

Qontainer Project Report

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Object Oriented Programming course final project.

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1 Introduction

1.1 Compiling instructions

Project compilation requires a different project file (.pro) from the standard one. The right Qontainer.pro file is already given in the folder¹, so the only commands to invoke are

qmake

make

1.2 Development environment

- Operating System: Manjaro Linux (4.14.94)
- C++ compiler: gcc 8.1
- Qt library: 5.11
- Editor: Geany 1.33
- IDE: Qt Creator
- Version control: git
- Repository hosting: <https://gitlab.com>
- Testing: lab OS on VirtualBox

1.3 Abstract

The software represents an archive for video files with a graphical interface to show its content. It guarantees basic functionalities such as video files insertion, removal and search within the personal library, and provides also the persistence of data through save and load functionalities.

¹In case of need, the command to generate the .pro file is: *qmake -project "QT+=widgets" "CONFIG+=c++11"*

2 Hierarchy description

The software's logic is based upon VideoFile abstract class, that is the base class from which other classes inherit general infos and features. Specializations of the VideoFile class are Movie, Anime, TvSerie and Match classes. There is only one level of inheritance as shown on the schema below:

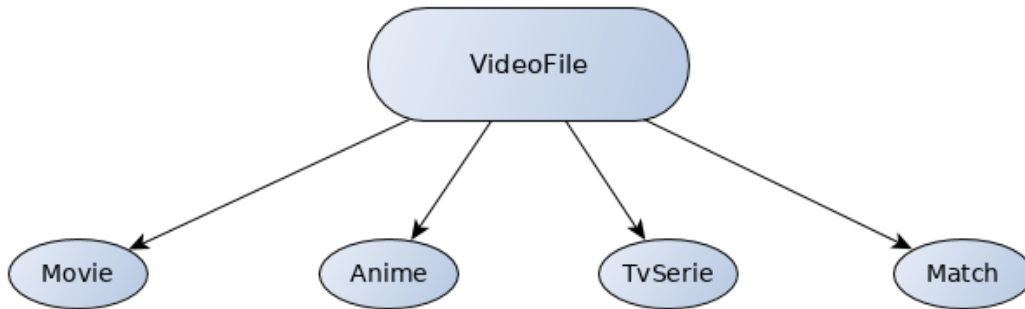


Figura 1: Types hierarchy schema.