

aTunes

A semestral work for A4M35OSP

Radovan Murin

17.5.2012

Table of contents

- 1 Recap
 - aTunes?
 - My work
- 2 Work done
 - Buxfix
 - Betatester
 - Enhancement
- 3 Lessons learnt

Recapitulation

Let's recapitulate what was said earlier.

Atunes is an open source alternative to iTunes/Windows Media Player.

Features of aTunes.

- Auto lyrics fetcher
- Auto cover fetcher
- Music organised into a library

From a technical and project standpoint

- Written in Java
- Uses Maven for libraries
- Actively developed, commits are done almost daily

What I wanted to do

- Verify and possibly fix ID: 3478913 : Picture of the song is fixed
- Testing new releases and reporting bugs
- Find some enhancement and implement it

Verify and possibly fix ID: 3478913

Instaled both stable and beta.

- Windows - bug not reproduced
- Ubuntu - bug not reproduced
- Fedora - bug not reproduced

Asked bug record creator on his system details to find and reproduce the bug, but he did not respond. Bug assumed invalid.

Testing new releases and reporting bugs

Installed the beta version. Did not actively use the application. No bugs found

Enhancement - a telnet interface

The feature enables the user to connect to the app via telnet, and remotely control what is played and browse the repository.

- Listens on port 7777
- Uses a system that has been there previously, just not very functional
- Sample commands: play, next, previous, list songs, song info jump to....
- Implementation not trivial, had to refactor a few classes

Enhancement - a telnet interface

Status of patch: As of 15.5.2012, the patch has been accepted, tested and merged to the project repo.

The patch can be found at

<http://sourceforge.net/tracker/?func=detailaid=3522596group;d=161929atid=821814>

Enhancement - a telnet interface

The screenshot shows the iTunes 2.2.0 BETA application interface. The main window displays a library of songs and a playlist. A terminal window titled 'virtual@virtual-VirtualBox: -' is overlaid on the right side, showing a telnet interface for controlling the iTunes player.

Library View:

Tr...	Title	Artist	Album
1	Closer To The Edge	30 Seconds To Mars	Need For Speed ...
3	In and out of my life	ATFC Presidents ...	100 Hits 90's Danc...
15	I know where it's at	All Saints	100 Hits 90's Danc...
8	Lady marmalade	All Saints	100 Hits 90's Danc...
19	1 st man in space	All Seing I	100 Hits 90's Danc...
17	The beat goes on	All Seing I	100 Hits 90's Danc...
19	Walk like a panther	All Seing I feat. To...	100 Hits 90's Danc...
9	2 times	Ann Lee	100 Hits 90's Danc...
2	You don't know me	Armand Van Helde...	100 Hits 90's Danc...
1	Flowerz.	Armand Van Helde...	100 Hits 90's Danc...
8	Waterfall.	Atlantic Ocean	100 Hits 90's Danc...
13	Body in motion	Atlantic ocean	100 Hits 90's Danc...
13	Flaming June.	BT	100 Hits 90's Danc...
10	Blue skies	BT Feat. Tori Amos	100 Hits 90's Danc...
7	Let me be yo' fant...	Baby D	100 Hits 90's Danc...

Terminal Window Output:

```

virtual@virtual-VirtualBox: -
File Edit View Search Terminal Help
iTunes terminal line interface. This interface provides you with control of your
player over a network.
Each command has the format of command:"command name [params]", without "".
Commands available are:
play           Starts Playback
pause          Pauses playback.
stop           Stops playback, same as 'pause'.
showOSD       Pops out a window with the current name of the song.
fullscreen     Switches the player to fullscreen mode.
volUp          Increases the volume by 5 percent.
volDown       Decrements the volume by 5 percent.
volume [number] Sets the volume to the level specified and outputs
                the current volume.
goto [number]  Skips the playback to the percentage chosen.
add SONGNAME  Appends SONGNAME to the end of the playlist.
song [fileName] Prints out current song information, or the song
                information of the specified fileName.
next           Plays the next song in the playlist.
previous      Plays the previous song in the playlist.
random [on/off] Toggles random playlist on/off.
repeat [on/off] Toggles looping of a song on/off.
list           Prints out a list of all song files.

Oh, what a world that we both come in
I said hold it to the rock and let it in
Oh, what a world that we both come in
  
```

Enhancement - a telnet interface

The screenshot shows the iTunes 2.2.0 BETA interface with a playlist titled "Playlist 1" containing 18 songs. A terminal window titled "virtual@virtual-VirtualBox: ~" is overlaid on the right side, displaying a list of commands for controlling the player. The terminal output shows the current song "Move Away" by The Killers.

Tr.	Title	Artist	Album
1	Close To The Edge	30 Seconds To Mars	Need For Speed...
3	In and out of my life	ATFC Presidents ...	100 Hits 90's Danc...
15	I know where it's at	All Saints	100 Hits 90's Danc...
8	Lady marmalade	All Saints	100 Hits 90's Danc...
19	1 st man in space	All Seeing I	100 Hits 90's Danc...
17	The beat goes on	All Seeing I	100 Hits 90's Danc...
19	Walk like a panther	All Seeing I Feat. To...	100 Hits 90's Danc...
9	2 times	Ann Lee	100 Hits 90's Danc...
2	You don't know me	Armand Van Helde...	100 Hits 90's Danc...
1	Flowerz	Armand Van Helde...	100 Hits 90's Danc...
8	Waterfall	Atlantic Ocean	100 Hits 90's Danc...
13	Body in motion	Atlantic ocean	100 Hits 90's Danc...
13	Flaming June	BT	100 Hits 90's Danc...
10	Blue skies	BT Feat. Tori Amos	100 Hits 90's Danc...
7	Let me be your fant...	Baby D	100 Hits 90's Danc...

```

virtual@virtual-VirtualBox: ~
File Edit View Search Terminal Help
Each command has the format of command:"command name [params]", without "".
commands available are:
play                               Starts playback.
pause                               Pauses playback.
stop                               Stops playback, same as 'pause'.
showOSD                             Pops out a window with the current name of the s
fullscreen                          Switches the player to fullscreen mode.
volUP                               Increments the volume by 5 percent.
volDOWN                             Decrements the volume by 5 percent.
volume [number]                    Sets the volume to the level specified and outpu
ts the current volume.
goto [number]                       Skips the playback to the percentage chosen.
add SONGNAME                        Appends SONGNAME to the end of the playlist.
song [filename]                     Prints out current song information, or the song
information of the specified filename.
next                                 Plays the next song in the playlist.
previous                             Plays the previous song in the playlist.
random [on/off]                     Toggles random playlists on/off.
repeat [on/off]                     Toggles looping of a song on/off
list                                 Prints out a list of all song files.
command:play

Oh, what a world that we both come in
I said hold it to the rock and let it in
Oh, what a world that we both come in
  
```

Enhancement - a telnet interface

```
virtual@virtual-VirtualBox: ~
File Edit View Search Terminal Help
showOSD Pops out a window with the current name of the song.
fullscreend Switches the player to fullscreen mode.
volUP Increments the volume by 5 percent.
volDown Decrements the volume by 5 percent.
volume [number] Sets the volume to the level specified and outputs the current volume.
goto [number] Skips the playback to the percentage chosen.
add SONGNAME Appends SONGNAME to the end of the playlist.
song [fileName] Prints out current song information, or the song information of the specified filename.
next Plays the next song in the playlist.
previous Plays the previous song in the playlist.
random [on|off] Toggles random playlist on/off.
repeat [on|off] Toggles looping of a song on/off
list Prints out a list of all song files.
command:play
These eyes don't see
Take your skin off when you refer to me
command:song
Name: Move Away
Artist: The Killers
Album: Sawdust
Year: 2007
```

My experience

- Communication with the dev was surprisingly quick.
- Communication with the bug reporter terrible.
- Took me a month to make the patch, after the one month an important part of the code was refactored and rendered my code unusable
- Patch accepted. :)

Thank you

Thanks for listening!