

# OSP seminar project

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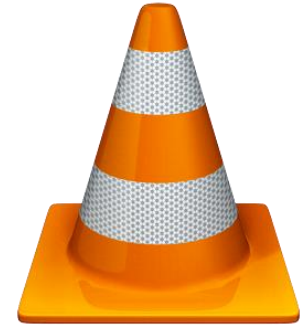
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# Goals

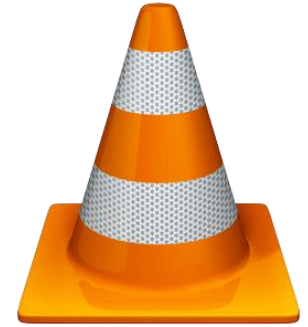
- Chosen project was VLC
- Goal was to do one of following improvements
  - Improving WMC remote control support
  - Adding MP3 chapters support

# Assignment details (VLC)



- Improving WMC remote support
  - There was nothing to improve
- Adding MP3 chapters support
  - New file metadata information was required to store information about file chapters starting times
  - Modification of reading of ID3v2 tags was required, so chapter information could be stored in file metadata
  - Modification of existing GUI was required, so chapters would be visible to user (Playback – Chapters)

# Results (VLC)



- Locally added string into file metadata for storing information about file chapters start
- VLC uses open-source library taglib for reading tags in audio files
  - Taglib currently isn't capable of reading chapter information from ID3v2 tags
  - Chapter information could be manually read, or chapter information support could be added into taglib
- Existing GUI was not modified

# Assignment details (taglib)



- Adding ID3v2 chapter support into taglib
  - New classes for CHAP and CTOC frames representation were required to represent corresponding ID3v2 frames
  - These classes had to be added into existing FrameFactory class
  - Corresponding unit tests were required
  - Modification of existing CMake files was required

# Results (taglib)



- Created required classes
- Added these classes into existing FrameFactory classes
- Created new unit tests for verification of CHAP and CTOC frames reading
- Added header and source files of new classes into existing CMake files
- This patch was submitted by pull request mechanism on GitHub
  - Patch will be reviewed by end of this week

# Personal experience

## VLC

- Mailing lists, IRC, bugtracker and Wiki
- Patches are submitted by mailing list
- Worse documentation
- Lots of information and guides for new developers
- Larger team of leading developers

## taglib

- Mailing list and bugtracker
- Patches are submitted by pull requests on GitHub
- Better documentation
- Almost no information for new developers
- Smaller team of leading developers