Notes on Deliverables

October 16, 2024 10:30 PM

1. Comment the given Windows Andio code, and provide analysis for each parameter & Junction wrapper.

2. Windows program to record a seconds of and is from the microphone, and another
Its play it back.
Les Mono Sound, at beast 8bit samples @ 8kHz;
Les Adjustable parameters, greation mark.

3. Simple menn to call:

La Record functions,

La Playland functions,

La Quere functions.

4. Project Mangaret
. States Report
. Schedule.

5. Diagnostic Document La Testing scenerios U La Parameter list.

Menn Functions

, Record

. Save

Menus

Thursday, October 17, 2024 10:19 PM

CMS Menus
Menus:
(the menu it is linked to after an action is selected)
1) Main Menu
- Record (Menu 2) - Exit (Menu 0)
2) During Recording
- Recording now (Menu 3) Can modify the length time of the recording
3) Post Recording Menu
Instead of "Playing recording from buffer" and "Would you like to save your audio recording? (y/n):
 Save Recording (Menu 5) Playback (Menu 4) Rerecord (goes back to the main menu to record) (Menu 2) Delete Recording (Menu 6) Exit (Menu 10)
4) Playback Menu "Playing"
(Menu 3)
5) Save Recording Menu
"Recording # saved successfully"
Record (Menu 2) Playback (Menu 4)

6) Delete Recording Menu "Recording Deleted" Main Menu (Menu 1) Exit (Menu 0) 0) Exit Menu "Exiting program..." 10) Error Menu "ERROR"

Wane HDR

- . Structure defines the harder used to identify a waveform-and is buffer. · Contains. La Pointer to waveform buffer. La Length of buffer. Ls # of bytes recorded. (When used as input buffer only). la pointer to user data. La Flags - Bituise OR of Bor more flags (defined in the table at the link). Ly # of fives to play the loop. (When used as an ortput laffer only). La pointer to next (neserved) (resured (resured).
- -> Use WHDR_BEGINLOOP + WHDR-ENDLOOP to specify the beginning + anding blocks of data for looping Lo To loop I block, specify the same block for both floys.

Wave FORMATEX

- · This structure defines the forward of woneform-andio lata. La Universal famot both only. Include this struct inside of another Struct to define additional formatting for a ware form-andio lata type (first member of the struct, then other info after).
- -s Farments with more from 2 channels or samples of more than 16 bits are described with WAVEFORMATEXTENSIBLE, which éncludes la WAVEFORMAT structure.

· Contains:

La Wareform-andio formut type.

Las Number of daniels. Lo Sample Rate in Hz. (common values: 8h, 11.025k, 22.05k, or 44.1k).

Lo Data Transfer Rate in bytes per second. (nBPS = (sample rate) (Block alignment).

la Block Alignment in logtes. (BA = (nChannels)(bits per sample)

La Black Alignment in logtes. (BA = (nChannels)(bits per sample)

Software unst process or multiple of nBA bytes of data at a time.

La Data read/write must start at the beginning of a block/sample.

Bit Depth. (Bbit or 16bit) (container size, not necesserily sumple size).

La Some compression can't define a value for bitdopth, so it can also be B.

Size of Extres. -> IGNORE for our purposes, since we are using WAVE_FORMAT_PCM.

Wave Out Open

https://learn.microsoft.com/en-us/windows/win32/api/mmeapi/nf-mmeapi-waveoutopen

. Opens the given waveform-audio