HQmpd – Project Planning

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Goals

The project is divided into several sub-goals as follows below; the subgoals are merged into the complete planning independently of each other. We have decided on the following sub-goals;

Simple server (15 how The player should support the complete mpd protocol, and have s port for multiple clients at once.	ars) sup-
Codec (Total: 220 how A decoder for mp3 and/or ogg and/or flac is to be implemented. 7 code should be written for readability and not for speed.	ars) The
Output (20-40 how Be able to write uncompressed music to the soundcard in Hash for example using OpenAL.	urs) xell,
ID3 (10 hor Correct understanding and parsing of id3 tags.	urs)
Decode (75 hot Decode the format(s) into uncompressed format in Haskell.	urs)
Control (20 how Forward/backward search in the file.	urs)
Optimize (75 how Make the codec run in real-time or faster.	urs)
Queue (20 how Extend the mpd protocol to include a queue command, and implem this command in the software.	urs) 1ent

Simple Client Build a simple client resembling mpc, but with sup command.	(Total: 25 hours) port for the queue
Client API Write a Haskell client API for the MPD protoco support.	(15 hours) ol, including queue
Client Binary The actual program that talks to the server.	(10 hours)
Configuration File The file should contain directives to set various serv	(Total: 50 hours) rer settings.
.conf Like rc.conf or similar, familiar from most GN	(10 hours) U/Linux systems.
Haskell Haskell configuration file like in XMonad and recompilation using the dyre library.	(20 hours) Yi, with dynamic
Library To make it easier for the user to write own ext	(20 hours) ensions.
Report writing	(70 hours)
Total	400 hours

Time plan

Week	Start	End
36	Introduction, Simple Server	
37	Report, Output	Simple Server
38	ID3, Queue, .conf	ID3
39		Queue,Output
40	Decode	Client API
41		
42	Optimization	Client Binary
43	Control	.conf
44	HaskellConf	Decode
45	Catchup	Report rev 1
46	Catchup	HaskellConf
47	Library,	Control
48	Client API, Client Binary	
49		Library, Report rev 2
50		Client Binary, Client API
51		Optimization, final Report

The project spans over a total of 16 weeks; 36-51. Below follows a table of when things should be started, and when they should be done.