Inmedafit v.1.3.

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Inmedafit application is the software client that allows users to obtain the detailed information about the network and local media resources, process the Rhythmbox audio player's database, create and manipulate by playlists.

Inmedafit is the GUI-based application software that implements the following functions:

- Reading, parsing and displaying the playlists which were stored in the standard pls-format, m3u-format and the Rhythmbox audio player's database.

- The manual entering and placing of the individual source items (Media Resource Locators, MRLs) to the working list.

- Detecting, processing and showing the actual detailed information (album, genre, title etc) about the stated network and local media resources (Internet radio, audio files etc).

- Editing the content of the working list and its individual data cells (with possibility of copying of the present data to the Clipboard and using by external software immediately).

- Searching and selection of the items, which were stated at the working list, according to the entered necessary keywords.

- Synchronization of the obtained information about media resources with the Rhythmbox audio player's database (with possibility to add the necessary items or to replace the content completely).

- Writing the processed playlists in the standard pls- and m3u-formats (for future utilizing by the wide-used media players like VLC, Movie Player, Windows Media Player etc at various operating systems).

References.

- Qt v.4.8.0 (is available under the Lesser General Public License, LGPL), Copyright (C) Nokia Corporation, <u>http://qt.nokia.com</u>;

- Icon set (freeware), Copyright (C) Aha-Soft, <u>http://www.aha-soft.com</u> .

Platform.

Inmedafit application was created with using of C++ for the Unix-like operating systems. There is executable code for Ubuntu Linux. Also, Inmedafit can be compiled for other *nix operating systems - according to availability of Qt software for the appropriate platforms (<u>http://qt.nokia.com/products/platform</u>).

License Agreement.

This software is designed for personal and commercial using. By purchasing Inmedafit software, the purchaser agrees to the terms of this agreement, as detailed below.

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Installation and Uninstallation.

Debian package for work under Ubuntu Linux should be unpacked from Inmedafit-1.3.deb.tar.gz archive. Then, Package Installer can place (after the mouse's click on Inmedafit-1.3.deb at the file manager) the appropriate files (Inmedafit.*) to /usr/bin and the necessary libraries (libQt*) to /usr/lib directory. Application will be started by /usr/bin/Inmedafit executable module. Removing of package can be done by execution in terminal: dpkg -r Inmedafit .

	Inmedafit		
purce Playlist : //tmp/Divinity_Experimental.m3u			✓ Brow
dividual Item :			bA
Media Resource Locator (MRL)	Album	Genre	Title
http://wknc.sma.ncsu.edu:8000/wkncmq.ogg.m3u	WKNC 88.1 FM Raleigh, NC	College Radio	College Radio
http://wknc.sma.ncsu.edu:8000/wknchq.ogg.m3u	WKNC 88.1 FM Raleigh, NC	College Radio	College Radio
http://network.absoluteradio.co.uk/core/audio/ogg/live.pls?service=a8	Absolute 80s	80s	Labour Of Love
http://network.absoluteradio.co.uk/core/audio/ogg/live.pls?service=a8bb	Absolute 80s	80s	Labour Of Love
http://media-ice.musicradio.com/ChoiceFMMP3.m3u	Choice FM	Dance and RnB	Dance and RnB
http://live2.infonetmedia.si:8000/Radio1_Dance.m3u	Radio1 Dance	Just the best dance music	Just the best dance music
http://network.absoluteradio.co.uk/core/audio/ogg/live.pls?service=vcbb	Absolute Classic Rock	Rock	Always
http://network.absoluteradio.co.uk/core/audio/ogg/live.pls?service=vc	Absolute Classic Rock	Rock	Always
http://myradio.com.ua/alias/Hits90s128.m3u	myRadio.ua :)	Misc	Spinning The Wheel (1996) [Хиты 90-х]
0 http://myradio.com.ua/alias/Disco128.m3u	myRadio.ua :)	Misc	A Walk In The Park [Disco 80-x]
1 http://myradio.com.ua/alias/Old128.m3u	myRadio.ua :)	Misc	Covenant Woman [Best of OLD]
2 http://myradio.com.ua/alias/Electro-House128.m3u	myRadio.ua :)	Misc	One More Time (The House Moguls) [Electro
3 http://myradio.com.ua/alias/rock-n-roll128.m3u	myRadio.ua :)	Misc	Promised Land [Rock-n-Roll]
4 http://myradio.com.ua/alias/trance128.m3u	myRadio.ua :)	Misc	Ayla 2010 (Jerome Isma-Ae V2.0 rmx) [Tranc
5 http://myradio.com.ua/alias/DrumAndBass128.m3u	myRadio.ua :)	Misc	Mother [Drum And Bass]
6 http://myradio.com.ua/alias/kino128.m3u	myRadio.ua :)	Misc	Песенка об Арбате [Музыка Кино]
7 http://myradio.com.ua/alias/dance128.m3u	myRadio.ua :)	Misc	Far From In Love [Dance Club]
8 http://myradio.com.ua/alias/RnB128.m3u	myRadio.ua :)	Misc	Jai Ho! (& Pussycat Dolls & N. Scherzinger) [F
9 http://myradio.com.ua/alias/Classica128.m3u	myRadio.ua :)	Misc	Slavonic Dance [Классическая музыка]
0 http://myradio.com.ua/alias/sheshory128.m3u	myRadio.ua :)	Misc	Греческая народная [Этно]
1 http://myradio.com.ua/alias/PopRock128.m3u	myRadio.ua :)	Misc	Східна [Український Рок]
2 http://myradio.com.ua/alias/Ballads128.m3u	myRadio.ua :)	Misc	S.O.S. [Ballads]
3 http://myradio.com.ua/alias/pophit128.m3u	myRadio.ua :)	Misc	Stronger [Поп-Хит]
4 http://94.23.13.108:9000/listen.pls	METRO FM	YABANCI POP	YABANCI POP
5 http://network.absoluteradio.co.uk/core/audio/ogg/live.pls?service=a9	Absolute Radio 90s	90s	The Day We Caught The Train
6 http://ubuntu.hbr1.com:19800/ambient.ogg	HBR1.com - Dream Factory	Ambient, Chillout, Downbeat, Trance	ugeti-192k
7 http://89.238.166.195:9162/listen.pls	Ministry of Sound Radio	Electronic Dance House Trance Garage Techno Prog	
8 http://eteris.startfm.lt/startfm.ogg	Start FM - 94.2MHz, Vilnius [VUR-SFM][ogg vorbis 64]		Nagai
9 http://stream.funradio.sk:8000/dance128.mp3.m3u	FUN Radio Dance	Dance	Dance
0 http://128.208.34.80:8002/	KUOW High Bandwidth	Talk	Talk
1 http://www.kwur.com/icecast/kwurogg.m3u	KWUR 90.3 FM 128kbit GPL Ogg		Streaming Data
2 http://125.214.65.31:80/kissfm.aac	Kiss FM - Melbourne Australia	House	House
2 http://123.214.05.31.00/K33111.000	The FleeFM Deveneert New Zeeland	Variabi	Variah
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	Play-count Last-played Bitrate Media-type	Commer	it
Mark All UnMark All			
About		🥏 Synchronize 🤤	Write 🔀 Remove 🕒 Clear 🛟 D

Fig.1. Screenshot of the main window of the Inmedafit v.1.3 application.

Using.

Inmedafit application has a standard intuitive interface. Work with this software can be started as by the mouse's click on appropriate executable module at the file manager, as by the manual entering of the full name of this program from the command line.

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After starting of the main panel of application, user has the possibility to load the content of the source playlists from pls- and m3u-files or from the Rhythmbox audio player's database (xml-file). This action can be done by clicking on "Browse..." button, then, the standard dialog of the file selection will be started. The working list will be extended by the actually absent items each time after accepting of a file by clicking on "Open" button. List of all accepted source playlists will be stored at the appropriate combobox.

The individual item will be added (if it is absent actually) to the working list after an entering of the MRL (full path to the local file or the network resource) at the appropriate text field and, then, by clicking on "Add" button or pressing "Enter" button on keyboard.

Detecting, processing and showing the actual detailed information (album, genre, title etc) about the stated MRLs will be started by clicking on "Data" button (or via "Alt+D" keyboard shortcut). Obtained information can be edited by user at any cells of all columns of the working list excepting the column for MRL.

Double clicking on any cell of the working list places the content of this cell to the Clipboard. Copied at such way data can be used by the external software immediately.

The whole working list will be cleared after clicking on "Clear" button (or via "Alt+C" keyboard shortcut).

The elements of the "Selection" groupbox are purposed for the facilitation of the process of items' selection at the working list. The "Mark All" and "UnMark All" buttons can be used, accordingly, for selection and clearing of selection of all items at the working list. Using the checkboxes, entering the keywords at the necessary fields, and, then, clicking on "Mark" button, user can search and select the individual necessary items at the working list.

The separated rows can be removed from the working list by selecting of the unnecessary ones and clicking on "Remove" button (or via "Alt+R" keyboard shortcut).

Writing the processed playlists (or entered individual items) can be done after selection of the necessary items at the working list and clicking on "Write..." button (or via "Alt+W" keyboard shortcut). Then the standard dialog of the file writing will be started. User can select pls- or m3u-formats for outgoing destination playlist.

Synchronization of the obtained information about media resources with the Rhythmbox audio player's database can be done by user after selection of the necessary items at the working list and clicking on "Synchronize..." button (or via "Alt+S" keyboard shortcut). Then, user should accept the selection of the necessary file of the Rhythmbox database (this file is individual for each login and is placed at <username>/.local/share/rhythmbox/rhythmdb.xml) with help of the standard dialog of the file selection. Further, the "Synchronization with Rhythmbox" dialog panel will appear and user will be able to add the selected items to the destination database (by clicking on "Add" button) or rewrite it completely (by clicking on "Replace" button). The necessary help information is accessible from "About Inmedafit" panel which can be started after clicking on "About..." button (or via "Alt+A" keyboard shortcut).

Development.

The actual information concerning Inmedafit application can be found in Internet at <u>http://shvachko.net/my3w/vsh_wares_eng.html#Inmedafit</u>.

Inmedafit application was created with using of Phonon multimedia API (it is the standard abstraction for handling multimedia streams) provided by Qt. Naturally, this application will be developed together with noted API.

Inmedafit software is not designed to have every features which are inherent for the media players. But this software proposes the effective and simple way to perform the package obtaining of the information about media resources (especially, concerning Internet radio stations) and to formulate data for the future using by the external media software.

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trgang Gartner - The	Grev Agend by http://www.kissim.com.autroi	n <i>Kiss FM - Melbourne Australia</i> (Kiss FM - Melbourne Australia)	by http://www.kissfm.com.au from Kiss FM Welbourne Australia (Kiss FM - Melbourne
ary 🖂	Search:	E	Australia)
Play Queue	Genre	4 Title	✓ Genre
Music	All 341 genres (1363)	KaerntenLive dein Radio	Pop
Podcasts	00s (1)	KALX Radio 90.7FM (128k stereo)	College Radio
Last.fm	60s 70s 80s 90s POP ROCK ESPNOL ESPANA	Kanal 4 Sportsko Radio	Random
Libre.fm	60s 70s 80s 90s POP ROCK OLD GOLD (1)	Kanal K - Shoutcast Streaming Technology by www.init7.net	Alternative
Radio	70s Pop Rock Funk Decades (1)	Kanal Ratte 104,5 MHz	Various
lists 🗆	an (n)	Kántrýbær	country
My Top Rated	80s 90s 00s and TODAY (1)	KASMIR radio	Various
	80s 90s Decades (1)	Katolickie Radio Ciechanow	Pop
Recently Added	80s,90s,2000s (1)	KAUNO FONAS :: 105,4 FM	Pop / Rock / Dance
Recently Played	80s Pop Rock (20)	KBOO.FM - High MP3	Various
	80s Pop Rock Funk Decades (4)	KCFR - In Depth News	News
	90s (3)	KCRW ECLECTIC24: All Music Stream	Alternative, Eclectic, College, World, Ethnic, Dance, Trance, House
	90s 00s (1)	KCRW Simulcast	Eclectic, Alternative, NPR, Public, News
	90 s Pop Rock Dance Electronic (3)	KEIZERSTAD 80s - NO ADS NO TALK - FEEL THE MUSIC!	Unknown
	AAA (1)	Kernews	Unknown
	AACplus (1)	KFM	Various
	AC (5)	KFM Radio	Various
	Adult Contemporany (1)	KICKRADIO, 80_s and 90_s Hits	80s 90s Decades
	Adult Contemporary (2)	Kiss FM	All
	All (1)	Kiss FM - Melbourne Australia	House
	ALL (1)	KissFM Romania - www.kissfm.ro	Тор 40
	Alternative (15)	Klara continuo kwaliteit *	Classics
	alternative (3)	Klara kwaliteit *	Classics
Alternative, Eck Alternative Indi Alternative Mai Alternative Roc Am (1) Ambient (2) Ambient, Chillo A nap 24 órájáb Arabic (1) Arvorig FM (1) BG POP (1)	Alternative, Eclectic, College, World, Ethnic,	KLASICHESKITE HITOVE - RADIO1	Pop Music
	Alternative, Eclectic, Pop, Rock, AAA, Mixed	Klasika	Unknown
	Alternative Indie Rock (2)	KOMILFOO FM	POP - ROCK - TOP 40
	Alternative Mainstream (1)	Koroški radio Slovenj Gradec	mixed
	Alternative Rock (1)	KPTV - rock station	Romania/Rock/
	AM (1)	kritifm 87,5 athens	paradosiaka
	Ambient (2)	Krone Hit	Рор
	Ambient, Chillout, Downbeat, Trance (1)	Krone Hit Dance	Dance
	A nap 24 órájában (1)	Kronehit Fresh	Various
		Kronehit House	House
		KTFM GENEVA vos annees KT	Pop
		KUAT Classical from Tucson, AZ	Classical
	Biesiada, Polskie, Polska, Folk (1)	KUHF Classical	Classical
		KUHF News	News/Talk
		KUOW High Bandwidth	Talk
		KUPS Tacoma 90.1FM The Sound	College

Fig.2. Screenshot of the Rhythmbox v.2.90.1 application during playing of the Internet radio (database for it was created by the Inmedafit v.1.3 application directly).

Actual playlist of the known Internet radio stations which are located worldwide (http://shvachko.net/my3w/files/depository/mysoftware/internet_radio_stations.m3u) includes more than 1300 items and it increases permanently. These items have more than 300 formulations of the accessible genres which can be selected and organized to groups by user.