

## Study Project (equiv. "Studienarbeit (SA)")



<b>Title</b>	Study Project in Multimedia Database Systems
<b>Subject</b>	Design and implementation of a graphical user tool for a multimedia server
<b>Background</b>	Nowadays, images, music and videos are recorded to a big extend in digital form. The project Multimonster Multimedia Server, which has been finished recently, allows for storing and managing audio and video data. It is extensible architecture exploiting plugin technology. It also provides conversion capabilities and quality adaptation to specific user requirements. The open architecture of Multimonster allows for creating a platform-independent graphical user interface. The specific API has been already proposed. It would allow for: searching, managing, describing, configuring quality (bitrate), specifying format, delivering the media streams (streaming, downloading), storing the media streams (uploading), and administering the Multimonster Media Server.
<b>Task</b>	This study project focuses on the development of a graphical user interface for the multimedia server "Multimonster". The interface should provide support in searching, playing and modifying multimedia data. In addition to this, it should be possible for an administrator to manage server settings within this interface. The main requirements for the interface are platform independence and easy extensibility. For this reason, the Eclipse Framework may be chosen as base platform, which supports modularity and extensibility by its plugin architecture. The written thesis should contain a detailed description of this technology and the concept and realization of the Multimonster-Client. The Eclipse plugin technology should be exploited.
<b>Requirements</b>	good knowledge of English interest in multimedia area, especially in audio-video conversion good knowledge of Java programming language familiarity with Eclipse
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