

CS3810 CLASS PROJECT

PROJECT NAME: MetaDB

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## Introduction

While on Windows it is possible to search for files via their metadata (data about files themselves, e.g. length of a video or pixel resolution of an image file), on Linux desktop currently there's no analogous software. Typically, users employ sophisticated scripting solutions that involve extensive knowledge of traditional Unix/Linux utilities. Some of the existing programs track metadata of specific files via database, for instance Kodi media player tracks length of videos, dropbox client software tracks downloaded files via database. However, there is no specialized software for tracking purpose. Therefore, there is a need simple utility that will allow the users to perform file search with simple queries which include metadata.

With this software, a user could easily and quick search files, pictures, and videos with any metadata on their specific need. For example, if a user wants to search all the pictures that were taken at the same location or taken by the same device, the user will be satisfied with such feature of this upcoming software in this project. This software would provide the user with a very simple and time-saving search system for metadata on Linux. This document proposes creating such software as project.

Since on Linux command-line is generally preferred for troubleshooting and general information gathering due to faster performance and reliability, it naturally makes sense for this project to be developed as a command-line application. However, an optional GUI front-end can be included for users who aren't well familiar with command-line.

Basic features of such software would be:

- ∞ ability to issue text queries that contain simple metadata
- ∞ ability to query metadata information for a filename.
- ∞ ability to display metadata for all files in user's home folder
- ∞ optional GUI front-end

## Document Revision History

Version	Date	Comment
0.1	09/10/2018	Initial draft. Added first paragraph. Outlined basic rationale for the project and what user needs this project can fulfill. Outlined basic set of features in bullet points.
0.2	09/14/2018	Revised first paragraph. Added second paragraph. Outlined team and roles.
0.3	09/17/2018	Adding an example to the first paragraph to further explain the need for software to be developed with this project.  Revised grammar.