Project Proposal for
KMix-2

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Proposal Title:
Implementing the sound menu for KDE using Media Player Remote Interfacing
Specification(MPRIS).

Motivation for Proposal / Goal:
An Ubuntu like sound menu for KDE-desktop-environment is a need for the hour. The Kmix
project to implement the sound menu is a great idea, but unfortunately it has been
stalled. To complete the implementation of the sound menu through GsoC is my main
motivation.

Implementation Details:
The Kmix-2 sound menu will be implemented in C++ and Qt. The D-bus will be used to
send messages to the music player. Music controls will be implemented using MPRIS and
messages will be sent to the correspoing music player which implements the
mediaplayer2 interface and upon these message the callbacks to the functions will be
made to control the music player. Also, It would be great if there is a search feature in the
music menu to search the music library and add the songs to Now Playing/Playlist. The
current project tries to implement the search feature in the music menu.

Tentative Timeline (in weekly intervals until 2 weeks after the end of GsoC):

- Week 1 - Week 3   Implementation of the Play, Pause, Next and Previous .
    - Week 1: Getting up acquainted with the code, understanding the design and
      features of the Kmix2 and fixing bugs.
    - Week 2 : Implementing the controls.
    - Week 3 : Fixing bugs and cleaning code.
- Week 4 - Week 7   Implementation of Artwork and Volume controls of the player in
  the menu.
    - Week 4 - Week 5: Implementation of the Artwork in the menu

- ○ Week 6: Fixing bugs and code cleanup.
  - ○ Week 7: Implementing Volume controls and Equalizer presets in the menu.
- Week 8 – Week 10: Implementation of the Playlist view and Now playing.
- Week 10 : Fixing bugs and code cleanup.
- Week 11 : Implementaion of search for searching the music library and adding the music items to the Playlist/Now Playing.
- Week 12 : Fixing bugs and code cleanup.

Do you have other obligations from late May to early August (school, work, vacation, etc.)? Please note that we expect the Summer of Code to be a full-time, 40-hr a week occupation. It is important to be clear and upfront about other commitments that you may have during that time.

I will be having no committments during the specified period. I will be able to code full time, i.e. the expected 40hr/Week.

About Me (let us know who you are!):

Having worked on diverse platforms, I can say that I am a quick learner. Although I am a begginer in contributing to the open source world, as a user, I have been using open source products since past 8 years.

The following are the links to the projects I've worked on.

Project Share:
It is a gnutella like peer-to- peer filesharing client(for the local networks) written in ruby with Qt as its front-end. The project includes implementation of different protocols for peer discovery and routing.
https://github.com/sumansai14/project_share-1

SlashmPlayer(not yet complete)
Slashmplayer is a media player for ubuntu that uses webkit and Pyhton-Gtk. This is implemented using quickly framework for Ubuntu.
https://github.com/sumansai14/SlashmPlayer

Gnome-music:
This is my first contribution made to the foss community.
Link to the bug i fixed in Gnome-Music.

https://bugzilla.gnome.org/show_bug.cgi?id=699169