717 private void btnModifyName_Click(object sender, EventArgs e)
01718 {
01719     if (MessageBox.Show("To rename this webradio, all running process (transcoder and server) will
01720         be shutting down. Are you sure ?", "Process", MessageBoxButtons.YesNo, MessageBoxIcon.Question) ==
01721         System.Windows.Forms.DialogResult.Yes)
01722     {
01723         if (!string.IsNullOrEmpty(txbWebradioName.Name.Trim()) && txbWebradioName.Name.Length <=
01724             MAX_NAME_LENGTH)
01725         {
01726             if (this.Controller.ModifyWebradioName(txbWebradioName.Text
01727                 , this.IdWebradio))
01728                 MessageBox.Show("Modification completed", "Success");
01729             else
01730                 MessageBox.Show("This name is already used", "Error");
01731         }
01732         else
01733             MessageBox.Show("Please enter a valid name. (1-" + MAX_NAME_LENGTH + " characters)", "
01734             Error");
01735     }
01736 }
01737
01738 private void dgvCellEndEdit(object sender, DataGridViewCellEventArgs e)
01739 {
01740     DataGridView dgv = (sender as DataGridView);
01741     DataGridViewRow row = dgv.Rows[e.RowIndex];
01742     AudioFile file;
01743     if (dgv.Tag.ToString() == AudioType.Music.ToString())
01744     {
01745         file = new Music(int.Parse(row.Cells["colId"].Value.ToString()),
01746             row.Cells["colPath"].Value.ToString(),
01747             row.Cells["colTitle"].Value.ToString(),
01748             row.Cells["colArtist"].Value.ToString(),
01749             row.Cells["colAlbum"].Value.ToString(),
01750             int.Parse(row.Cells["colYear"].Value.ToString()),
01751             row.Cells["colLabel"].Value.ToString(),
01752             new TimeSpan(),
01753             row.Cells["colGender"].Value.ToString());
01754     }
01755     else
01756     {
01757         file = new Ad(int.Parse(row.Cells["colId"].Value.ToString()),
01758             row.Cells["colPath"].Value.ToString(),
01759             row.Cells["colTitle"].Value.ToString(),
01760             row.Cells["colArtist"].Value.ToString(),
01761             row.Cells["colAlbum"].Value.ToString(),
01762             int.Parse(row.Cells["colYear"].Value.ToString()),
01763             row.Cells["colLabel"].Value.ToString(),
01764             new TimeSpan(),
01765             row.Cells["colGender"].Value.ToString());
01766     }
01767     if (!this.Controller.UpdateAudioFile(file))
01768         MessageBox.Show("An error has occured", "Error");
01769 }
01770
01771 private void btnUpdateAudioDevice_Click(object sender, EventArgs e)
01772 {
01773     this.UpdateAudioDevices();
01774 }
01775
01776 private void btnStartCapture_Click(object sender, EventArgs e)
01777 {
01778     if (lsbTranscoders.SelectedIndex >= 0)
01779     {
01780         this.Controller.TranscoderCapture(true, cmbAudioDevice.SelectedItem.ToString(), (
01781             WebradioTranscoder)lsbTranscoders.SelectedItem, this.IdWebradio);
01782     }
01783     else
01784         MessageBox.Show("Please select a transcoder.", "Error");
01785 }
01786
01787 private void btnStopCapture_Click(object sender, EventArgs e)
01788 {
01789     if (lsbTranscoders.SelectedIndex >= 0)
01790     {

```

```

01845             this.Controller.TranscoderCapture(false, cmbAudioDevice.SelectedItem.ToString(), (
WebradioTranscoder)lsbTranscoders.SelectedItem, this.IdWebradio);
01846         }
01847         else
01848             MessageBox.Show("Please select a transcoder.", "Error");
01849     }
01850
01863     private void btnUpdateListeners_Click(object sender, EventArgs e)
01864     {
01865         List<WebradioListener> listeners = this.Controller.GetServerListeners(this.IdWebradio);
01866         dgvServerListeners.Rows.Clear();
01867         foreach (WebradioListener listener in listeners)
01868         {
01869             string[] infos = new string[] { listener.Hostname, listener.Useragent,
listener.ConnectionTime.ToString(), listener.Uid.ToString() };
01870             dgvServerListeners.Rows.Add(infos);
01871         }
01872         this.Controller.UpdateServerStats(this.IdWebradio);
01873     }
01874
01887     private void checkLibraryToolStripMenuItem_Click(object sender, EventArgs e)
01888     {
01889         if (this.Controller.CheckLibrary())
01890             MessageBox.Show("Library has been checked and invalids files has been deleted.", "Success");
01891         else
01892             MessageBox.Show("An error occurred", "Error");
01893     }
01894
01895     #endregion
01896
01897 }
01898 }

```

## 7.7 AudioFile.cs File Reference

Implements the audio file class.

### Classes

- class [WebradioManager.AudioFile](#)  
An audio file. Abstract class.

### Namespaces

- package [WebradioManager](#)

### 7.7.1 Detailed Description

Implements the audio file class.

Definition in file [AudioFile.cs](#).

## 7.8 AudioFile.cs

```

00001
00007 using System;
00008
00009 namespace WebradioManager
00010 {
00020     public abstract class AudioFile
00021     {
00022         #region Const
00023         // \brief Number of elements (for an audiofile).
00024         const int NUMBER_OF_ELEMENTS = 9;
00025         // \brief The default identifier.
00026         const int DEFAULT_ID = 0;
00027         #endregion

```

```

00028
00029     #region Fields
00030     // \brief The identifier.
00031     private int _id;
00032     // \brief Filename of the audiofile.
00033     private string _filename;
00034     // \brief The title.
00035     private string _title;
00036     // \brief The artist.
00037     private string _artist;
00038     // \brief The album.
00039     private string _album;
00040     // \brief The year.
00041     private int _year;
00042     // \brief The label.
00043     private string _label;
00044     // \brief The duration.
00045     private TimeSpan _duration;
00046     // \brief The gender.
00047     private string _gender;
00048     // \brief The type.
00049     private AudioType _type;
00050     #endregion
00051
00052     #region Properties
00053
00062     public int Id
00063     {
00064         get { return _id; }
00065         set { _id = value; }
00066     }
00067
00076     public string Filename
00077     {
00078         get { return _filename; }
00079         set { _filename = value; }
00080     }
00081
00090     public string Title
00091     {
00092         get { return _title; }
00093         set { _title = value; }
00094     }
00095
00104     public string Artist
00105     {
00106         get { return _artist; }
00107         set { _artist = value; }
00108     }
00109
00118     public string Album
00119     {
00120         get { return _album; }
00121         set { _album = value; }
00122     }
00123
00132     public int Year
00133     {
00134         get { return _year; }
00135         set { _year = value; }
00136     }
00137
00146     public string Label
00147     {
00148         get { return _label; }
00149         set { _label = value; }
00150     }
00151
00160     public TimeSpan Duration
00161     {
00162         get { return _duration; }
00163         set { _duration = value; }
00164     }
00165
00174     public string Gender
00175     {
00176         get { return _gender; }
00177         set { _gender = value; }
00178     }
00179
00188     public AudioType Type
00189     {
00190         get { return _type; }
00191         set { _type = value; }
00192     }
00193
00194     #endregion

```

```

00195
00196         #region Methods
00197
00218         public AudioFile(int id, string filename, string title, string artist, string album, int
year, string label, TimeSpan duration, string gender, AudioType audiotype)
00219         {
00220             this.Id = id;
00221             this.Filename = filename;
00222             this.Title = title;
00223             this.Artist = artist;
00224             this.Album = album;
00225             this.Year = year;
00226             this.Label = label;
00227             this.Duration = duration;
00228             this.Gender = gender;
00229             this.Type = audiotype;
00230         }
00231
00251         public AudioFile(string filename, string title, string artist, string album, int year,
string label, TimeSpan duration, string gender, AudioType audiotype)
00252             :this(DEFAULT_ID,filename, title, artist, album, year, label, duration, gender, audiotype)
00253         {
00254             //NO CODE
00255         }
00256
00268         public string[] GetInfosArray()
00269         {
00270             string[] infos = new string[NUMBER_OF_ELEMENTS];
00271
00272             infos[0] = this.Id.ToString();
00273             infos[1] = this.Title;
00274             infos[2] = this.Artist;
00275             infos[3] = this.Album;
00276             infos[4] = this.Year.ToString();
00277             infos[5] = this.Label;
00278             infos[6] = this.Duration.ToString(@"\:mm\:ss");
00279             infos[7] = this.Gender;
00280             infos[8] = this.Filename;
00281
00282             return infos;
00283         }
00284         #endregion
00285     }
00286 }

```

## 7.9 AudioType.cs File Reference

Implements the audio type enum.

### Namespaces

- package [WebradioManager](#)

### Enumerations

- enum [WebradioManager.AudioType](#) { **Music** = 2, **Ad** = 1 }

*Values that represent AudioType's id. Defined in DB.*

#### 7.9.1 Detailed Description

Implements the audio type enum.

Definition in file [AudioType.cs](#).

## 7.10 AudioType.cs

```

00001
00007 namespace WebradioManager

```



```

00008 {
00015     public enum AudioType
00016     {
00017         ///< An enum constant representing the music option
00018         Music = 2,
00019         ///< An enum constant representing the ad option
00020         Ad = 1,
00021     }
00022 }

```

## 7.11 Bdd.cs File Reference

Implements the bdd class.

### Classes

- class [WebradioManager.Bdd](#)  
A bdd connection.

### Namespaces

- package [WebradioManager](#)

#### 7.11.1 Detailed Description

Implements the bdd class.

Definition in file [Bdd.cs](#).

## 7.12 Bdd.cs

```

00001
00007 using System;
00008 using System.Collections.Generic;
00009 using System.Data.SQLite;
00010 using System.Net;
00011
00012 namespace WebradioManager
00013 {
00023     public class Bdd
00024     {
00025         #region Const
00026         ///

```

```

00080     {
00081         Dictionary<int, Webradio> webradios = new Dictionary<int, Webradio>();
00082         SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT * FROM twebradio");
00083         while (reader.Read())
00084         {
00085             webradios.Add( int.Parse(reader["id"].ToString()), new Webradio(reader["name"].
ToString(), int.Parse(reader["id"].ToString())));
00086         }
00087         reader.Close();
00088
00089         foreach (KeyValuePair<int, Webradio> pair in webradios)
00090         {
00091             Webradio wr = pair.Value;
00092             //Server
00093             int id = wr.Id;
00094             reader = this.Controls.ExecuteReader("SELECT * FROM tserver WHERE webradioid = " +
id.ToString());
00095             reader.Read();
00096             wr.Server = new WebradioServer(int.Parse(reader["port"].ToString()),
reader["logfilename"].ToString(),
00097             reader["configfilename"].ToString(),
00098             reader["password"].ToString(),
00099             reader["adminpassword"].ToString(),
00100             int.Parse(reader["maxlistener"].ToString()));
00101             reader.Close();
00102             //----
00103
00104             //Calendar
00105             reader = this.Controls.ExecuteReader("SELECT id, filename FROM tcalendar WHERE
webradioid = "
00106             + id.ToString());
00107             reader.Read();
00108             wr.Calendar = new WebradioCalendar(int.Parse(reader["id"].ToString()),
reader["filename"].ToString());
00109             reader.Close();
00110             reader = this.Controls.ExecuteReader("SELECT ce.id AS EventId, ce.playlistid,
ce.starttime, ce.duration, ce.name AS EventName, ce.repeat, ce.priority, ce.shuffle, ce.loopatend, p.name AS
PlaylistName, p.filename AS PlaylistFilename, at.name AS AudiotypeName FROM tcalendarevent ce, tplaylist p,
taudiotype at WHERE ce.calendarid = " + wr.Calendar.Id + " AND ce.playlistid = p.id AND p.typeid = at.id");
00111             while (reader.Read())
00112             {
00113                 string[] time = reader["starttime"].ToString().Split(':');
00114                 TimeSpan start = new TimeSpan(int.Parse(time[0]), int.Parse(time[1]), int.Parse(time[2]));
00115
00116                 time = reader["duration"].ToString().Split(':');
00117                 TimeSpan duration = new TimeSpan(int.Parse(time[0]), int.Parse(time[1]), int.Parse(time[2]));
00118             };
00119             Playlist playlist;
00120             if (reader["AudiotypeName"].ToString() == AudioType.Music.ToString())
00121                 playlist = new PlaylistMusic(reader["PlaylistName"].ToString(), reader
["PlaylistFilename"].ToString());
00122             else
00123                 playlist = new PlaylistAd(reader["PlaylistName"].ToString(), reader["
PlaylistFilename"].ToString());
00124             wr.Calendar.Events.Add(new CalendarEvent (int.Parse(reader["EventId"].
ToString()), reader["EventName"].ToString(),
00125             start,
00126             duration,
00127             int.Parse(reader["repeat"].ToString()),
00128             int.Parse(reader["priority"].ToString()),
00129             Convert.ToBoolean(reader["shuffle"].ToString()),
00130             Convert.ToBoolean(reader["loopatend"].ToString()),
00131             playlist));
00132             reader.Close();
00133             //---
00134
00135             //Playlists
00136             reader = this.Controls.ExecuteReader("SELECT p.id, p.name AS PlaylistName, p.filename,
t.name AS AudioType FROM tplaylist p, taudiotype t WHERE p.typeid = t.id AND webradioid = " + id.ToString());
00137             while (reader.Read())
00138             {
00139                 Playlist p = null;
00140                 if (reader["AudioType"].ToString() == AudioType.Ad.ToString())
00141                     p = new PlaylistAd(int.Parse(reader["id"].ToString()), reader["
PlaylistName"].ToString(), reader["filename"].ToString());
00142                 else if (reader["AudioType"].ToString() == AudioType.Music.ToString())
00143                     p = new PlaylistMusic(int.Parse(reader["id"].ToString()), reader["
PlaylistName"].ToString(), reader["filename"].ToString());
00144                 wr.Playlists.Add(p);
00145             }
00146             reader.Close();
00147             foreach (Playlist playlist in wr.Playlists)
00148             {
00149                 reader = this.Controls.ExecuteReader("SELECT m.filename FROM tmusic m,
tplaylist_has_music pm WHERE pm.playlistid = " + playlist.Id + " AND m.id = pm.musicid");
00150                 while (reader.Read())

```

```

00150         {
00151             playlist.AudioFileList.Add(reader["filename"].ToString());
00152         }
00153     }
00154     reader.Close();
00155     //Transcoders
00156     reader = this.Controls.ExecuteReader("SELECT c.filename AS CalendarFilename, tr.id,
tr.name AS TransName, tr.bitrate, tr.samplerate, tr.url, tr.ip, tr.port, tr.adminport, tr.password,
tr.configfilename, tr.logfilename, st.name AS StreamName FROM tcalendar c, ttranscoder tr, tstreamtype st WHERE
tr.webradioid = " + id.ToString() + " AND tr.streamtypeid = st.id AND c.webradioid = " + id.ToString());
00157     while (reader.Read())
00158     {
00159         WebradioTranscoder trans = null;
00160         if (reader["StreamName"].ToString() == StreamType.MP3.ToString())
00161             trans = new TranscoderMp3(int.Parse(reader["id"].ToString()),
00162                 reader["TransName"].ToString(),
00163                 int.Parse(reader["bitrate"].ToString()),
00164                 int.Parse(reader["samplerate"].ToString()),
00165                 IPAddress.Parse(reader["ip"].ToString()),
00166                 int.Parse(reader["port"].ToString()),
00167                 int.Parse(reader["adminport"].ToString()),
00168                 reader["url"].ToString(),
00169                 reader["password"].ToString(),
00170                 reader["configfilename"].ToString(),
00171                 reader["logfilename"].ToString());
00172         else
00173             trans = new TranscoderAacPlus(int.Parse(reader["id"].ToString()),
00174                 reader["TransName"].ToString(),
00175                 int.Parse(reader["bitrate"].ToString()),
00176                 int.Parse(reader["samplerate"].ToString()),
00177                 IPAddress.Parse(reader["ip"].ToString()),
00178                 int.Parse(reader["port"].ToString()),
00179                 int.Parse(reader["adminport"].ToString()),
00180                 reader["url"].ToString(),
00181                 reader["password"].ToString(),
00182                 reader["configfilename"].ToString(),
00183                 reader["logfilename"].ToString());
00184         trans.CalendarFile = reader["CalendarFilename"].ToString();
00185         wr.Transcoders.Add(trans);
00186     }
00187     reader.Close();
00188     //---
00189
00190     }
00191
00192     return webradios;
00193 }
00194
00206 public List<AudioFile> LoadLibrary()
00207 {
00208     List<AudioFile> audios = new List<AudioFile>();
00209     //Music
00210     SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT m.id, m.filename, m.title,
m.artist, m.album, m.year, m.label, m.duration, t.name AS AudioType, g.name AS GenderName FROM tmusic m,
taudiotype t, tgender g WHERE m.typeid = t.id AND m.genderid = g.id");
00211     while (reader.Read())
00212     {
00213         string[] time = reader["duration"].ToString().Split(':');
00214         TimeSpan duration = new TimeSpan(int.Parse(time[0]), int.Parse(time[1]), int.Parse(time[2])
);
00215         AudioFile af = null;
00216         if (reader["AudioType"].ToString() == AudioType.Ad.ToString())
00217             af = new Ad(int.Parse(reader["id"].ToString()),
00218                 reader["filename"].ToString(),
00219                 reader["title"].ToString(),
00220                 reader["artist"].ToString(),
00221                 reader["album"].ToString(),
00222                 int.Parse(reader["year"].ToString()),
00223                 reader["label"].ToString(),
00224                 duration,
00225                 reader["GenderName"].ToString());
00226         else if (reader["AudioType"].ToString() == AudioType.Music.ToString())
00227             af = new Music(int.Parse(reader["id"].ToString()),
00228                 reader["filename"].ToString(),
00229                 reader["title"].ToString(),
00230                 reader["artist"].ToString(),
00231                 reader["album"].ToString(),
00232                 int.Parse(reader["year"].ToString()),
00233                 reader["label"].ToString(),
00234                 duration,
00235                 reader["GenderName"].ToString());
00236
00237         audios.Add(af);
00238     }
00239     reader.Close();
00240
00241     return audios;

```

```

00242     }
00243
00257     public int AddWebradio(Webradio webradio)
00258     {
00259         //Webradio name must be unique !
00260         if (this.WebradioExist(webradio.Name))
00261             return ERROR;
00262         Dictionary<string, string> data = new Dictionary<string, string>();
00263         data.Add("name", webradio.Name);
00264         try
00265         {
00266             //Webradio
00267             this.Controls.Insert("twebradio", data);
00268             SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT id FROM twebradio WHERE
name = '" + webradio.Name + "'");
00269             reader.Read();
00270             int id = int.Parse(reader["id"].ToString());
00271             reader.Close();
00272             data.Clear();
00273             //Server creation
00274             data.Add("webradioid", id.ToString());
00275             data.Add("port", webradio.Server.Port.ToString());
00276             data.Add("logfile", webradio.Server.LogFilename);
00277             data.Add("configfilename", webradio.Server.ConfigFilename);
00278             data.Add("password", webradio.Server.Password);
00279             data.Add("adminpassword", webradio.Server.AdminPassword);
00280             data.Add("maxlistener", webradio.Server.MaxListener.ToString());
00281             this.Controls.Insert("tserver", data);
00282             data.Clear();
00283             //----
00284             //Calendar creation
00285             data.Add("filename", webradio.Calendar.Filename);
00286             data.Add("webradioid", id.ToString());
00287             this.Controls.Insert("tcalendar", data);
00288             data.Clear();
00289             reader = this.Controls.ExecuteReader("SELECT id FROM tcalendar WHERE webradioid = " +
id.ToString());
00290             reader.Read();
00291             webradio.Calendar.Id = int.Parse(reader["id"].ToString());
00292             reader.Close();
00293             //----
00294             return id;
00295         }
00296         catch
00297         {
00298             return ERROR;
00299         }
00300     }
00301
00315     public bool WebradioExist(string name)
00316     {
00317         SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT COUNT(*) AS Count FROM
twebradio WHERE name = '" + name + "'");
00318         reader.Read();
00319         if (int.Parse(reader["Count"].ToString()) == 0)
00320         {
00321             reader.Close();
00322             return false;
00323         }
00324         else
00325         {
00326             reader.Close();
00327             return true;
00328         }
00329     }
00330
00331 }
00332
00346     public bool DeleteWebradio(int id)
00347     {
00348         try
00349         {
00350             this.Controls.Delete("twebradio", "id = " + id.ToString());
00351             return true;
00352         }
00353         catch
00354         {
00355             return false;
00356         }
00357     }
00358
00370     public List<string> GetGenders()
00371     {
00372         List<string> genders = new List<string>();
00373         SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT * FROM tgender");
00374         while (reader.Read())
00375         {

```

```

00376         genders.Add(reader["name"].ToString());
00377     }
00378     reader.Close();
00379     return genders;
00380 }
00381
00395     public int GetGenderId(string gender)
00396     {
00397         SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT id FROM tgender WHERE name =
00398         '"+gender+"'");
00399         reader.Read();
00400         int id;
00401         if (reader.HasRows)
00402             id = int.Parse(reader["id"].ToString());
00403         else
00404             id = ERROR;
00405         reader.Close();
00406         return id;
00407     }
00421     public int AddGender(string gender)
00422     {
00423         Dictionary<string, string> data = new Dictionary<string, string>();
00424         data.Add("name", gender);
00425         this.Controls.Insert("tgender", data);
00426
00427         SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT id FROM tgender WHERE name =
00428         '"+ gender +"'");
00429         reader.Read();
00430         int id = int.Parse(reader["id"].ToString());
00431         reader.Close();
00432         return id;
00433     }
00447     public int AddAudioFile(AudioFile file)
00448     {
00449         if(this.AudioFileExist(file.Filename))
00450             return ERROR;
00451
00452         int genderId = this.GetGenderId(file.Gender);
00453         //If return error, gender doesn't exist in DB, so add it
00454         if (genderId == ERROR)
00455             //Get the new id
00456             genderId = AddGender(file.Gender);
00457
00458         Dictionary<string, string> data = new Dictionary<string, string>();
00459         data.Add("filename", file.Filename.Replace('\\', ' '));
00460         data.Add("title", file.Title);
00461         data.Add("artist", file.Artist);
00462         data.Add("album", file.Album);
00463         data.Add("year", file.Year.ToString());
00464         data.Add("label", file.Label);
00465         data.Add("duration", file.Duration.ToString(@"hh\:mm\:ss"));
00466         data.Add("genderid", genderId.ToString());
00467         data.Add("typeid", ((int)file.Type).ToString());
00468         this.Controls.Insert("tmusic", data);
00469
00470         //Get the new id
00471         SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT id FROM tmusic WHERE filename
00472         = '" + file.Filename.Replace('\\', ' ') + "'");
00473         reader.Read();
00474         int id = int.Parse(reader["id"].ToString());
00475         reader.Close();
00476         return id;
00477     }
00491     public bool UpdateAudioFile(AudioFile file)
00492     {
00493         try
00494         {
00495             int genderId = this.GetGenderId(file.Gender);
00496             //If return error, gender doesn't exist in DB, so add it
00497             if (genderId == ERROR)
00498                 //Get the new id
00499                 genderId = AddGender(file.Gender);
00500             Dictionary<string, string> data = new Dictionary<string, string>();
00501             data.Add("title", file.Title);
00502             data.Add("artist", file.Artist);
00503             data.Add("album", file.Album);
00504             data.Add("year", file.Year.ToString());
00505             data.Add("label", file.Label);
00506             data.Add("genderid", genderId.ToString());
00507             data.Add("typeid", ((int)file.Type).ToString());
00508             this.Controls.Update("tmusic", data, "id = " + file.Id);
00509             return true;
00510         }
00511         catch

```



```

00677         public bool RemoveFromPlaylist(int idAudioFile, int idPlaylist)
00678         {
00679             try
00680             {
00681                 this.Controls.Delete("tplaylist_has_music", "musicid = " + idAudioFile.ToString() + " AND
playlistid = " + idPlaylist.ToString());
00682                 return true;
00683             }
00684             catch
00685             {
00686                 return false;
00687             }
00688         }
00689
00704         private bool PlaylistExist(Playlist playlist, int webradioId)
00705         {
00706             SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT COUNT(*) AS Count FROM
tplaylist WHERE name = '"+playlist.Name+"' AND webradioid = "+webradioId.ToString()+" AND typeid = " + ((int)
playlist.Type).ToString());
00707             reader.Read();
00708             bool result = Convert.ToBoolean(int.Parse(reader["Count"].ToString()));
00709             reader.Close();
00710             return result;
00711         }
00712
00728         public int AddGeneratedPlaylist(Playlist playlist, List<int>
audioFilesId, int webradioId)
00729         {
00730             int idPlaylist = this.CreatePlaylist(playlist, webradioId);
00731             if (idPlaylist == ERROR)
00732                 return idPlaylist;
00733             foreach(int audioFileId in audioFilesId)
00734                 this.AddToPlaylist(audioFileId, idPlaylist);
00735             return idPlaylist;
00736         }
00737
00738         public int AddEvent(CalendarEvent newEvent, int calendarId, int playlistId)
00739         {
00740             Dictionary<string, string> data = new Dictionary<string, string>();
00741             data.Add("name", newEvent.Name);
00742             data.Add("starttime", newEvent.StartTime.ToString());
00743             data.Add("duration", newEvent.Duration.ToString());
00744             data.Add("repeat", newEvent.Repeat.ToString());
00745             data.Add("priority", newEvent.Priority.ToString());
00746             data.Add("shuffle", (newEvent.Shuffle) ? "TRUE" : "FALSE");
00747             data.Add("loopatend", "TRUE");
00748             data.Add("calendarid", calendarId.ToString());
00749             data.Add("playlistid", playlistId.ToString());
00750
00751             this.Controls.Insert("tcalendarevent", data);
00752
00753             SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT id FROM tcalendarevent WHERE
name = '"+ newEvent.Name+"' AND calendarid = " + calendarId.ToString());
00754             reader.Read();
00755             int id = int.Parse(reader["id"].ToString());
00756             reader.Close();
00757             return id;
00758         }
00759
00760         public bool EventExist(CalendarEvent aEvent, int calendarId)
00761         {
00762             SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT COUNT(*) AS Count FROM
tcalendarevent WHERE name = '"+ aEvent.Name + "' AND calendarid = " + calendarId.ToString());
00763             reader.Read();
00764             bool result = (reader["Count"].ToString() == "0")?false:true;
00765             reader.Close();
00766             return result;
00767         }
00768
00769         public bool UpdateEvent(CalendarEvent aEvent)
00770         {
00771             Dictionary<string, string> data = new Dictionary<string, string>();
00772             //Only change starttime and duration for the moment
00773             data.Add("starttime", aEvent.StartTime.ToString());
00774             data.Add("duration", aEvent.Duration.ToString());
00775             data.Add("repeat", aEvent.Repeat.ToString());
00776             try
00777             {
00778                 this.Controls.Update("tcalendarevent", data, "id = " + aEvent.Id);
00779                 return true;
00780             }
00781             catch
00782             {
00783                 return false;
00784             }
00785         }

```

```

00829
00843     public bool DeleteEvent(CalendarEvent aEvent)
00844     {
00845         try
00846         {
00847             this.Controls.Delete("tcalendarevent", "id = " + aEvent.Id.ToString());
00848             return true;
00849         }
00850         catch
00851         {
00852             return false;
00853         }
00854     }
00855
00870     public bool TranscoderExist(string name, int webradioId)
00871     {
00872         SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT COUNT(*) AS Count FROM
ttranscoder WHERE webradioid = " + webradioId.ToString() + " AND name = '" + name + "'");
00873         reader.Read();
00874         if (reader["Count"].ToString() == "0")
00875         {
00876             reader.Close();
00877             return false;
00878         }
00879         else
00880         {
00881             reader.Close();
00882             return true;
00883         }
00884     }
00885
00900     public int AddTranscoder(WebradioTranscoder transcoder, int
webradioId)
00901     {
00902         if (this.TranscoderExist(transcoder.Name, webradioId))
00903             return ERROR;
00904         try
00905         {
00906             Dictionary<string, string> data = new Dictionary<string, string>();
00907             data.Add("webradioid", webradioId.ToString());
00908             data.Add("streamtypeid", ((int)transcoder.StreamType).ToString());
00909             data.Add("bitrate", transcoder.Birate.ToString());
00910             data.Add("samplerate", transcoder.SampleRate.ToString());
00911             data.Add("name", transcoder.Name);
00912             data.Add("url", transcoder.Url);
00913             data.Add("port", transcoder.Port.ToString());
00914             data.Add("adminport", transcoder.AdminPort.ToString());
00915             data.Add("ip", transcoder.Ip.ToString());
00916             data.Add("password", transcoder.Password);
00917             data.Add("configfilename", transcoder.ConfigFilename);
00918             data.Add("logfilename", transcoder.LogFilename);
00919             this.Controls.Insert("ttranscoder", data);
00920
00921             SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT id FROM ttranscoder WHERE
webradioid = " + webradioId.ToString() + " AND name = '" + transcoder.Name + "'");
00922             reader.Read();
00923             int id = int.Parse(reader["id"].ToString());
00924             reader.Close();
00925             data.Clear();
00926             data.Add("configfilename", transcoder.ConfigFilename + id.ToString() + ".config");
00927             data.Add("logfilename", transcoder.LogFilename + "/" + id.ToString() + ".log");
00928             this.Controls.Update("ttranscoder", data, "webradioid = " + webradioId.ToString() + " AND
name = '" + transcoder.Name + "'");
00929             return id;
00930         }
00931         catch
00932         {
00933             return ERROR;
00934         }
00935     }
00936
00937
00951     public bool DeleteTranscoder(int transcoderId)
00952     {
00953         try
00954         {
00955             this.Controls.Delete("ttranscoder", "id = " + transcoderId.ToString());
00956             return true;
00957         }
00958         catch
00959         {
00960             return false;
00961         }
00962     }
00963
00977     public bool UpdateTranscoder(WebradioTranscoder transcoder)
00978     {

```



```

00979         try
00980         {
00981             Dictionary<string, string> data = new Dictionary<string, string>();
00982             data.Add("streamtypeid", ((int)transcoder.StreamType).ToString());
00983             data.Add("bitrate", transcoder.Birate.ToString());
00984             data.Add("samplerate", transcoder.SampleRate.ToString());
00985             data.Add("name", transcoder.Name);
00986             data.Add("url", transcoder.Url);
00987             data.Add("port", transcoder.Port.ToString());
00988             data.Add("adminport", transcoder.AdminPort.ToString());
00989             data.Add("ip", transcoder.Ip.ToString());
00990             data.Add("password", transcoder.Password);
00991
00992             this.Controls.Update("ttranscoder", data, "id = " + transcoder.Id.ToString());
00993             return true;
00994         }
00995         catch
00996         {
00997             return false;
00998         }
00999     }
01000
01018     public bool UpdateServer(int port, string password, string adminPassword, int
maxListener, int webradioId)
01019     {
01020         try
01021         {
01022             Dictionary<string, string> data = new Dictionary<string, string>();
01023             data.Add("port", port.ToString());
01024             data.Add("password", password);
01025             data.Add("adminpassword", adminPassword);
01026             data.Add("maxlistener", maxListener.ToString());
01027             this.Controls.Update("tserver", data, "webradioid = " + webradioId.ToString());
01028             return true;
01029         }
01030         catch
01031         {
01032             return false;
01033         }
01034     }
01035
01051     public bool AddToHistory(int transcoderId, DateTime date, string filename)
01052     {
01053         Dictionary<string, string> data = new Dictionary<string, string>();
01054         data.Add("date", date.ToString());
01055         data.Add("filename", filename);
01056         data.Add("transcoderid", transcoderId.ToString());
01057
01058         if (this.Controls.Insert("thistory", data))
01059             return true;
01060         else
01061             return false;
01062     }
01063
01078     public Dictionary<string, string> GetHistory(int transcoderId)
01079     {
01080         Dictionary<string, string> filenames = new Dictionary<string, string>();
01081         SQLiteDataReader reader = this.Controls.ExecuteReader("SELECT date, filename FROM thistory
WHERE transcoderid = " + transcoderId.ToString());
01082         while(reader.Read())
01083         {
01084             filenames.Add(reader["date"].ToString(), reader["filename"].ToString());
01085         }
01086         reader.Close();
01087         return filenames;
01088     }
01089
01103     public bool ClearHistory(int transcoderId)
01104     {
01105         try
01106         {
01107             this.Controls.Delete("thistory", "transcoderid = " + transcoderId.ToString());
01108             return true;
01109         }
01110         catch
01111         {
01112             return false;
01113         }
01114     }
01115
01130     public bool ModifyWebradioName(string name, int webradioId)
01131     {
01132         if (this.WebradioExist(name))
01133             return false;
01134         try
01135         {

```

```

01136         Dictionary<string,string> data = new Dictionary<string,string>();
01137         data.Add("name", name);
01138         this.Controls.Update("twebradio", data, "id = " + webradioId);
01139         return true;
01140     }
01141     catch
01142     {
01143         return false;
01144     }
01145 }
01146
01162 public bool UpdateFileNames(string oldName, string newName,
Webradio webradio)
01163 {
01164     try
01165     {
01166         Dictionary<string, string> data = new Dictionary<string, string>();
01167         foreach (WebradioTranscoder transcoder in webradio.
Transcoders)
01168         {
01169             data.Clear();
01170             data.Add("configfilename", transcoder.ConfigFilename.Replace(oldName, newName));
01171             data.Add("logfilename", transcoder.LogFilename.Replace(oldName, newName));
01172             this.Controls.Update("ttranscoder", data, "webradioid = " + webradio.Id);
01173         }
01174         data.Clear();
01175         data.Add("configfilename", webradio.Server.ConfigFilename.Replace(oldName, newName));
01176         data.Add("logfilename", webradio.Server.LogFilename.Replace(oldName, newName));
01177         this.Controls.Update("tserver", data, "webradioid = " + webradio.Id);
01178         foreach (Playlist playlist in webradio.Playlists)
01179         {
01180             data.Clear();
01181             data.Add("filename", playlist.Filename.Replace(oldName, newName));
01182             this.Controls.Update("tplaylist", data, "webradioid = " + webradio.Id);
01183         }
01184         data.Clear();
01185         data.Add("filename", webradio.Calendar.Filename.Replace(oldName, newName));
01186         this.Controls.Update("tcalendar", data, "webradioid = " + webradio.Id);
01187         return true;
01188     }
01189     catch
01190     {
01191         return false;
01192     }
01193 }
01194 #endregion
01195 }
01196 }

```

## 7.13 CalendarEvent.cs File Reference

Implements the calendar event class.

### Classes

- class [WebradioManager.CalendarEvent](#)  
*A calendar event.*

### Namespaces

- package [WebradioManager](#)

### Enumerations

- enum [WebradioManager.DayValue](#) {  
**Monday = 2, Tuesday = 4, Wednesday = 8, Thursday = 16,**  
**Friday = 32, Saturday = 64, Sunday = 1 }**  
*Values that represent DayValue for calendar event. [http://wiki.winamp.com/wiki/SHOUTcast\\_-\\_Calendar\\_Event\\_XML\\_File\\_Specification#Calendar\\_Tag](http://wiki.winamp.com/wiki/SHOUTcast_-_Calendar_Event_XML_File_Specification#Calendar_Tag).*

### 7.13.1 Detailed Description

Implements the calendar event class.

Definition in file [CalendarEvent.cs](#).

## 7.14 CalendarEvent.cs

```

00001
00007 using System;
00008
00009 namespace WebradioManager
00010 {
00017     public enum DayValue
00018     {
00019         ///< An enum constant representing the monday option
00020         Monday = 2,
00021         ///< An enum constant representing the tuesday option
00022         Tuesday = 4,
00023         ///< An enum constant representing the wednesday option
00024         Wednesday = 8,
00025         ///< An enum constant representing the thursday option
00026         Thursday = 16,
00027         ///< An enum constant representing the friday option
00028         Friday = 32,
00029         ///< An enum constant representing the saturday option
00030         Saturday = 64,
00031         ///< An enum constant representing the sunday option
00032         Sunday = 1,
00033     }
00034
00044     public class CalendarEvent
00045     {
00046         #region Const
00047         ///

```

```

00111         get { return _playlist; }
00112         set { _playlist = value; }
00113     }
00114
00123     public string Name
00124     {
00125         get { return _name; }
00126         set { _name = value; }
00127     }
00128
00137     public TimeSpan StartTime
00138     {
00139         get { return _startTime; }
00140         set { _startTime = value; }
00141     }
00142
00151     public TimeSpan Duration
00152     {
00153         get { return _duration; }
00154         set { _duration = value; }
00155     }
00156
00165     public int Repeat
00166     {
00167         get { return _repeat; }
00168         set { _repeat = value; }
00169     }
00170
00179     public bool Shuffle
00180     {
00181         get { return _shuffle; }
00182         set { _shuffle = value; }
00183     }
00184
00193     public bool Loopatend
00194     {
00195         get { return _loopatend; }
00196         set { _loopatend = value; }
00197     }
00198
00207     public int Priority
00208     {
00209         get { return _priority; }
00210         set { _priority = value; }
00211     }
00212     #endregion
00213
00214     #region Methods
00215
00233     public CalendarEvent(string name, TimeSpan starttime, TimeSpan duration, int repeat,
int priority, bool shuffle, bool loopatend, Playlist playlist)
00234     {
00235         :this(0,name,starttime,duration,repeat,priority,shuffle,loopatend,playlist)
00236     }
00237     //NO CODE
00238
00258     public CalendarEvent(int id, string name, TimeSpan starttime, TimeSpan duration, int
repeat, int priority, bool shuffle, bool loopatend, Playlist playlist)
00259     {
00260         this.Id = id;
00261         this.Name = name;
00262         this.StartTime = starttime;
00263         this.Duration = duration;
00264         this.Repeat = repeat;
00265         this.Priority = priority;
00266         this.Shuffle = shuffle;
00267         this.Loopatend = loopatend;
00268         this.Playlist = playlist;
00269     }
00270
00283     public DayWeek GetSelectedDays()
00284     {
00285         DayWeek dow = new DayWeek();
00286         dow.Monday = Convert.ToBoolean(this.Repeat & MONDAY_MASK);
00287         dow.Tuesday = Convert.ToBoolean(this.Repeat & TUESDAY_MASK);
00288         dow.Wednesday = Convert.ToBoolean(this.Repeat & WEDNESDAY_MASK);
00289         dow.Thursday = Convert.ToBoolean(this.Repeat & THURSDAY_MASK);
00290         dow.Friday = Convert.ToBoolean(this.Repeat & FRIDAY_MASK);
00291         dow.Saturday = Convert.ToBoolean(this.Repeat & SATURDAY_MASK);
00292         dow.Sunday = Convert.ToBoolean(this.Repeat & SUNDAY_MASK);
00293         return dow;
00294     }
00295     #endregion
00296 }
00297 }

```

## 7.15 DayWeek.cs File Reference

Implements the day week struct.

### Classes

- struct [WebradioManager.DayWeek](#)  
A week with boolean values for each day. Uses for store which day is selected for an [CalendarEvent](#).

### Namespaces

- package [WebradioManager](#)

#### 7.15.1 Detailed Description

Implements the day week struct.

Definition in file [DayWeek.cs](#).

## 7.16 DayWeek.cs

```

00001
00007 namespace WebradioManager
00008 {
00018     public struct DayWeek
00019     {
00020         #region Const
00021         // \brief Number of days.
00022         const int DAYS_COUNT = 7;
00023         #endregion
00024
00025         #region Fields
00026         // \brief true to monday.
00027         private bool _monday;
00028         // \brief true to tuesday.
00029         private bool _tuesday;
00030         // \brief true to wednesday.
00031         private bool _wednesday;
00032         // \brief true to thursday.
00033         private bool _thursday;
00034         // \brief true to friday.
00035         private bool _friday;
00036         // \brief true to saturday.
00037         private bool _saturday;
00038         // \brief true to sunday.
00039         private bool _sunday;
00040         #endregion
00041
00042         #region Properties
00043
00052         public bool Monday
00053         {
00054             get { return _monday; }
00055             set { _monday = value; }
00056         }
00057
00066         public bool Tuesday
00067         {
00068             get { return _tuesday; }
00069             set { _tuesday = value; }
00070         }
00071
00080         public bool Wednesday
00081         {
00082             get { return _wednesday; }
00083             set { _wednesday = value; }
00084         }
00085
00094         public bool Thursday
00095         {
00096             get { return _thursday; }

```

```

00097         set { _thursday = value; }
00098     }
00099
00108     public bool Friday
00109     {
00110         get { return _friday; }
00111         set { _friday = value; }
00112     }
00113
00122     public bool Saturday
00123     {
00124         get { return _saturday; }
00125         set { _saturday = value; }
00126     }
00127
00136     public bool Sunday
00137     {
00138         get { return _sunday; }
00139         set { _sunday = value; }
00140     }
00141     #endregion
00142
00143     #region Methods
00144
00156     public bool[] ToArray()
00157     {
00158         bool[] array = new bool[DAYS_COUNT];
00159         array[0] = this.Monday;
00160         array[1] = this.Tuesday;
00161         array[2] = this.Wednesday;
00162         array[3] = this.Thursday;
00163         array[4] = this.Friday;
00164         array[5] = this.Saturday;
00165         array[6] = this.Sunday;
00166         return array;
00167     }
00168     #endregion
00169 }
00170 }

```

## 7.17 EventAppointment.cs File Reference

Implements the event appointment class.

### Classes

- class [WebradioManager.EventAppointment](#)  
*An event appointment. Add 2 properties to the original Appointment class (from Calendar library).*

### Namespaces

- package [WebradioManager](#)

#### 7.17.1 Detailed Description

Implements the event appointment class.

Definition in file [EventAppointment.cs](#).

## 7.18 EventAppointment.cs

```

00001
00007 using Calendar;
00008
00009 namespace WebradioManager
00010 {
00020     public class EventAppointment : Appointment
00021     {

```

```

00022         #region Fields
00023         // \brief The playlist.
00024         private Playlist _playlist;
00025         // \brief The event object.
00026         private CalendarEvent _eventObject;
00027         #endregion
00028
00029         #region Properties
00030
00038         public CalendarEvent EventObject
00039         {
00040             get { return _eventObject; }
00041             set { _eventObject = value; }
00042         }
00043
00052         public Playlist Playlist
00053         {
00054             get { return _playlist; }
00055             set { _playlist = value; }
00056         }
00057         #endregion
00058
00059         #region Methods
00060
00069         public EventAppointment() : base()
00070         {
00071             //NO CODE
00072         }
00073         #endregion
00074     }
00075 }
00076 }

```

## 7.19 IController.cs File Reference

Declares the IController interface.

### Classes

- interface [WebradioManager.IController](#)

*Interface for controller.*

### Namespaces

- package [WebradioManager](#)

### 7.19.1 Detailed Description

Declares the IController interface.

Definition in file [IController.cs](#).

## 7.20 IController.cs

```

00001
00008 namespace WebradioManager
00009 {
00019     public interface IController
00020     {
00027         void UpdateView();
00028     }
00029 }

```

## 7.21 Music.cs File Reference

Implements the music class.

### Classes

- class [WebradioManager.Music](#)  
*A music.*

### Namespaces

- package [WebradioManager](#)

### 7.21.1 Detailed Description

Implements the music class.

Definition in file [Music.cs](#).

## 7.22 Music.cs

```
00001
00007 using System;
00008
00009 namespace WebradioManager
00010 {
00020     public class Music : AudioFile
00021     {
00022         #region Methods
00023
00042         public Music(int id, string filename, string title, string artist, string album, int year,
string label, TimeSpan duration, string gender):
00043             base(id, filename, title, artist, album, year, label, duration, gender,
AudioType.Music)
00044         {
00045
00046         }
00047
00066         public Music(string filename, string title, string artist, string album, int year, string
label, TimeSpan duration, string gender) :
00067             base(filename, title, artist, album, year, label, duration, gender,
AudioType.Music)
00068         {
00069
00070         }
00071         #endregion
00072     }
00073 }
```

## 7.23 Playlist.cs File Reference

Implements the playlist class.

### Classes

- class [WebradioManager.Playlist](#)  
*A playlist. Abstract class.*



## Namespaces

- package [WebradioManager](#)

### 7.23.1 Detailed Description

Implements the playlist class.

Definition in file [Playlist.cs](#).

## 7.24 Playlist.cs

```

00001
00007 using System.Collections.Generic;
00008 using System.IO;
00009
00010 namespace WebradioManager
00011 {
00021     public abstract class Playlist
00022     {
00023         #region Const
00024         // \brief The default identifier.
00025         const int DEFAULT_ID = 0;
00026         #endregion
00027
00028         #region Fields
00029         // \brief The name.
00030         private string _name;
00031         // \brief The identifier.
00032         private int _id;
00033         // \brief Filename of the file.
00034         private string _filename;
00035         // \brief The type.
00036         private AudioType _type;
00037         // \brief List of audio files's filename.
00038         private List<string> _audioFileList;
00039         #endregion
00040
00041         #region Properties
00042
00051         public List<string> AudioFileList
00052         {
00053             get { return _audioFileList; }
00054             set { _audioFileList = value; }
00055         }
00056
00065         public AudioType Type
00066         {
00067             get { return _type; }
00068             set { _type = value; }
00069         }
00070
00079         public int Id
00080         {
00081             get { return _id; }
00082             set { _id = value; }
00083         }
00084
00093         public string Filename
00094         {
00095             get { return _filename; }
00096             set { _filename = value; }
00097         }
00098
00107         public string Name
00108         {
00109             get { return _name; }
00110             set { _name = value; }
00111         }
00112         #endregion
00113
00114         #region Methods
00115
00129         public Playlist(string name, string filename, AudioType type):this(DEFAULT_ID,name
, filename,type)
00130         {
00131             //NO CODE
00132         }
00133

```

```

00148     public Playlist(int id, string name, string filename, AudioType type)
00149     {
00150         this.Id = id;
00151         this.Name = name;
00152         this.Filename = filename;
00153         this.Type = type;
00154         this.AudioFileList = new List<string>();
00155     }
00156
00166     public void GenerateConfigFile()
00167     {
00168         string output = "";
00169         if (File.Exists(this.Filename))
00170             File.Delete(this.Filename);
00171         foreach(string filename in this.AudioFileList)
00172         {
00173             output += (filename + "\n");
00174         }
00175         File.WriteAllText(this.Filename, output);
00176     }
00177
00191     public override string ToString()
00192     {
00193         return this.Name;
00194     }
00195     #endregion
00196
00197 }
00198 }

```

## 7.25 PlaylistAd.cs File Reference

Implements the playlist ad class.

### Classes

- class [WebradioManager.PlaylistAd](#)  
A *playlist ad*.

### Namespaces

- package [WebradioManager](#)

### 7.25.1 Detailed Description

Implements the playlist ad class.

Definition in file [PlaylistAd.cs](#).

## 7.26 PlaylistAd.cs

```

00001
00007 namespace WebradioManager
00008 {
00018     public class PlaylistAd : Playlist
00019     {
00020         #region Methods
00021
00034         public PlaylistAd(int id, string name, string filename):base(id,name,filename,
AudioType.Ad)
00035         {
00036
00037         }
00038
00051         public PlaylistAd(string name, string filename)
00052             : base(name, filename, AudioType.Ad)
00053         {
00054

```

```

00055     }
00056     #endregion
00057 }
00058 }
```

## 7.27 PlaylistMusic.cs File Reference

Implements the playlist music class.

### Classes

- class [WebradioManager.PlaylistMusic](#)  
A playlist music.

### Namespaces

- package [WebradioManager](#)

#### 7.27.1 Detailed Description

Implements the playlist music class.

Definition in file [PlaylistMusic.cs](#).

## 7.28 PlaylistMusic.cs

```

00001
00007 namespace WebradioManager
00008 {
00018     public class PlaylistMusic : Playlist
00019     {
00020         #region Methods
00021
00034         public PlaylistMusic(int id, string name, string filename)
00035             : base(id, name, filename, AudioType.Music)
00036         {
00037
00038         }
00039
00052         public PlaylistMusic(string name, string filename)
00053             : base(name, filename, AudioType.Music)
00054         {
00055
00056         }
00057         #endregion
00058     }
00059 }
```

## 7.29 SelectionController.cs File Reference

Implements the selection controller class.

### Classes

- class [WebradioManager.SelectionController](#)  
A controller for [SelectionView](#).

## Namespaces

- package [WebradioManager](#)

### 7.29.1 Detailed Description

Implements the selection controller class.

Definition in file [SelectionController.cs](#).

### 7.30 SelectionController.cs

```

00001
00007 using System.Collections.Generic;
00008
00009 namespace WebradioManager
00010 {
00020     public class SelectionController : IController
00021     {
00022         #region Fields
00023         // \brief The view.
00024         private SelectionView _view;
00025         // \brief The model.
00026         private WMMModel _model;
00027         #endregion
00028
00029         #region Properties
00030
00039         public WMMModel Model
00040         {
00041             get { return _model; }
00042             set { _model = value; }
00043         }
00044
00053         public SelectionView View
00054         {
00055             get { return _view; }
00056             set { _view = value; }
00057         }
00058         #endregion
00059
00060         #region Methods
00061
00073         public SelectionController(SelectionView view)
00074         {
00075             this.View = view;
00076             this.Model = new WMMModel();
00077             this.Model.AddObserver(this);
00078         }
00079
00089         public void LoadLibrary()
00090         {
00091             this.Model.LoadLibrary();
00092         }
00093
00103         public void LoadWebradios()
00104         {
00105             this.Model.LoadWebradios();
00106         }
00107
00117         public void UpdateView()
00118         {
00119             this.View.UpdateView();
00120         }
00121
00133         public List<Webradio> GetWebradios()
00134         {
00135             return this.Model.GetWebradios();
00136         }
00137
00151         public bool CreateWebradio(string name)
00152         {
00153             return this.Model.CreateWebradio(name);
00154         }
00155
00169         public bool DeleteWebradio(int id)
00170         {
00171             return this.Model.DeleteWebradio(id);
00172         }

```

```

00173
00187     public bool DuplicateWebradio(int id)
00188     {
00189         return this.Model.DuplicateWebradio(id);
00190     }
00191
00203     public void OpenWebradio(int id)
00204     {
00205
00206         AdminController admincontroller = new AdminController(id, this.
Model);
00207         this.Model.AddObserver(admincontroller);
00208     }
00209
00221     public bool StopAllProcess()
00222     {
00223         return this.Model.StopAllProcess();
00224     }
00225     #endregion
00226
00227 }
00228 }

```

## 7.31 SelectionView.cs File Reference

Implements the selection view class.

### Classes

- class [WebradioManager.SelectionView](#)  
A selection view.

### Namespaces

- package [WebradioManager](#)

#### 7.31.1 Detailed Description

Implements the selection view class.

Definition in file [SelectionView.cs](#).

## 7.32 SelectionView.cs

```

00001
00007 using System;
00008 using System.Collections.Generic;
00009 using System.Windows.Forms;
00010
00011 namespace WebradioManager
00012 {
00022     public partial class SelectionView : Form
00023     {
00024         #region Const
00025         // \brief The maximum name length.
00026         const int MAX_NAME_LENGTH = 255;
00027         #endregion
00028
00029         #region Fields
00030         // \brief The controller.
00031         private SelectionController _controller;
00032         #endregion
00033
00034         #region Properties
00035
00044         public SelectionController Controller
00045         {
00046             get { return _controller; }

```

```

00047         set { _controller = value; }
00048     }
00049 #endregion
00050
00051 #region Methods
00052
00062 public SelectionView()
00063 {
00064     InitializeComponent();
00065     this.Cursor = Cursors.WaitCursor;
00066     this.Controller = new SelectionController(this);
00067     this.Controller.LoadWebradios();
00068     this.Controller.LoadLibrary();
00069     this.UpdateView();
00070     this.Cursor = Cursors.Default;
00071 }
00072
00082 public void UpdateView()
00083 {
00084     lsbSelection.Items.Clear();
00085     List<Webradio> webradios = this.Controller.GetWebradios();
00086     foreach(Webradio wr in webradios)
00087     {
00088         lsbSelection.Items.Add(wr);
00089     }
00090 }
00091
00105 private void btnNew_Click(object sender, EventArgs e)
00106 {
00107     if (!string.IsNullOrEmpty(txbName.Text.Trim()) && txbName.Text.Length <= MAX_NAME_LENGTH)
00108     {
00109         if (this.Controller.CreateWebradio(txbName.Text))
00110             MessageBox.Show("Webradio created !");
00111         else
00112             MessageBox.Show("An error occured. (Invalid name or cannot create folders and files.)",
00113 "Error");
00114         this.UpdateView();
00115     }
00116     else
00117         MessageBox.Show("Please enter a valid webradio's name. (1-255 characters)", "Error");
00118 }
00132 private void btnDelete_Click(object sender, EventArgs e)
00133 {
00134     if (this.lsbSelection.SelectedIndex >= 0)
00135     {
00136         int id = ((Webradio)this.lsbSelection.SelectedItem).Id;
00137         if (!this.Controller.DeleteWebradio(id))
00138             MessageBox.Show("An error occured.", "Error");
00139         this.UpdateView();
00140     }
00141     else
00142         MessageBox.Show("Please select a webradio to delete.", "No webradio selected",
00143 MessageBoxButtons.OK, MessageBoxIcon.Error);
00144 }
00158 private void btnDuplicate_Click(object sender, EventArgs e)
00159 {
00160     if(this.lsbSelection.SelectedIndex >= 0)
00161     {
00162         int id = ((Webradio)this.lsbSelection.SelectedItem).Id;
00163         if (!this.Controller.DuplicateWebradio(id))
00164             MessageBox.Show("An error occured", "Error");
00165     }
00166     else
00167         MessageBox.Show("Please select a webradio to duplicate.", "No webradio selected",
00168 MessageBoxButtons.OK, MessageBoxIcon.Error);
00169 }
00183 private void btnOpen_Click(object sender, EventArgs e)
00184 {
00185     if(this.lsbSelection.SelectedIndex >= 0)
00186         this.Controller.OpenWebradio(((Webradio)this.lsbSelection.SelectedItem).Id);
00187 }
00188
00202 private void SelectionView_FormClosing(object sender, FormClosingEventArgs e)
00203 {
00204     if (MessageBox.Show("All transcoders and all servers will be shutting down. Are you sure ?", "
Close", MessageBoxButtons.YesNo, MessageBoxIcon.Question) == System.Windows.Forms.DialogResult.Yes)
00205     {
00206         if (!this.Controller.StopAllProcess())
00207         {
00208             MessageBox.Show("An error has occured", "Error");
00209             e.Cancel = true;
00210         }
00211     }

```

```

00212         else
00213             e.Cancel = true;
00214     }
00215     #endregion
00216 }
00217 }

```

## 7.33 StreamType.cs File Reference

Implements the stream type class.

### Namespaces

- package [WebradioManager](#)

### Enumerations

- enum [WebradioManager.StreamType](#) { **MP3** = 1, **AACPlus** = 2 }
- Values that represent StreamType's id. Defined in DB.*

#### 7.33.1 Detailed Description

Implements the stream type class.

Definition in file [StreamType.cs](#).

## 7.34 StreamType.cs

```

00001
00007 namespace WebradioManager
00008 {
00015     public enum StreamType
00016     {
00017         ///< An enum constant representing the mp3 option
00018         MP3 = 1,
00019         ///< An enum constant representing the aac plus option
00020         AACPlus = 2,
00021     }
00022 }

```

## 7.35 TranscoderAacPlus.cs File Reference

Implements the transcoder aac plus class.

### Classes

- class [WebradioManager.TranscoderAacPlus](#)
- A transcoder aac plus.*

### Namespaces

- package [WebradioManager](#)

### 7.35.1 Detailed Description

Implements the transcoder aac plus class.

Definition in file [TranscoderAacPlus.cs](#).

## 7.36 TranscoderAacPlus.cs

```

00001
00007 using System.Net;
00008
00009 namespace WebradioManager
00010 {
00020     public class TranscoderAacPlus : WebradioTranscoder
00021     {
00022         #region Methods
00023
00044         public TranscoderAacPlus(int id, string name, int bitrate, int sampleRate,
00045     IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename)
00046         {
00047
00048         }
00049
00070         public TranscoderAacPlus(string name, int bitrate, int sampleRate, IPAddress ip,
00071     int port, int adminport, string url, string password, string configFilename, string logFilename)
00072         : base(name, bitrate, sampleRate, ip, port, adminport, url, password, configFilename,
00073     logFilename, StreamType.AACPlus)
00074     {
00075
00076     }
00077     }
00078 }
```

## 7.37 TranscoderMp3.cs File Reference

Implements the transcoder mp 3 class.

### Classes

- class [WebradioManager.TranscoderMp3](#)  
A transcoder mp3.

### Namespaces

- package [WebradioManager](#)

### 7.37.1 Detailed Description

Implements the transcoder mp 3 class.

Definition in file [TranscoderMp3.cs](#).

## 7.38 TranscoderMp3.cs

```

00001
00007 using System.Net;
00008
00009 namespace WebradioManager
00010 {
```



```

00020     public class TranscoderMp3 : WebradioTranscoder
00021     {
00022         #region Methods
00023
00044         public TranscoderMp3(int id, string name, int bitrate, int sampleRate, IPAddress ip,
00045 int port, int adminport, string url, string password, string configFilename, string logFilename)
00046         :base(id,name,bitrate,sampleRate,ip,port, adminport, url,password,configFilename,logFilename,
00047 StreamType.MP3)
00048         {
00049
00049
00070         public TranscoderMp3(string name, int bitrate, int sampleRate, IPAddress ip, int port,
00071 int adminport, string url, string password, string configFilename, string logFilename)
00072         : base(name, bitrate, sampleRate, ip, port, adminport, url, password, configFilename,
00073 logFilename, StreamType.MP3)
00074         {
00075
00075         }
00076         #endregion
00076     }
00077 }

```

## 7.39 Webradio.cs File Reference

Implements the webradio class.

### Classes

- class [WebradioManager.Webradio](#)  
A webradio.

### Namespaces

- package [WebradioManager](#)

#### 7.39.1 Detailed Description

Implements the webradio class.

Definition in file [Webradio.cs](#).

## 7.40 Webradio.cs

```

00001
00007 using System.Collections.Generic;
00008
00009 namespace WebradioManager
00010 {
00020     public class Webradio
00021     {
00022         #region Const
00023         // \brief The default identifier.
00024         const int DEFAULT_ID = 0;
00025         #endregion
00026
00027         #region Fields
00028         // \brief The playlists list.
00029         private List<Playlist> _playlists;
00030         // \brief The calendar.
00031         private WebradioCalendar _calendar;
00032         // \brief The name.
00033         private string _name;
00034         // \brief The server.
00035         private WebradioServer _server;
00036         // \brief The identifier.
00037         private int _id;
00038         // \brief The transcoders list.

```

```

00039     private List<WebradioTranscoder> _transcoders;
00040     #endregion
00041
00042     #region Properties
00043
00052     public List<WebradioTranscoder> Transcoders
00053     {
00054         get { return _transcoders; }
00055         set { _transcoders = value; }
00056     }
00057
00066     public WebradioServer Server
00067     {
00068         get { return _server; }
00069         set { _server = value; }
00070     }
00071
00080     public string Name
00081     {
00082         get { return _name; }
00083         set { _name = value; }
00084     }
00085
00094     public WebradioCalendar Calendar
00095     {
00096         get { return _calendar; }
00097         set { _calendar = value; }
00098     }
00099
00108     public List<Playlist> Playlists
00109     {
00110         get { return _playlists; }
00111         set { _playlists = value; }
00112     }
00113
00122     public int Id
00123     {
00124         get { return _id; }
00125         set { _id = value; }
00126     }
00127     #endregion
00128
00129     #region Methods
00130
00143     public Webradio(string name, int id)
00144     {
00145         this.Name = name;
00146         this.Id = id;
00147         this.Playlists = new List<Playlist>();
00148         this.Transcoders = new List<WebradioTranscoder>();
00149     }
00150
00162     public Webradio(string name):this(name,DEFAULT_ID)
00163     {
00164         //NO CODE
00165     }
00166
00176     public void GenerateConfigFiles()
00177     {
00178         foreach (Playlist playlist in this.Playlists)
00179         {
00180             playlist.GenerateConfigFile();
00181         }
00182         this.Calendar.GenerateConfigFile();
00183         this.Server.GenerateConfigFile();
00184         foreach (WebradioTranscoder transcoder in this.
Transcoders)
00185         {
00186             transcoder.GenerateConfigFile(this.Playlists);
00187         }
00188     }
00189
00203     public override string ToString()
00204     {
00205         return this.Name + " | ID = " + this.Id.ToString();
00206     }
00207     #endregion
00208 }
00209 }

```

## 7.41 WebradioCalendar.cs File Reference

Implements the webradio calendar class.

## Classes

- class [WebradioManager.WebradioCalendar](#)  
*A webradio calendar.*

## Namespaces

- package [WebradioManager](#)

### 7.41.1 Detailed Description

Implements the webradio calendar class.

Definition in file [WebradioCalendar.cs](#).

## 7.42 WebradioCalendar.cs

```

00001
00007 using System.Collections.Generic;
00008 using System.IO;
00009 using System.Xml;
00010
00011 namespace WebradioManager
00012 {
00022     public class WebradioCalendar
00023     {
00024         #region Fields
00025         // \brief The events.
00026         private List<CalendarEvent> _events;
00027         // \brief Filename of the calendar's file.
00028         private string _filename;
00029         // \brief The identifier.
00030         private int _id;
00031         #endregion
00032
00033         #region Properties
00034
00043         public int Id
00044         {
00045             get { return _id; }
00046             set { _id = value; }
00047         }
00048
00057         public string Filename
00058         {
00059             get { return _filename; }
00060             set { _filename = value; }
00061         }
00062
00071         public List<CalendarEvent> Events
00072         {
00073             get { return _events; }
00074             set { _events = value; }
00075         }
00076         #endregion
00077
00078         #region Methods
00079
00092         public WebradioCalendar(int id, string filename)
00093         {
00094             this.Id = id;
00095             this.Filename = filename;
00096             this.Events = new List<CalendarEvent>();
00097         }
00098
00110         public WebradioCalendar(string filename)
00111         {
00112             this.Filename = filename;
00113             this.Events = new List<CalendarEvent>();
00114         }
00115
00125         public void GenerateConfigFile()
00126         {
00127             if (File.Exists(this.Filename))
00128                 File.Delete(this.Filename);

```

```

00129         XmlDocument document = new XmlDocument();
00130         XmlElement root = document.CreateElement("eventlist");
00131         foreach(CalendarEvent ev in this.Events)
00132         {
00133             XmlElement eventelement = document.CreateElement("event");
00134             eventelement.SetAttribute("type", "playlist");
00135             XmlElement playlist = document.CreateElement("playlist");
00136             playlist.SetAttribute("loopatend", (ev.Loopatend)? "1" : "0");
00137             playlist.SetAttribute("shuffle", (ev.Shuffle) ? "1" : "0");
00138             playlist.SetAttribute("priority", ev.Priority.ToString());
00139             playlist.InnerText = ev.Playlist.Name;
00140             eventelement.AppendChild(playlist);
00141
00142             XmlElement calendar = document.CreateElement("calendar");
00143             calendar.SetAttribute("starttime", ev.StartTime.ToString(@"hh\:mm\:ss"));
00144             calendar.SetAttribute("duration", ev.Duration.ToString(@"hh\:mm\:ss"));
00145             calendar.SetAttribute("repeat", ev.Repeat.ToString());
00146             eventelement.AppendChild(calendar);
00147             root.AppendChild(eventelement);
00148         }
00149
00150         document.AppendChild(root);
00151         document.Save(this.FileName);
00152     }
00153     #endregion
00154 }
00155 }

```

## 7.43 WebradioListener.cs File Reference

Implements the webradio listener class.

### Classes

- class [WebradioManager.WebradioListener](#)  
A webradio listener.

### Namespaces

- package [WebradioManager](#)

### 7.43.1 Detailed Description

Implements the webradio listener class.

Definition in file [WebradioListener.cs](#).

## 7.44 WebradioListener.cs

```

00001
00008 namespace WebradioManager
00009 {
00019     public class WebradioListener
00020     {
00021         #region Fields
00022         // \brief The hostname.
00023         private string _hostname;
00024         // \brief The useragent.
00025         private string _useragent;
00026         // \brief The connection time.
00027         private uint _connectionTime;
00028         // \brief The UID.
00029         private int _uid;
00030         #endregion
00031
00032         #region Properties
00033
00042         public int Uid

```

```

00043     {
00044         get { return _uid; }
00045         set { _uid = value; }
00046     }
00047
00056     public uint ConnectionTime
00057     {
00058         get { return _connectionTime; }
00059         set { _connectionTime = value; }
00060     }
00061
00070     public string Useragent
00071     {
00072         get { return _useragent; }
00073         set { _useragent = value; }
00074     }
00075
00084     public string Hostname
00085     {
00086         get { return _hostname; }
00087         set { _hostname = value; }
00088     }
00089
00090     #endregion
00091
00092     #region Methods
00093
00108     public WebradioListener(string hostname, string useragent, uint connectiontime, int
uid)
00109     {
00110         this.Hostname = hostname;
00111         this.Useragent = useragent;
00112         this.ConnectionTime = connectiontime;
00113         this.Uid = uid;
00114     }
00115     #endregion
00116 }
00117 }

```

## 7.45 WebradioServer.cs File Reference

Implements the webradioserver class.

### Classes

- class [WebradioManager.WebradioServer](#)  
*A shoutcast webradio server.*

### Namespaces

- package [WebradioManager](#)

### 7.45.1 Detailed Description

Implements the webradioserver class.

Definition in file [WebradioServer.cs](#).

## 7.46 WebradioServer.cs

```

00001
00007 using System;
00008 using System.Collections.Generic;
00009 using System.Diagnostics;
00010 using System.IO;
00011 using System.Net;
00012 using System.Net.Sockets;
00013 using System.Xml;

```

```

00014
00015 namespace WebradioManager
00016 {
00026     public class WebradioServer
00027     {
00028         #region Fields
00029         // \brief Filename of the server file.
00030         const string SC_SERVER_FILENAME = "\\shoutcast\\sc_serv.exe";
00031         // \brief The default admin login.
00032         public const string DEFAULT_ADMIN_LOGIN = "admin";
00033
00034         // \brief The port.
00035         private int _port;
00036         // \brief Filename of the log file.
00037         private string _logFilename;
00038         // \brief Filename of the configuration file.
00039         private string _configFilename;
00040         // \brief The password.
00041         private string _password;
00042         // \brief The admin password.
00043         private string _adminPassword;
00044         // \brief The process.
00045         private Process _process;
00046         // \brief The number of maximum listener.
00047         private int _maxListener;
00048         // \brief The statistics.
00049         private WebradioServerStats _stats;
00050
00051         #endregion
00052
00053         #region Properties
00054
00063         internal WebradioServerStats Stats
00064         {
00065             get { return _stats; }
00066             set { _stats = value; }
00067         }
00068
00077         public string WebInterfaceUrl
00078         {
00079             get
00080             {
00081                 return "http://" + this.GetLocalIpAddress() + ":" + this.Port;
00082             }
00083         }
00084
00093         public string WebAdminUrl
00094         {
00095             get
00096             {
00097                 return "http://" + this.GetLocalIpAddress() + ":" + this.Port + "/admin.cgi";
00098             }
00099         }
00100
00109         public int MaxListener
00110         {
00111             get { return _maxListener; }
00112             set { _maxListener = value; }
00113         }
00114
00123         public Process Process
00124         {
00125             get { return _process; }
00126             set { _process = value; }
00127         }
00128
00137         public string LogFilename
00138         {
00139             get { return _logFilename; }
00140             set { _logFilename = value; }
00141         }
00142
00151         public string ConfigFilename
00152         {
00153             get { return _configFilename; }
00154             set { _configFilename = value; }
00155         }
00156
00165         public string Password
00166         {
00167             get { return _password; }
00168             set { _password = value; }
00169         }
00170
00179         public string AdminPassword
00180         {
00181             get { return _adminPassword; }

```

```

00182         set { _adminPassword = value; }
00183     }
00184
00193     public int Port
00194     {
00195         get { return _port; }
00196         set { _port = value; }
00197     }
00198
00199     #endregion
00200
00201     #region Methods
00202
00218     public WebradioServer(int port, string logFilename, string configFilename, string
password, string adminPassword, int maxListener)
00219     {
00220         this.Port = port;
00221         this.LogFilename = logFilename;
00222         this.ConfigFilename = configFilename;
00223         this.Password = password;
00224         this.AdminPassword = adminPassword;
00225         this.MaxListener = maxListener;
00226         this.Stats = new WebradioServerStats();
00227     }
00228
00238     public void GenerateConfigFile()
00239     {
00240         if (File.Exists(this.ConfigFilename))
00241             File.Delete(this.ConfigFilename);
00242         string output = "";
00243         output += "logfile=" + Directory.GetCurrentDirectory() + "\\\" + this.
LogFilename.Replace('/', '\\') + ".\n";
00244         output += "portbase=" + this.Port.ToString() + ".\n";
00245         output += "password=" + this.Password + ".\n";
00246         output += "adminpassword=" + this.AdminPassword + ".\n";
00247         output += "publicserver=always" + ".\n";
00248         output += "maxuser=" + this.MaxListener.ToString() + ".\n";
00249         //Don't kick idle source
00250         output += "autodumpsourcetime=0\n";
00251         File.WriteAllText(this.ConfigFilename, output);
00252     }
00253
00265     public bool IsRunning()
00266     {
00267         bool result = false;
00268         try
00269         {
00270             foreach (Process prc in Process.GetProcesses())
00271             {
00272                 if (prc.Id == this.Process.Id)
00273                 {
00274                     result = true;
00275                 }
00276             }
00277             return result;
00278         }
00279         catch
00280         {
00281             return false;
00282         }
00283     }
00284
00298     public bool Start(bool debug)
00299     {
00300         ProcessStartInfo StartInfo = new ProcessStartInfo(Directory.GetCurrentDirectory() +
SC_SERVER_FILENAME)
00301         {
00302             CreateNoWindow = true,
00303             WindowStyle = (debug)?ProcessWindowStyle.Minimized:ProcessWindowStyle.Hidden,
00304             Arguments = "\"" + Directory.GetCurrentDirectory() + "\\\" + this.ConfigFilename.Replace('/',
00305             , '\\') + ".\"";
00306             if (this.IsRunning())
00307                 this.Process.Kill();
00308             try
00309             {
00310                 this.Process = Process.Start(StartInfo);
00311                 return true;
00312             }
00313             catch
00314             {
00315                 return false;
00316             }
00317         }
00318
00330     public bool Stop()
00331     {

```

```

00332         if (this.IsRunning() && this.Process.Responding)
00333         {
00334             try
00335             {
00336                 this.Process.Kill();
00337                 return true;
00338             }
00339             catch
00340             {
00341                 return false;
00342             }
00343         }
00344         return true;
00345     }
00346
00358     private string GetLocalIPAddress()
00359     {
00360         IPEndPoint host;
00361         string localIP = "";
00362         host = Dns.GetHostEntry(Dns.GetHostName());
00363         foreach (IPAddress ip in host.AddressList)
00364         {
00365             if (ip.AddressFamily == AddressFamily.InterNetwork)
00366             {
00367                 localIP = ip.ToString();
00368                 break;
00369             }
00370         }
00371         return localIP;
00372     }
00373
00385     public bool UpdateStats()
00386     {
00387         try
00388         {
00389             WebClient wc = new WebClient();
00390             wc.Credentials = new NetworkCredential(DEFAULT_ADMIN_LOGIN, this.
AdminPassword);
00391             string response = wc.DownloadString("http://127.0.0.1:" + this.Port + "
/admin.cgi?mode=viewxml&page=1&sid=1");
00392             XmlDocument doc = new XmlDocument();
00393             doc.LoadXml(response);
00394             XmlNodeList nodes = doc.SelectNodes("/SHOUTCASTSERVER");
00395             foreach (XmlNode xn in nodes)
00396             {
00397                 this.Stats.CurrentListeners = int.Parse(xn["CURRENTLISTENERS"].InnerText);
00398                 this.Stats.PeakListeners = int.Parse(xn["PEAKLISTENERS"].InnerText);
00399                 this.Stats.UniqueListeners = int.Parse(xn["UNIQUELISTENERS"].InnerText);
00400                 this.Stats.AverageTime = TimeSpan.FromSeconds(double.Parse(xn["AVERAGETIME"].InnerText)
);
00401             }
00402             return true;
00403         }
00404         catch
00405         {
00406             return false;
00407         }
00408     }
00409
00421     public List<WebradioListener> GetListeners()
00422     {
00423         List<WebradioListener> list = new List<WebradioListener>();
00424         if (this.IsRunning())
00425         {
00426             WebClient wc = new WebClient();
00427             wc.Credentials = new NetworkCredential(DEFAULT_ADMIN_LOGIN, this.
AdminPassword);
00428             string response = wc.DownloadString("http://127.0.0.1:" + this.Port + "
/admin.cgi?mode=viewxml&page=3&sid=1");
00429             XmlDocument doc = new XmlDocument();
00430             doc.LoadXml(response);
00431             XmlNodeList nodes = doc.SelectNodes("/SHOUTCASTSERVER/LISTENERS/LISTENER");
00432             if (nodes.Count > 0)
00433             {
00434                 foreach (XmlNode xn in nodes)
00435                 {
00436                     WebradioListener listener = new
WebradioListener(xn["HOSTNAME"].InnerText, xn["USERAGENT"].InnerText, uint.Parse(xn["
CONNECTTIME"].InnerText), int.Parse(xn["UID"].InnerText));
00437                     list.Add(listener);
00438                 }
00439             }
00440         }
00441         return list;
00442     }
00443 }
00444 #endregion

```



```
00445     }
00446 }
```

## 7.47 WebradioServerStats.cs File Reference

Implements the webradio server statistics class.

### Classes

- class [WebradioManager.WebradioServerStats](#)  
*A webradio server statistics.*

### Namespaces

- package [WebradioManager](#)

#### 7.47.1 Detailed Description

Implements the webradio server statistics class.

Definition in file [WebradioServerStats.cs](#).

## 7.48 WebradioServerStats.cs

```
00001
00002 using System;
00003
00004 namespace WebradioManager
00005 {
00006     public class WebradioServerStats
00007     {
00008         #region Fields
00009         // \brief The current listeners count.
00010         private int _currentListeners;
00011         // \brief The unique listeners count.
00012         private int _uniqueListeners;
00013         // \brief The peak listeners count.
00014         private int _peakListeners;
00015         // \brief The average time listening.
00016         private TimeSpan _averageTime;
00017         #endregion
00018
00019         #region Properties
00020
00021         public TimeSpan AverageTime
00022         {
00023             get { return _averageTime; }
00024             set { _averageTime = value; }
00025         }
00026
00027         public int PeakListeners
00028         {
00029             get { return _peakListeners; }
00030             set { _peakListeners = value; }
00031         }
00032
00033         public int UniqueListeners
00034         {
00035             get { return _uniqueListeners; }
00036             set { _uniqueListeners = value; }
00037         }
00038
00039         public int CurrentListeners
00040         {
00041             get { return _currentListeners; }
00042             set { _currentListeners = value; }
00043         }
00044         #endregion
00045     }
00046 }
```

```

00091
00092     #region Methods
00093
00103     public WebradioServerStats()
00104     {
00105         this.CurrentListeners = 0;
00106         this.UniqueListeners = 0;
00107         this.PeakListeners = 0;
00108         this.AverageTime = new TimeSpan(0,0,0);
00109     }
00110     #endregion
00111 }
00112 }

```

## 7.49 WebradioTranscoder.cs File Reference

Implements the webradio transcoder class.

### Classes

- class [WebradioManager.WebradioTranscoder](#)  
*A webradio transcoder.*

### Namespaces

- package [WebradioManager](#)

### 7.49.1 Detailed Description

Implements the webradio transcoder class.

Definition in file [WebradioTranscoder.cs](#).

## 7.50 WebradioTranscoder.cs

```

00001
00007 using System.Collections.Generic;
00008 using System.Collections.Specialized;
00009 using System.Diagnostics;
00010 using System.IO;
00011 using System.Net;
00012
00013 namespace WebradioManager
00014 {
00024     public abstract class WebradioTranscoder
00025     {
00026         #region Const
00027         // \brief The default identifier.
00028         const int DEFAULT_ID = 0;
00029         // \brief Filename of the transcoder executable file.
00030         const string SC_TRANS_FILENAME = "\\shoutcast\\sc_trans.exe";
00031         // \brief The default configuration extension.
00032         public const string DEFAULT_CONFIG_EXTENSION = ".config";
00033         // \brief The default log extension.
00034         public const string DEFAULT_LOG_EXTENSION = ".log";
00035         // \brief The default admin port.
00036         const int DEFAULT_ADMIN_PORT = 9000;
00037         // \brief The default admin login.
00038         public const string DEFAULT_ADMIN = "admin";
00039         // \brief The default admin password.
00040         public const string DEFAULT_ADMIN_PASSWORD = "admin";
00041         // \brief http://wiki.winamp.com/wiki/SHOUTcast_DNAS_Transcoder_2#Network_Options.
00042         const int PROTOCOL_VALUE = 3;
00043         #endregion
00044
00045         #region Fields
00046         // \brief The identifier.
00047         private int _id;

```

```
00048         // \brief The birate.
00049         private int _birate;
00050         // \brief The sample rate.
00051         private int _sampleRate;
00052         // \brief The name.
00053         private string _name;
00054         // \brief _URL of the document.
00055         private string _url;
00056         // \brief The IP.
00057         private IPAddress _ip;
00058         // \brief The port.
00059         private int _port;
00060         // \brief The admin port.
00061         private int _adminPort;
00062         // \brief The password.
00063         private string _password;
00064         // \brief Filename of the configuration file.
00065         private string _configFilename;
00066         // \brief Filename of the log file.
00067         private string _logFilename;
00068         // \brief The calendar file.
00069         private string _calendarFile;
00070         // \brief The current track's filename.
00071         private string _currentTrack;
00072         // \brief true to live capture.
00073         private bool _capture;
00074         // \brief Type of the stream.
00075         private StreamType _streamType;
00076         // \brief The process.
00077         private Process _process;
00078         // \brief The available bitrates.
00079         private static int[] _availableBitrates = { 64000, 96000, 128000, 256000, 320000 };
00080         // \brief The available sample rates.
00081         private static int[] _availableSampleRates = { 44100 };
00082         #endregion
00083
00084
00085         #region Properties
00086
00095         public bool Capture
00096         {
00097             get { return _capture; }
00098             set { _capture = value; }
00099         }
00100
00109         public string CurrentTrack
00110         {
00111             get { return _currentTrack; }
00112             set { _currentTrack = value; }
00113         }
00114
00123         public int AdminPort
00124         {
00125             get { return _adminPort; }
00126             set { _adminPort = value; }
00127         }
00128
00137         public string CalendarFile
00138         {
00139             get { return _calendarFile; }
00140             set { _calendarFile = value; }
00141         }
00142
00151         public Process Process
00152         {
00153             get { return _process; }
00154             set { _process = value; }
00155         }
00156
00165         public static int[] AvailableSampleRates
00166         {
00167             get { return WebradioTranscoder._availableSampleRates; }
00168             set { WebradioTranscoder._availableSampleRates = value; }
00169         }
00170
00179         public static int[] AvailableBitrates
00180         {
00181             get { return WebradioTranscoder._availableBitrates; }
00182             set { WebradioTranscoder._availableBitrates = value; }
00183         }
00184
00193         public int Id
00194         {
00195             get { return _id; }
00196             set { _id = value; }
00197         }
00198
```

```

00207     public int Birate
00208     {
00209         get { return _birate; }
00210         set { _birate = value; }
00211     }
00212
00221     public int SampleRate
00222     {
00223         get { return _sampleRate; }
00224         set { _sampleRate = value; }
00225     }
00226
00235     public string Name
00236     {
00237         get { return _name; }
00238         set { _name = value; }
00239     }
00240
00249     public string Url
00250     {
00251         get { return _url; }
00252         set { _url = value; }
00253     }
00254
00263     public IPAddress Ip
00264     {
00265         get { return _ip; }
00266         set { _ip = value; }
00267     }
00268
00277     public int Port
00278     {
00279         get { return _port; }
00280         set { _port = value; }
00281     }
00282
00291     public string Password
00292     {
00293         get { return _password; }
00294         set { _password = value; }
00295     }
00296
00305     public string ConfigFilename
00306     {
00307         get { return _configFilename; }
00308         set { _configFilename = value; }
00309     }
00310
00319     public string LogFilename
00320     {
00321         get { return _logFilename; }
00322         set { _logFilename = value; }
00323     }
00324
00333     public StreamType StreamType
00334     {
00335         get { return _streamType; }
00336         set { _streamType = value; }
00337     }
00338     #endregion
00339
00340     #region Methods
00341
00363     public WebradioTranscoder(string name, int bitrate, int sampleRate, IPAddress ip,
    int port, int adminport, string url, string password, string configFilename, string logFilename,
    StreamType st)
00364         : this(DEFAULT_ID, name, bitrate, sampleRate, ip, port, adminport, url, password,
    configFilename, logFilename, st)
00365     {
00366         //NO CODE
00367     }
00368
00391     public WebradioTranscoder(int id, string name, int bitrate, int sampleRate,
    IPAddress ip, int port, int adminport, string url, string password, string configFilename, string logFilename,
    StreamType st)
00392     {
00393         this.Id = id;
00394         this.Name = name;
00395         this.Birate = bitrate;
00396         this.SampleRate = sampleRate;
00397         this.Ip = ip;
00398         this.Port = port;
00399         this.AdminPort = adminport;
00400         this.Url = url;
00401         this.Password = password;
00402         this.LogFilename = logFilename;
00403         this.ConfigFilename = configFilename;

```

```

00404         this.StreamType = st;
00405         this.Capture = false;
00406         this.Process = new Process();
00407         this.CurrentTrack = "";
00408     }
00409
00421     public void GenerateConfigFile(List<Playlist> playlists)
00422     {
00423         if (File.Exists(this.ConfigFilename))
00424             File.Delete(this.ConfigFilename);
00425         string output = "";
00426         output += "logfile=" + Directory.GetCurrentDirectory() + "\\\" + this.
LogFilename.Replace('/', '\\') + ".\n";
00427         output += "encoder_1=" + ((this.StreamType == WebradioManager.StreamType.AACPlus) ? "aacp" : "
mp3") + ".\n";
00428         output += "bitrate_1=" + (this.Birate * 1000) + ".\n";
00429         output += "adminport=" + this.AdminPort + ".\n";
00430         output += "adminuser=" + DEFAULT_ADMIN + ".\n";
00431         output += "adminpassword=" + DEFAULT_ADMIN_PASSWORD + ".\n";
00432         output += "capturedebug=1\n";
00433
00434         output += "outprotocol_1=" + PROTOCOL_VALUE + ".\n";
00435         output += "serverip_1=" + this.Ip + ".\n";
00436         output += "serverport_1=" + this.Port + ".\n";
00437         output += "password_1=" + this.Password + ".\n";
00438         output += "streamid_1=1\n";
00439
00440         output += "streamtitle=" + this.Name + ".\n";
00441         output += "streamurl=" + this.Url + ".\n";
00442         output += "genre=Misc\n";
00443
00444         output += "calendarfile=" + Directory.GetCurrentDirectory() + "\\\" + this.
CalendarFile.Replace('/', '\\') + ".\n";
00445         int index = 0;
00446         foreach (Playlist playlist in playlists)
00447         {
00448             index++;
00449             output += "playlistfilename_" + index.ToString() + "=" + playlist.
Name + ".\n";
00450             output += "playlistfilepath_" + index.ToString() + "=" + Directory.GetCurrentDirectory() +
"\\\" + playlist.FileName.Replace('/', '\\') + ".\n";
00451         }
00452         File.WriteAllText(this.ConfigFilename, output);
00453     }
00454
00467     public bool IsRunning()
00468     {
00469         bool result = false;
00470         try
00471         {
00472             foreach (Process prc in Process.GetProcesses())
00473             {
00474                 if (prc.Id == this.Process.Id)
00475                 {
00476                     result = true;
00477                 }
00478             }
00479             if (this.Process.HasExited || !this.Process.Responding)
00480                 result = false;
00481             return result;
00482         }
00483         catch
00484         {
00485             return false;
00486         }
00487     }
00488
00489     public bool Start(bool debug)
00503     {
00504         ProcessStartInfo StartInfo = new ProcessStartInfo(Directory.GetCurrentDirectory() +
SC_TRANS_FILENAME)
00505         {
00506             CreateNoWindow = true,
00507             WindowStyle = (debug) ? ProcessWindowStyle.Minimized : ProcessWindowStyle.Hidden,
00508             Arguments = "\"" + Directory.GetCurrentDirectory() + "\\\" + this.ConfigFilename.Replace(
'/', '\\') + ".\"";
00509         };
00510         if (this.IsRunning())
00511             this.Process.Kill();
00512         try
00513         {
00514             this.Process = Process.Start(StartInfo);
00515             return true;
00516         }
00517     }
00518

```

```

00519         catch
00520         {
00521             return false;
00522         }
00523     }
00524 }
00525
00537 public bool Stop()
00538 {
00539     if (this.IsRunning() && this.Process.Responding)
00540     {
00541         try
00542         {
00543             this.Process.Kill();
00544         }
00545         catch
00546         {
00547             return false;
00548         }
00549     }
00550     return true;
00551 }
00552
00553 public string GetStatus()
00554 {
00555     WebClient wb = new WebClient();
00556     var data = new NameValueCollection();
00557     data["op"] = "getstatus";
00558     data["seq"] = "45";
00559     wb.Credentials = new NetworkCredential(DEFAULT_ADMIN, DEFAULT_ADMIN_PASSWORD);
00560     try
00561     {
00562         var response = wb.UploadValues("http://127.0.0.1:" + this.AdminPort + "/api", "POST", data);
00563     }
00564     catch
00565     {
00566         return System.Text.Encoding.UTF8.GetString(response);
00567     }
00568     return string.Empty;
00569 }
00570
00571 public void SetCaptureMode(bool active, string device)
00572 {
00573     this.Capture = active;
00574
00575     WebClient wb = new WebClient();
00576     var data = new NameValueCollection();
00577     data["op"] = "setoptions";
00578     data["seq"] = "45";
00579     data["capturedevice"] = "Contrôleur audio haute définition";
00580     wb.Credentials = new NetworkCredential(DEFAULT_ADMIN, DEFAULT_ADMIN_PASSWORD);
00581     wb.UploadValues("http://127.0.0.1:" + this.AdminPort + "/api", "POST", data);
00582
00583     data = new NameValueCollection();
00584     data["op"] = "capture";
00585     data["seq"] = "45";
00586     data["state"] = (active)?"on":"off";
00587     wb.Credentials = new NetworkCredential(WebradioTranscoder.DEFAULT_ADMIN,
00588     WebradioTranscoder.DEFAULT_ADMIN_PASSWORD);
00589     wb.UploadValues("http://127.0.0.1:" + this.AdminPort + "/api", "POST", data);
00590 }
00591
00592 public void NextTrack()
00593 {
00594     WebClient wb = new WebClient();
00595     var data = new NameValueCollection();
00596     data["op"] = "nexttrack";
00597     data["seq"] = "45";
00598     wb.Credentials = new NetworkCredential(WebradioTranscoder.DEFAULT_ADMIN,
00599     WebradioTranscoder.DEFAULT_ADMIN_PASSWORD);
00600     wb.UploadValues("http://127.0.0.1:" + this.AdminPort + "/api", "POST", data);
00601 }
00602
00603 public override string ToString()
00604 {
00605     return this.Name;
00606 }
00607
00608 #endregion
00609 }
00610 }

```

## 7.51 WModel.cs File Reference

Implements the wm model class.

### Classes

- class [WebradioManager.WModel](#)  
A data Model for the [WebradioManager](#) project.

### Namespaces

- package [WebradioManager](#)

#### 7.51.1 Detailed Description

Implements the wm model class.

Definition in file [WModel.cs](#).

## 7.52 WModel.cs

```

00001
00007 using iTextSharp.text;
00008 using iTextSharp.text.pdf;
00009 using System;
00010 using System.Collections.Generic;
00011 using System.Diagnostics;
00012 using System.IO;
00013 using System.Net;
00014 using System.Threading;
00015 using System.Xml;
00016
00017 namespace WebradioManager
00018 {
00028     public class WModel
00029     {
00030         #region Const
00031         //Default
00032         // \brief Defaults webradio's folder.
00033         public const string DEFAULT_WEBRADIOS_FOLDER = "webradios/";
00034         // \brief The default shoutcast folder.
00035         public const string DEFAULT_SHOUTCAST_FOLDER = "shoutcast/";
00036         // \brief The default logfilename.
00037         const string DEFAULT_LOGFILENAME = "log.txt";
00038         // \brief The default configfilename.
00039         const string DEFAULT_CONFIGFILENAME = "config.config";
00040         // \brief The default password.
00041         const string DEFAULT_PASSWORD = "1234";
00042         // \brief The maximum name length.
00043         const int MAX_NAME_LENGTH = 255;
00044
00045         //Server
00046         // \brief Default server folder
00047         const string DEFAULT_SERVER_FOLDER = "server/";
00048         // \brief The default server port.
00049         const int DEFAULT_SERVER_PORT = 8000;
00050         // \brief The default maximum listener.
00051         const int DEFAULT_MAX_LISTENER = 32;
00052         // \brief The default server password.
00053         const string DEFAULT_SERVER_PASSWORD = "1234";
00054
00055         //Calendar
00056         // \brief Default calendar's filename
00057         public const string DEFAULT_CALENDAR_FILENAME = "calendar.xml";
00058
00059         //Playlist
00060         // \brief Default playlist folder
00061         const string DEFAULT_PLAYLISTS_FOLDER = "playlists/";
00062         // \brief The maximum try generate.
00063         const int MAX_TRY_GENERATE = 10;
00064

```

```

00065         //Transcoder
00066         // \brief Default transcoders folder
00067         const string DEFAULT_TRANSCODERS_FOLDER = "transcoders/";
00068     #endregion
00069
00070     #region Fields
00071     // \brief The webradios list (id,webradio object).
00072     private Dictionary<int, Webradio> _webradios;
00073     // \brief The observers list.
00074     private List<IController> _observers;
00075     // \brief The bdd.
00076     private Bdd _bdd;
00077     // \brief The library.
00078     private List<AudioFile> _library;
00079     // \brief The process watcher.
00080     private System.Windows.Forms.Timer _processWatcher;
00081     // \brief The active transcoders list.
00082     private List<WebradioTranscoder> _activeTranscoders;
00083     // \brief The active servers list.
00084     private List<WebradioServer> _activeServers;
00085     #endregion
00086
00087     #region Properties
00088
00097     public List<WebradioServer> ActiveServers
00098     {
00099         get { return _activeServers; }
00100         set { _activeServers = value; }
00101     }
00102
00111     public List<WebradioTranscoder> ActiveTranscoders
00112     {
00113         get { return _activeTranscoders; }
00114         set { _activeTranscoders = value; }
00115     }
00116
00125     public System.Windows.Forms.Timer ProcessWatcher
00126     {
00127         get { return _processWatcher; }
00128         set { _processWatcher = value; }
00129     }
00130
00139     public Bdd Bdd
00140     {
00141         get { return _bdd; }
00142         set { _bdd = value; }
00143     }
00144
00153     public List<IController> Observers
00154     {
00155         get { return _observers; }
00156         set { _observers = value; }
00157     }
00158
00167     public Dictionary<int, Webradio> Webradios
00168     {
00169         get { return _webradios; }
00170         set { _webradios = value; }
00171     }
00172
00181     public List<AudioFile> Library
00182     {
00183         get { return _library; }
00184         set { _library = value; }
00185     }
00186     #endregion
00187
00188     #region Methods
00189
00199     public WMMModel()
00200     {
00201         this.Webradios = new Dictionary<int, Webradio>();
00202         this.Observers = new List<IController>();
00203         this.Bdd = new Bdd();
00204         this.Library = new List<AudioFile>();
00205         this.ActiveTranscoders = new List<WebradioTranscoder>();
00206         this.ActiveServers = new List<WebradioServer>();
00207         this.ProcessWatcher = new System.Windows.Forms.Timer();
00208         this.ProcessWatcher.Tick += ProcessWatcher_Tick;
00209         this.ProcessWatcher.Interval = 1000;
00210         this.ProcessWatcher.Start();
00211     }
00212
00227     private string GetCurrentTrackFromXML(string xml)
00228     {
00229         if (!string.IsNullOrEmpty(xml))
00230         {

```



```

00231         string currentTrack = "";
00232         XmlDocument document = new XmlDocument();
00233         document.LoadXml(xml);
00234         XmlNodeList nodes = document.GetElementsByTagName("activesource");
00235         foreach (XmlNode node in nodes[0].ChildNodes)
00236         {
00237             if (node.Name == "currenttrack")
00238             {
00239                 currentTrack = node.InnerText;
00240                 break;
00241             }
00242         }
00243         return currentTrack;
00244     }
00245     else
00246         return xml;
00247 }
00248
00262 void ProcessWatcher_Tick(object sender, EventArgs e)
00263 {
00264     bool needUpdate = false;
00265     for (int i = 0; i < this.ActiveTranscoders.Count; i++)
00266     {
00267         if (!this.ActiveTranscoders[i].IsRunning())
00268         {
00269             this.ActiveTranscoders.RemoveAt(i);
00270             needUpdate = true;
00271             i--;
00272         }
00273         else
00274         {
00275             string currentTrack = this.GetCurrentTrackFromXML(this.ActiveTranscoders[i].GetStatus());
00276             if (currentTrack != this.ActiveTranscoders[i].CurrentTrack)
00277             {
00278                 this.ActiveTranscoders[i].CurrentTrack = currentTrack;
00279                 needUpdate = true;
00280                 if (!string.IsNullOrEmpty(currentTrack.Trim()))
00281                     this.Bdd.AddToHistory(this.ActiveTranscoders[i].Id, DateTime.Now, currentTrack);
00282             }
00283         }
00284     }
00285     for (int i = 0; i < this.ActiveServers.Count; i++)
00286     {
00287         if (!this.ActiveServers[i].IsRunning())
00288         {
00289             this.ActiveServers.RemoveAt(i);
00290             needUpdate = true;
00291             i--;
00292         }
00293     }
00294     if (needUpdate)
00295         this.UpdateObservers();
00296 }
00297
00309 public void AddObserver(IController observer)
00310 {
00311     this.Observers.Add(observer);
00312 }
00313
00325 public void RemoveObserver(IController observer)
00326 {
00327     this.Observers.Remove(observer);
00328 }
00329
00343 public int GetSimiliarViewCount(int webradioId)
00344 {
00345     int ret = 0;
00346     foreach (IController controller in this.Observers)
00347     {
00348         if (controller is AdminController)
00349         {
00350             if ((controller as AdminController).View.IdWebradio == webradioId)
00351                 ret++;
00352         }
00353     }
00354     return ret;
00355 }
00356
00368 private void UpdateObservers(int webradioId)
00369 {
00370     foreach (IController controller in this.Observers)
00371     {
00372         if (controller is AdminController)
00373         {
00374             if ((controller as AdminController).View.IdWebradio == webradioId)

```

```

00375         controller.UpdateView();
00376     }
00377 }
00378 }
00379
00389 private void UpdateObservers()
00390 {
00391     foreach (IController controller in this.Observers)
00392     {
00393         controller.UpdateView();
00394     }
00395 }
00396
00406 public void LoadLibrary()
00407 {
00408     this.Library = this.Bdd.LoadLibrary();
00409 }
00410
00422 public void CheckFolders(int webradioId)
00423 {
00424     if (!Directory.Exists(DEFAULT_WEBRADIOS_FOLDER + this.Webradios[webradioId].Name))
00425         Directory.CreateDirectory(DEFAULT_WEBRADIOS_FOLDER + this.Webradios[webradioId].Name);
00426 }
00427
00437 public void LoadWebradios()
00438 {
00439     if (!Directory.Exists(DEFAULT_WEBRADIOS_FOLDER))
00440         Directory.CreateDirectory(DEFAULT_WEBRADIOS_FOLDER);
00441     if (!Directory.Exists(DEFAULT_SHOUTCAST_FOLDER))
00442         Directory.CreateDirectory(DEFAULT_SHOUTCAST_FOLDER);
00443     this.Webradios = this.Bdd.LoadWebradios();
00444 }
00445
00459 public Webradio GetWebradio(int id)
00460 {
00461     return this.Webradios[id];
00462 }
00463
00477 public Webradio GetWebradioByName(string name)
00478 {
00479     Webradio ret = null;
00480     foreach (KeyValuePair<int, Webradio> webradio in this.Webradios)
00481     {
00482         if (webradio.Value.Name == name)
00483         {
00484             ret = webradio.Value;
00485             break;
00486         }
00487     }
00488     return ret;
00489 }
00490
00502 public List<Webradio> GetWebradios()
00503 {
00504     //Get only webradios with its name and id and without useless stuffs for SelectionView
00505     List<Webradio> list = new List<Webradio>();
00506     foreach (KeyValuePair<int, Webradio> wr in this.Webradios)
00507     {
00508         list.Add(new Webradio(wr.Value.Name, wr.Value.Id));
00509     }
00510     return list;
00511 }
00512
00526 public bool CreateWebradio(string name)
00527 {
00528     if (this.IsValidPath(name))
00529     {
00530         string webradioFilename = DEFAULT_WEBRADIOS_FOLDER + name + "/";
00531         Webradio wr = new Webradio(name);
00532         WebradioServer server = new WebradioServer(DEFAULT_SERVER_PORT,
00533             webradioFilename + DEFAULT_SERVER_FOLDER + DEFAULT_LOGFILENAME,
00534             webradioFilename + DEFAULT_SERVER_FOLDER + DEFAULT_CONFIGFILENAME,
00535             DEFAULT_SERVER_PASSWORD, WebradioServer.DEFAULT_ADMIN_LOGIN, DEFAULT_MAX_LISTENER);
00536         wr.Server = server;
00537         wr.Playlists = new List<Playlist>();
00538         wr.Calendar = new WebradioCalendar(webradioFilename +
00539             DEFAULT_CALENDAR_FILENAME);
00540         wr.Transcoders = new List<WebradioTranscoder>();
00541         try
00542         {
00543             wr.Id = this.Bdd.AddWebradio(wr);
00544             this.Webradios.Add(wr.Id, wr);
00545             //Directory creation
00546             Directory.CreateDirectory(webradioFilename);
00547             Directory.CreateDirectory(webradioFilename + DEFAULT_SERVER_FOLDER);
00548             Directory.CreateDirectory(webradioFilename + DEFAULT_PLAYLISTS_FOLDER);
00549             Directory.CreateDirectory(webradioFilename + DEFAULT_TRANSCODERS_FOLDER);

```

```

00548         Thread.Sleep(100);
00549         wr.GenerateConfigFiles();
00550     }
00551     catch
00552     {
00553         return false;
00554     }
00555     return true;
00556 }
00557 else
00558     return false;
00559 }
00560
00574 public bool DeleteWebradio(int id)
00575 {
00576     bool output = false;
00577     output = this.Bdd.DeleteWebradio(id);
00578     Directory.Delete(DEFAULT_WEBRADIOS_FOLDER + this.Webradios[id].Name, true);
00579     //Delete webradio from model
00580     try
00581     {
00582         for (int i = 0; i < this.Observers.Count; i++)
00583         {
00584             AdminController ac = null;
00585             if (this.Observers[i] is AdminController)
00586             {
00587                 ac = this.Observers[i] as AdminController;
00588                 if (ac.View.IdWebradio == id)
00589                 {
00590                     ac.View.Close();
00591                     this.RemoveObserver(ac);
00592                     i--;
00593                 }
00594             }
00595         }
00596         this.Webradios.Remove(id);
00597         output = true;
00598     }
00599     catch
00600     {
00601         output = false;
00602     }
00603
00604     return output;
00605 }
00606
00621 private Playlist GetPlaylistByName(string name, int webradioId)
00622 {
00623     Playlist playlist = null;
00624     foreach (Playlist p in this.Webradios[webradioId].Playlists)
00625     {
00626         if (p.Name == name)
00627         {
00628             playlist = p;
00629             break;
00630         }
00631     }
00632     return playlist;
00633 }
00634
00648 public bool DuplicateWebradio(int id)
00649 {
00650     Webradio webradio = this.Webradios[id];
00651     string name = "Copy of " + webradio.Name;
00652     if (this.IsValidPath(name))
00653     {
00654         try
00655         {
00656             this.CreateWebradio(name);
00657             Webradio newWebradio = this.GetWebradioByName(name);
00658             //SERVER CONFIGURATION - Put server config to the clone
00659             this.UpdateServer(true, webradio.Server.Port, webradio.Server.Password,
webradio.Server.AdminPassword, webradio.Server.MaxListener, newWebradio.Id);
00660             //PLAYLIST CONFIGURATION
00661             foreach (Playlist playlist in webradio.Playlists)
00662             {
00663                 Playlist newPlaylist;
00664                 if (this.CreatePlaylist(playlist.Name, newWebradio.Name,
newWebradio.Id, playlist.Type, out newPlaylist))
00665                 {
00666                     newPlaylist.AudioFileList = new List<string>(playlist.AudioFileList);
00667                 }
00668             }
00669             //CALENDAR CONFIGURATION
00670             foreach (CalendarEvent ev in webradio.Calendar.
Events)
00671             {

```

```

00672         Playlist newPlaylistEvent = this.GetPlaylistByName(ev.Playlist.Name,
newWebradio.Id);
00673         if (newPlaylistEvent != null)
00674         {
00675             CalendarEvent newEvent = new
CalendarEvent(ev.Name, ev.StartTime, ev.Duration, ev.
Repeat, ev.Priority, ev.Shuffle, ev.Loopatend, newPlaylistEvent);
00676             this.CreateEvent(newEvent, newWebradio.Id);
00677         }
00678     }
00679     //TRANSCODER CONFIGURATION
00680     foreach (WebradioTranscoder transcoder in webradio.
Transcoders)
00681     {
00682         this.CreateTranscoder(transcoder.Name,
transcoder.StreamType, transcoder.SampleRate, transcoder.Birate, transcoder.Url,
transcoder.Ip, transcoder.Port, transcoder.AdminPort, transcoder.Password, newWebradio.Id);
00683     }
00684     this.UpdateObservers();
00685     return true;
00686 }
00687 catch
00688 {
00689     return false;
00690 }
00691 }
00692 else
00693     return false;
00694 }
00695 }
00696
00708 public List<AudioFile> GetLibrary()
00709 {
00710     return this.Library;
00711 }
00712
00724 public List<string> GetGenders()
00725 {
00726     return this.Bdd.GetGenders();
00727 }
00728
00743 public bool ImportFilesToLibrary(string[] filenames,
AudioType type)
00744 {
00745     AudioFile file;
00746     bool state = true;
00747     foreach (string filename in filenames)
00748     {
00749         try
00750         {
00751             TagLib.File tagFile = TagLib.File.Create(filename);
00752             if (type == AudioType.Music)
00753                 file = new Music(filename,
tagFile.Tag.Title,
tagFile.Tag.FirstPerformer,
tagFile.Tag.Album,
(int)tagFile.Tag.Year,
tagFile.Tag.Copyright,
tagFile.Properties.Duration,
tagFile.Tag.FirstGenre);
00754             else
00755                 file = new Ad(filename,
tagFile.Tag.Title,
tagFile.Tag.FirstPerformer,
tagFile.Tag.Album,
(int)tagFile.Tag.Year,
tagFile.Tag.Copyright,
tagFile.Properties.Duration,
tagFile.Tag.FirstGenre);
00756
00757             int id = this.Bdd.AddAudioFile(file);
00758             if (id != Bdd.ERROR)
00759             {
00760                 file.Id = id;
00761                 this.Library.Add(file);
00762                 this.UpdateObservers();
00763             }
00764             state = true;
00765         }
00766         catch
00767         {
00768             }
00769     }
00770     return state;
00771 }
00772
00787

```

```

00802     public bool DeleteAudioFile(int id, string audioFilename)
00803     {
00804         foreach (KeyValuePair<int, Webradio> webradio in this.Webradios)
00805         {
00806             foreach (Playlist playlist in webradio.Value.Playlists)
00807             {
00808                 for (int i = 0; i < playlist.AudioFileList.Count; i++)
00809                 {
00810                     if (playlist.AudioFileList[i] == audioFilename)
00811                     {
00812                         playlist.AudioFileList.Remove(playlist.AudioFileList[i]);
00813                         i--;
00814                     }
00815                 }
00816             }
00817         }
00818         foreach (AudioFile file in this.Library)
00819         {
00820             if (file.Id == id)
00821             {
00822                 this.Library.Remove(file);
00823                 break;
00824             }
00825         }
00826         return this.Bdd.DeleteAudioFile(id);
00827     }
00828
00843     public bool UpdateAudioFile(AudioFile file)
00844     {
00845         if (this.Bdd.UpdateAudioFile(file))
00846         {
00847             try
00848             {
00849                 TagLib.File tagFile = TagLib.File.Create(file.Filename);
00850                 tagFile.Tag.Title = file.Title;
00851                 tagFile.Tag.Performers = new string[] { file.Artist };
00852                 tagFile.Tag.Album = file.Album;
00853                 tagFile.Tag.Year = (uint)file.Year;
00854                 tagFile.Tag.Copyright = file.Label;
00855                 tagFile.Tag.Genres = new string[] { file.Gender };
00856                 tagFile.Save();
00857
00858                 foreach (AudioFile af in this.Library)
00859                 {
00860                     if (af.Id == file.Id)
00861                     {
00862                         af.Title = file.Title;
00863                         af.Artist = file.Artist;
00864                         af.Album = file.Album;
00865                         af.Year = file.Year;
00866                         af.Label = file.Label;
00867                         af.Gender = file.Gender;
00868                         break;
00869                     }
00870                 }
00871                 this.UpdateObservers();
00872                 return true;
00873             }
00874             catch
00875             {
00876                 return false;
00877             }
00878         }
00879         else
00880             return false;
00881     }
00882
00896     private bool IsValidFilename(string testName)
00897     {
00898         char[] invalidFileChars = Path.GetInvalidFileNameChars();
00899         if (testName.IndexOfAny(invalidFileChars) == -1)
00900             return true;
00901         else
00902             return false;
00903     }
00904
00918     private bool IsValidPath(string testName)
00919     {
00920         char[] invalidFileChars = Path.GetInvalidPathChars();
00921         if (testName.IndexOfAny(invalidFileChars) == -1)
00922             return true;
00923         else
00924             return false;
00925     }
00926
00944     public bool CreatePlaylist(string name, string webradioName, int webradioId,
        AudioType type, out Playlist newPlaylist)

```

```

00945     {
00946         Webradio selectedWebradio = this.Webradios[webradioId];
00947         int id = Bdd.ERROR;
00948         newPlaylist = null;
00949         if (this.IsValidFilename(name))
00950         {
00951             string filename = DEFAULT_WEBRADIOS_FOLDER + webradioName + "/" + DEFAULT_PLAYLISTS_FOLDER
+ name + ".lst";
00952             if (type == AudioType.Music)
00953                 newPlaylist = new PlaylistMusic(name, filename);
00954             else
00955                 newPlaylist = new PlaylistAd(name, filename);
00956             id = this.Bdd.CreatePlaylist(newPlaylist, webradioId);
00957             if (id == Bdd.ERROR)
00958                 return false;
00959             else
00960             {
00961                 try
00962                 {
00963                     newPlaylist.Id = id;
00964                     newPlaylist.GenerateConfigFile();
00965                     selectedWebradio.Playlists.Add(newPlaylist);
00966                     this.UpdateObservers(webradioId);
00967                     return true;
00968                 }
00969                 catch
00970                 {
00971                     return false;
00972                 }
00973             }
00974         }
00975     }
00976     else
00977     {
00978         return false;
00979     }
00980 }
00981
00982
00997 public bool DeletePlaylist(Playlist playlist, int webradioId)
00998 {
00999     if (this.Bdd.DeletePlaylist(playlist.Id))
01000     {
01001         this.Webradios[webradioId].Playlists.Remove(playlist);
01002         System.IO.File.Delete(playlist.Filename);
01003         this.UpdateObservers(webradioId);
01004         return true;
01005     }
01006     else
01007         return false;
01008 }
01009
01010
01025 public bool AddToPlaylist(Playlist playlist, Dictionary<int, string>
audioFiles)
01026 {
01027     bool state = true;
01028     foreach (KeyValuePair<int, string> audioFile in audioFiles)
01029     {
01030         if (this.Bdd.AddToPlaylist(audioFile.Key, playlist.
Id))
01031         {
01032             playlist.AudioFileList.Add(audioFile.Value);
01033             state = true;
01034         }
01035         else
01036         {
01037             state = false;
01038             break;
01039         }
01040     }
01041     playlist.GenerateConfigFile();
01042     return state;
01043 }
01044
01045
01061 public bool RemoveFromPlaylist(Dictionary<int, string> audioFiles,
Playlist playlist)
01062 {
01063     bool state = true;
01064     foreach (KeyValuePair<int, string> audioFile in audioFiles)
01065     {
01066         if (this.Bdd.RemoveFromPlaylist(audioFile.Key, playlist.
Id))
01067         {
01068             playlist.AudioFileList.Remove(audioFile.Value);

```

```

01069         state = true;
01070     }
01071     else
01072     {
01073         state = false;
01074         break;
01075     }
01076 }
01077 }
01078 playlist.GenerateConfigFile();
01079 return state;
01080 }
01081
01095 public List<AudioFile> GetPlaylistContent(Playlist playlist)
01096 {
01097     List<AudioFile> audioFiles = new List<AudioFile>();
01098     foreach (string filename in playlist.AudioFileList)
01099     {
01100         foreach (AudioFile af in this.Library)
01101         {
01102             if (af.FileName == filename)
01103                 audioFiles.Add(af);
01104         }
01105     }
01106     return audioFiles;
01107 }
01108
01127 public bool GeneratePlaylist(string name, TimeSpan duration,
01128                             AudioType type, string gender, int webradioId, string webradioName)
01129 {
01130     Playlist newPlaylist;
01131     string filename = DEFAULT_WEBRADIOS_FOLDER + webradioName + "/" + DEFAULT_PLAYLISTS_FOLDER +
01132     name + ".lst";
01133     if (type == AudioType.Music)
01134         newPlaylist = new PlaylistMusic(name, filename);
01135     else
01136         newPlaylist = new PlaylistAd(name, filename);
01137     TimeSpan tmpDuration = new TimeSpan();
01138     Random random = new Random();
01139     AudioFile audioFile;
01140     int retries = 0;
01141     List<int> audioFilesId = new List<int>();
01142     while (tmpDuration <= duration)
01143     {
01144         audioFile = this.Library[random.Next(0, this.Library.Count - 1)];
01145         if (audioFile.Type == type)
01146         {
01147             if (retries > MAX_TRY_GENERATE)
01148                 break;
01149             if ((tmpDuration + audioFile.Duration) > duration)
01150             {
01151                 retries++;
01152                 continue;
01153             }
01154             else
01155                 retries = 0;
01156             if ((audioFile.Type == AudioType.Ad) || (audioFile.Type == AudioType.Music
01157             && audioFile.Gender == gender))
01158             {
01159                 tmpDuration += audioFile.Duration;
01160                 newPlaylist.AudioFileList.Add(audioFile.FileName);
01161                 audioFilesId.Add(audioFile.Id);
01162             }
01163         }
01164     }
01165     //Impossible to create a playlist
01166     if (newPlaylist.AudioFileList.Count == 0)
01167         return false;
01168     //Add to database
01169     int idPlaylist = this.Bdd.AddGeneratedPlaylist(newPlaylist, audioFilesId, webradioId);
01170     if (idPlaylist == Bdd.ERROR)
01171         return false;
01172     newPlaylist.Id = idPlaylist;
01173     //Add to model
01174     this.Webradios[webradioId].Playlists.Add(newPlaylist);
01175     newPlaylist.GenerateConfigFile();
01176     this.UpdateObservers(webradioId);
01177     return true;
01178 }
01179
01194 public bool CreateEvent(CalendarEvent newEvent, int webradioId)
01195 {
01196     if (this.Bdd.EventExist(newEvent, this.Webradios[webradioId].Calendar.
    Id))

```

```

01197         return false;
01198
01199         int id = this.Bdd.AddEvent(newEvent, this.Webradios[webradioId].Calendar.Id,
newEvent.Playlist.Id);
01200         newEvent.Id = id;
01201         this.Webradios[webradioId].Calendar.Events.Add(newEvent);
01202         this.Webradios[webradioId].Calendar.GenerateConfigFile();
01203         this.UpdateObservers(webradioId);
01204         return true;
01205     }
01206
01221     public bool UpdateEvent(CalendarEvent aEvent, int webradioId)
01222     {
01223         if (this.Bdd.UpdateEvent(aEvent))
01224         {
01225             foreach (CalendarEvent ce in this.Webradios[webradioId].Calendar.Events)
01226             {
01227                 CalendarEvent tmp = ce;
01228                 if (ce.Id == aEvent.Id)
01229                 {
01230                     tmp.StartTime = aEvent.StartTime;
01231                     tmp.Duration = aEvent.Duration;
01232                     break;
01233                 }
01234             }
01235             this.Webradios[webradioId].Calendar.GenerateConfigFile();
01236             this.UpdateObservers(webradioId);
01237             return true;
01238         }
01239         else
01240             return false;
01241     }
01242
01257     public bool DeleteEvent(CalendarEvent aEvent, int webradioId)
01258     {
01259         if (this.Bdd.DeleteEvent(aEvent))
01260         {
01261             this.Webradios[webradioId].Calendar.Events.Remove(aEvent);
01262             this.Webradios[webradioId].Calendar.GenerateConfigFile();
01263             this.UpdateObservers(webradioId);
01264             return true;
01265         }
01266         else
01267             return false;
01268     }
01269
01292     public bool CreateTranscoder(string name, StreamType st, int sampleRate,
int bitrate, string url, IPAddress ip, int port, int adminport, string password, int webradioId)
01293     {
01294         string filename = DEFAULT_WEBRADIOS_FOLDER + this.Webradios[webradioId].Name + "/" +
DEFAULT_TRANSCODERS_FOLDER;
01295         WebradioTranscoder transcoder;
01296         if (st == StreamType.AACPlus)
01297             transcoder = new TranscoderAacPlus(name,
01298                 bitrate,
01299                 sampleRate,
01300                 ip,
01301                 port,
01302                 adminport,
01303                 url,
01304                 password,
01305                 filename,
01306                 filename);
01307         else
01308             transcoder = new TranscoderMp3(name,
01309                 bitrate,
01310                 sampleRate,
01311                 ip,
01312                 port,
01313                 adminport,
01314                 url,
01315                 password,
01316                 filename,
01317                 filename);
01318
01319         transcoder.CalendarFile = DEFAULT_WEBRADIOS_FOLDER + this.Webradios[webradioId].Name + "/" +
DEFAULT_CALENDAR_FILENAME;
01320         int id = this.Bdd.AddTranscoder(transcoder, webradioId);
01321         if (id == Bdd.ERROR)
01322             return false;
01323         transcoder.Id = id;
01324         transcoder.ConfigFilename = filename + id.ToString() + ".config";
01325         transcoder.LogFilename = filename + id.ToString() + ".log";
01326         this.Webradios[webradioId].Transcoders.Add(transcoder);
01327         transcoder.GenerateConfigFile(this.Webradios[webradioId].Playlists);
01328         this.Webradios[webradioId].GenerateConfigFiles();
01329         this.UpdateObservers();

```



```

01330         return true;
01331     }
01332
01347     public bool DeleteTranscoder(WebradioTranscoder transcoder, int
webradioId)
01348     {
01349         if (transcoder.IsRunning())
01350             transcoder.Stop();
01351
01352         if (this.Bdd.DeleteTranscoder(transcoder.Id))
01353         {
01354             System.IO.File.Delete(transcoder.ConfigFilename);
01355             if (System.IO.File.Exists(transcoder.LogFilename))
01356                 System.IO.File.Delete(transcoder.LogFilename);
01357             this.Webradios[webradioId].Transcoders.Remove(transcoder);
01358             this.UpdateObservers(webradioId);
01359             return true;
01360         }
01361         else
01362             return false;
01363     }
01364
01380     public bool UpdateTranscoder(WebradioTranscoder transcoder, bool
debug, int webradioId)
01381     {
01382         try
01383         {
01384             bool wasRunning = false;
01385             if (transcoder.IsRunning())
01386             {
01387                 wasRunning = true;
01388                 transcoder.Process.Kill();
01389             }
01390
01391             this.Bdd.UpdateTranscoder(transcoder);
01392             transcoder.GenerateConfigFile(this.Webradios[webradioId].Playlists);
01393             if (wasRunning)
01394                 transcoder.Start(debug);
01395             this.UpdateObservers(webradioId);
01396             return true;
01397         }
01398         catch
01399         {
01400             return false;
01401         }
01402     }
01403
01419     public bool StartTranscoder(WebradioTranscoder transcoder, bool
debug, int webradioId)
01420     {
01421         try
01422         {
01423             if (transcoder.Start(debug))
01424             {
01425                 this.ActiveTranscoders.Add(transcoder);
01426                 UpdateObservers(webradioId);
01427                 return true;
01428             }
01429             else
01430                 return false;
01431         }
01432         catch
01433         {
01434             return false;
01435         }
01436     }
01437
01438
01439
01454     public bool StopTranscoder(WebradioTranscoder transcoder, int
webradioId)
01455     {
01456         try
01457         {
01458             if (transcoder.Stop())
01459             {
01460                 this.ActiveTranscoders.Remove(transcoder);
01461                 this.Webradios[webradioId].Calendar.GenerateConfigFile();
01462                 this.UpdateObservers(webradioId);
01463                 return true;
01464             }
01465             else
01466                 return false;
01467         }
01468         catch
01469         {
01470             return false;

```

```

01471     }
01472 }
01473
01487 public bool StopAllProcess(int webradioId)
01488 {
01489     try
01490     {
01491         foreach (WebradioTranscoder transcoder in this.Webradios[webradioId].
Transcoders)
01492         {
01493             transcoder.Stop();
01494         }
01495         this.Webradios[webradioId].Server.Stop();
01496         return true;
01497     }
01498     catch
01499     {
01500         return false;
01501     }
01502 }
01503
01515 public bool StopAllProcess()
01516 {
01517     try
01518     {
01519         foreach (KeyValuePair<int, Webradio> webradio in this.Webradios)
01520         {
01521             foreach (WebradioTranscoder transcoder in webradio.Value.Transcoders)
01522             {
01523                 transcoder.Stop();
01524             }
01525             webradio.Value.Server.Stop();
01526         }
01527         return true;
01528     }
01529     catch
01530     {
01531         return false;
01532     }
01533 }
01534
01546 public void GenerateConfigFiles(int webradioId)
01547 {
01548     this.Webradios[webradioId].GenerateConfigFiles();
01549 }
01550
01569 public bool UpdateServer(bool debug, int port, string password, string adminPassword,
int maxListener, int webradioId)
01570 {
01571     try
01572     {
01573         WebradioServer server = this.Webradios[webradioId].Server;
01574         bool wasRunning = false;
01575         if (server.IsRunning())
01576         {
01577             wasRunning = true;
01578             server.Process.Kill();
01579         }
01580
01581         if (!this.Bdd.UpdateServer(port, password, adminPassword, maxListener,
webradioId))
01582             return false;
01583
01584         server.AdminPassword = adminPassword;
01585         server.Password = password;
01586         server.Port = port;
01587         server.MaxListener = maxListener;
01588         server.GenerateConfigFile();
01589         if (wasRunning)
01590             server.Start(debug);
01591
01592         this.UpdateObservers(webradioId);
01593         return true;
01594     }
01595     catch
01596     {
01597         return false;
01598     }
01599 }
01600
01601 }
01602
01617 public bool StartServer(int webradioId, bool debug)
01618 {
01619     if (this.Webradios[webradioId].Server.Start(debug))
01620     {
01621         this.ActiveServers.Add(this.Webradios[webradioId].Server);

```

```

01622         this.UpdateObservers(webradioId);
01623         return true;
01624     }
01625     else
01626         return false;
01627 }
01628
01642 public bool StopServer(int webradioId)
01643 {
01644     if (this.Webradios[webradioId].Server.Stop())
01645     {
01646         this.ActiveServers.Remove(this.Webradios[webradioId].Server);
01647         this.UpdateObservers(webradioId);
01648         return true;
01649     }
01650     else
01651         return false;
01652 }
01653
01665 public void ShowServerWebInterface(int webradioId)
01666 {
01667     Process.Start(this.Webradios[webradioId].Server.WebInterfaceUrl);
01668 }
01669
01681 public void ShowServerWebAdmin(int webradioId)
01682 {
01683     Process.Start(this.Webradios[webradioId].Server.WebAdminUrl);
01684 }
01685
01699 public bool TranscoderNextTrack(WebradioTranscoder transcoder)
01700 {
01701     try
01702     {
01703         transcoder.NextTrack();
01704         return true;
01705     }
01706     catch
01707     {
01708         return false;
01709     }
01710 }
01711
01725 public bool ClearHistory(int transcoderId)
01726 {
01727     return this.Bdd.ClearHistory(transcoderId);
01728 }
01729
01746 public bool GenerateHistory(int webradioId, string transcoderName, int transcoderId,
string outputFilename)
01747 {
01748     Document document = new Document(PageSize.A4);
01749     PdfWriter.GetInstance(document, new FileStream(outputFilename, FileMode.Create));
01750     document.Open();
01751     iTextSharp.text.Font fontTitle = FontFactory.GetFont(FontFactory.HELVETICA, 20,
iTextSharp.text.Font.NORMAL);
01752     iTextSharp.text.Font fontText = FontFactory.GetFont(FontFactory.HELVETICA, 12,
iTextSharp.text.Font.NORMAL);
01753     iTextSharp.text.Font fontTextError = FontFactory.GetFont(FontFactory.HELVETICA, 12,
BaseColor.RED);
01754     document.Add(new Paragraph(new Chunk("Webradio's name : " + this.Webradios[webradioId].Name,
fontTitle)));
01755     document.Add(new Paragraph(new Chunk("Transcoder's name : " + transcoderName + "\n\n",
fontTitle)));
01756     foreach (KeyValuePair<string, string> filename in this.Bdd.
GetHistory(transcoderId))
01757     {
01758         string line = "";
01759         AudioFile file = this.GetAudioFileByFilename(filename.Value);
01760         if (file != null)
01761         {
01762             line += "Title : " + file.Title + "\n";
01763             line += "Artist : " + file.Artist + "\n";
01764             line += "Album : " + file.Album + "\n";
01765             line += "Date : " + filename.Key + "\n\n";
01766             document.Add(new Paragraph(new Chunk(line, fontText)));
01767         }
01768         else
01769         {
01770             document.Add(new Paragraph(new Chunk("File not found", fontTextError)));
01771         }
01772     }
01773     document.Close();
01774     return true;
01775 }
01776
01791 public AudioFile GetAudioFileByFilename(string filename)

```

```

01792     {
01793         AudioFile result = null;
01794         foreach (AudioFile file in this.Library)
01795         {
01796             if (file.Filename == filename)
01797             {
01798                 result = file;
01799                 break;
01800             }
01801         }
01802         return result;
01803     }
01804
01819     public bool ModifyWebradioName(string newName, int webradioId)
01820     {
01821         Webradio selectedWebradio = this.Webradios[webradioId];
01822         this.StopAllProcess(webradioId);
01823         string oldName = selectedWebradio.Name;
01824         if (this.Bdd.ModifyWebradioName(newName, webradioId) &&
this.Bdd.UpdateFileNames(selectedWebradio.Name, newName, selectedWebradio))
01825         {
01826             foreach (WebradioTranscoder transcoder in selectedWebradio.
Transcoders)
01827             {
01828                 transcoder.ConfigFilename = transcoder.ConfigFilename.Replace(oldName, newName);
01829                 transcoder.LogFilename = transcoder.LogFilename.Replace(oldName, newName);
01830             }
01831             selectedWebradio.Server.ConfigFilename = selectedWebradio.Server.ConfigFilename.Replace(
oldName, newName);
01832             selectedWebradio.Server.LogFilename = selectedWebradio.Server.LogFilename.Replace(oldName,
newName);
01833             foreach (Playlist playlist in selectedWebradio.Playlists)
01834             {
01835                 playlist.Filename = playlist.Filename.Replace(oldName, newName);
01836             }
01837             selectedWebradio.Calendar.Filename = selectedWebradio.Calendar.Filename.Replace(oldName,
newName);
01838
01839             Directory.Move(DEFAULT_WEBRADIOS_FOLDER + this.Webradios[webradioId].Name,
DEFAULT_WEBRADIOS_FOLDER + newName);
01840             selectedWebradio.Name = newName;
01841             selectedWebradio.GenerateConfigFiles();
01842             this.UpdateObservers(webradioId);
01843             return true;
01844         }
01845         else
01846             return false;
01847     }
01848
01866     public bool TranscoderCapture(bool active, string device,
WebradioTranscoder transcoder, int webradioId)
01867     {
01868         try
01869         {
01870             transcoder.SetCaptureMode(active, device);
01871             this.UpdateObservers(webradioId);
01872             return true;
01873         }
01874         catch
01875         {
01876             return false;
01877         }
01878     }
01893     public List<WebradioListener> UpdateServerListeners(int webradioId)
01894     {
01895         return this.Webradios[webradioId].Server.GetListeners();
01896     }
01911     public bool UpdateServerStats(int webradioId)
01912     {
01913         WebradioServer server = this.Webradios[webradioId].Server;
01914         server.UpdateStats();
01915         this.UpdateObservers(webradioId);
01916         return true;
01917     }
01930     public bool CheckLibrary()
01931     {
01932         try
01933         {
01934             for (int i = 0; i < this.Library.Count; i++)
01935             {
01936                 AudioFile file = this.Library[i];
01937                 if (!System.IO.File.Exists(file.Filename))
01938             {

```

```
01939             this.Bdd.DeleteAudioFile(file.Id);
01940             this.Library.Remove(file);
01941             i--;
01942         }
01943     }
01944     this.UpdateObservers();
01945     return true;
01946 }
01947 catch
01948 {
01949     return false;
01950 }
01951 }
01952 #endregion
01953
01954 }
01955 }
```

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