



## Group Project:

# “MEAMM - Movie Experience and Metadata Manager”

This document describes the subject and the general time schedule of Damiano Boppart and Erwin Herrsche’s group project in the spring term 2011. Adaptations or changes can be agreed upon by the advisers.

## Subject

There are plenty of movie managers, movie browsers, and video collection managers. Most of them have limited capabilities in linking movie metadata to movie files in that they are not aware of files at all. This is due to the fact that most movie managers do not consider file management to be a use case. They are designed to manage DVDs, or BluRay discs on a shelf. This project aims to provide its users with versatile means of organizing their movie collection, be it physical media, or files.

The project also aims at improving the user experience by addressing the shortcomings seen in the user interfaces of other movie managers. Generally, the interfaces of popular audio players such as gmusicbrowser<sup>1</sup> or Nullsoft’s Winamp<sup>2</sup> are better suited to display results in different categories (such as title, release date or involved people), for instance, by having more than one result field. Moreover, the mentioned audio players have implemented easy ways of refining a search. Therefore, MEAMM’s user interface should bring these advantages of existing audio players to the domain of movie managers.

## Outline of Work Plan

The following mandatory features are to be implemented:

- *Navigating the collection based on all available metadata.*  
File metadata (e.g. type, size) and movie metadata (e.g. actors, director, genre) are treated equally.
- *Importing or updating metadata from Internet resources.*  
The user is supported in efficiently adding metadata to his movies by semantic web technologies.

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<sup>1</sup><http://gmusicbrowser.org>

<sup>2</sup><http://www.winamp.com>

- *Keeping track of temporarily unavailable files.*  
MEAMM intelligently deals with files on removable storage devices, by not removing seemingly dead file references automatically. Additionally, file metadata will remain available for querying independently of file availability.
- *Exporting a search result, or a selection.*  
The user is able to generate playlists, wishlists as well as to synchronize a set of movies.

If there is enough time, the following optional features can be implemented in a second phase:

- *Auto-detection of movie titles*
- *Simple recommendation system*
- *Possibility to launch an external player from within the GUI*

## **Duties of the Students**

- Regular meetings with the advisers. Ideally, there will be a meeting every week, but the frequency of meetings can be adapted.
- There will be one presentation given by the student in front of the research group at the end of the thesis.
- Finally, the students have to write a report (5–10 pages) that presents the project. This report should also include a critical review of their work.

## **General**

- Independent working is expected.
- A possibility to work in our building (ETZ) is provided. It is also possible to work at home.

## **Contacts/Advisers**

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