Planning for MSc Thesis (July/August 2012)

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Week 1 – From 10th to 16th of June

* Reading ISO 14496-12 and ISO23000-12
* Familiarisation with standards, and understand the parts that conform the file.
* Compile the decoder and familiarisation with the player.
* Choosing the programming language and platform.

Week 2 – From 17th to 23rd of June

* Beginning the programming: First of all, the IM\_AF Encoder header.
* It defines the structure of the file (boxes). And follows the definitions of the standards.

Week 3 – From 24th to 30th of June

* Beginning with version 1 of the encoder.
* Version 1 consists in:
* Load tracks in file (media data container) with a limit of 10 tracks.
* Write in the file the basic data needed to reproduce the tracks in the player (movie header, track header, media info…).
* The tracks are stored in the file; in version 1 the encoder is not able to store tracks from URL.
* Define group container and preset container.
* Group: The encoder is able to define the number of groups, name of the groups and number of elements for each group. Also specify the activation mode. Limit of 10 groups.
* Preset: Encoder is able to define the number of presets, names and volumes for each preset.

Week 4 – From 1st to 7th of July

* Finish version 1 of the code. Specially the sample table box.
* Create the imaf file and test it with the player.
* It won’t work, so I will use the decoder as help to find errors.
* If I need help, contact with Gyorgy Fazekas.

Week 5 – From 8th to 14th of July

* Evaluate the progress of week 4. Fix the errors that may still be.
* Think of ways to improve the code (future version 2).
* Start planning the index of the thesis, structure, duration and pages.

Week 6 – From 15th to 21st of July

* Still errors in version 1? Visit Gyorgy Fazekas or other for help.
* No errors -> start with version 2 of the code.
* Possible improvements of version 2:
* Add the option to read tracks from URL (locally or internet).
* Add more options in the preset: mixing volumes.
* Introduce Metadata information: Images and lyrics of the song.
* Increase the number of tracks and groups that can support the encoder. Also increase the duration of the tracks (whole track)
* Collect information for the thesis. Conference papers, Internet, books?

Week 7 – From 22nd to 28th of July

* Version 1 must be running at this point.
* Correct errors in version 2. Add more improvements that can appear while programming.
* Start writing the thesis. The structure must be clear.

Week 8 – From 29th to 4th of August

* Define a final version of the code (maybe version 3). Not clear now.
* Correct errors of version 2 and 3.
* Keep writing the thesis.

Week 9 – From 5th to 11th of August

* Finish correcting possible errors of the code.
* Focus on writing the thesis.

Week 10 – From 12th to 18th of August

* The latest version of the code must be finish at this time.
* Finish the thesis, check for mistakes and errors.
* Give the right format to the text.

Week 11 – From 19th to 25th August

* Define structure and format for the paper (AES format template?)
* Write the paper.
* Check every thing is ok!

Week 9 – Monday 27th August

* Final report, code and PowerPoint deadline!!!