



CSCI 3280 Tutorial 2



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Main Topic

1, Introduction

2, Mini-Project in details

3, Hints

Introduction



- ➊ Demonstration + Report (hardcopy)
- ➋ Any language (e.g. C++/C, C#, Java...)





Assessment:

- Basic requirements: 35%
- Enhanced features: 25%
- Originality: 30%
- Demonstration and report: 10%

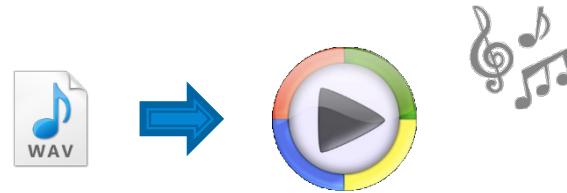


- **Audio Playback System ?**





- Audio Play



Introduction

● Video Player ?

<http://www.youtube.com/watch?v=rPw1dCwDZU0>



Introduction

➊ Lyrics display

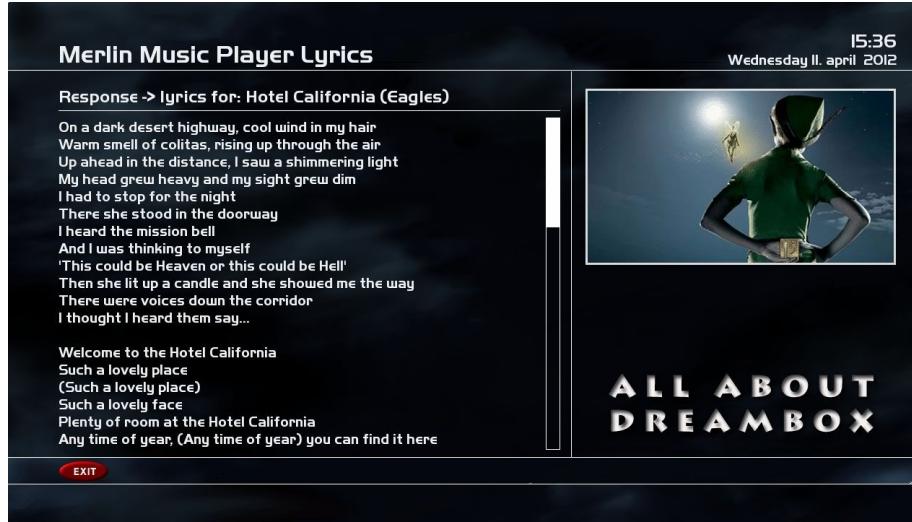
Merlin Music Player Lyrics

Response -> lyrics for: Hotel California (Eagles)

On a dark desert highway, cool wind in my hair
Warm smell of colitas, rising up through the air
Up ahead in the distance, I saw a shimmering light
My head grew heavy and my sight grew dim
I had to stop for the night
There she stood in the doorway
I heard the mission bell
And I was thinking to myself
'This could be Heaven or this could be Hell'
Then she lit up a candle and she showed me the way
There were voices down the corridor
I thought I heard them say...

Welcome to the Hotel California
Such a lovely place
(Such a lovely place)
Such a lovely face
Plenty of room at the Hotel California
Any time of year, (Any time of year) you can find it here

15:36
Wednesday 11. April 2012



ALL ABOUT
DREAMBOX



- Audio Playback system



Mini-project in details

1, User Interface

- Play button
- Stop button
- List control
- Add/remove information
- Lyrics display



| Album | Artist | # | Title | Length |
|-------|--|---|-------------|--------|
| | Ke\$ha Other 2010 | 2 | Tik Tok | 3:19 |
| | Mr. Scruff Ninja Tuna Mr. Scruff Electronic 2008 | 1 | Kalimba | 5:48 |
| | 2011 Acht Spuren Various Unknown Genre Unknown Year | | Acht Spuren | 6:11 |





2, Music management

- Management of music files  My Music
- Files Detection
- Database to store music information



3, Music information display

- Music title
- Singer
- Album
- Display them in your GUI



4, Multi-Keyword Searching

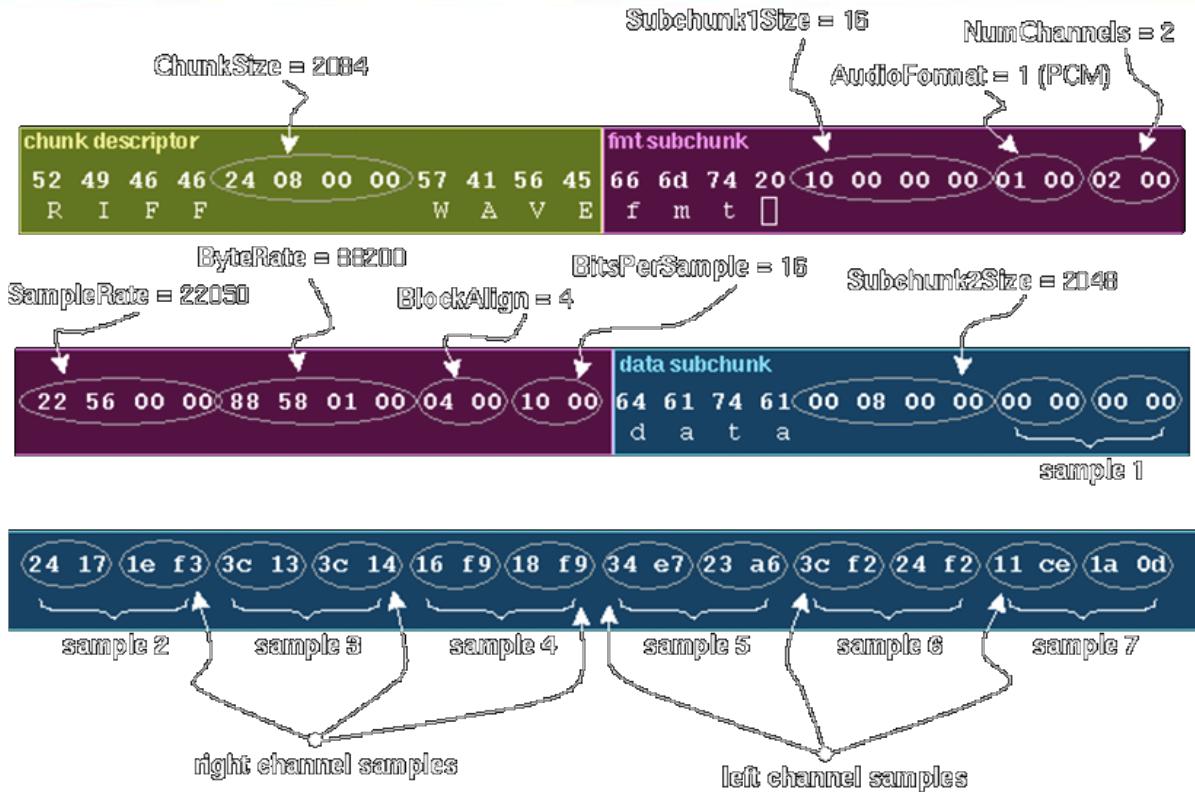
- Using the information in database
- Search the audio file
- Multi-keyword
- Result displayed in the list control



- 5, Music Playback
- Very easy
 - Playsound("C:\\a.wav",~~SND_FILENAME~~_ASYNC /
SND_FILENAME);
 - Finish?
- You need to understand the Wav format



Mini-Project in details





How to read them?

API is provided

Next Tutorial about Mini-Project



6, Lyrics display

- Read the lyrics from the txt file
- Display it in the UI



7, Suggested Enhanced Features

- Support other audio format; this can be based on a third-party library.
- Video playing
- Dynamical effects
- Visualization
- Any other creative ideas to enhance the system



- 1~2 pages's report
- write down
 - team number
 - team member's name
 - team member's student ID
 - workload division
 - program's operation manual
 - third-party library
 - enhanced features



- Demonstrate
 - every basic requirement
 - every enhanced features
- 10-mins Demonstration
- 2-mins Q&A

Mini-project in details

- All members must attend
- any machines
- well prepared
- setup your environment
- download the necessary resources
- prepare your own audio files
- get back your submitted CD-R.
- copy your program to the demonstrate machine
- Demo starts when you run your program.



- ❶ Demonstrate all of your program features.
- ❷ Don't close/restart your program without permission.
- ❸ Unstable performance may lead to mark deduction.



- Develop a user friendly UI
- Balanced workload
- Well prepare for the demonstration



Thank You

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