

Final Project

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SS 2021

Video Content Search Tool

- In Moodle you will find selected videos from the V3C1 dataset
- Analyze these videos by
 - extracting keyframes
 - e.g., by using the shot detection method of Assignment 1
 - performing a semantic concept classifier to every keyframe
 - e.g., by using your script from Assignment 3
 - storing the results in a (MongoDB) database with this data (these are just suggestions):
 - Video: videoid, filepath
 - Keyframe: keyframeid, filepath, videoid
 - Concept: conceptid, name
 - KeyframeConcepts: videoid, keyframeid, conceptid, confidence

Video Content Search Tool

- Create an application that allows to search for keyframes with a specific concept
 - it should provide a text field (or select field) where the user can enter/select one concept
 - furthermore, it should contain a slider/stepper, where the user can set the minimum confidence value of results to be found
 - finally, it has a search button, which should trigger a database query and present matching keyframes, sorted by confidence
- This could be a web-application, or any other desktop app (e.g., a Java or .NET application) would do the job

Final Project Deadline

- Submit your project implementation until **July 16, 2021**
- The submission should include:
 - the implementation of the project with self-explanatory code
 - a short setup manual, describing how to get it up and running (so that I can test it). In case you develop a web-application, you can also provide a URL instead.
- The submission is the basis for grading of the project
 - there is no personal interview, but I may contact you directly (via a video conference) in case I have some questions to your implementation/code.