

## Slide Show Viewer

The application's architecture is simplified and inspired by the Qt Model-View-Delegate framework. It is comprised of the following C++ classes:

SlideShowViewer, SlideShowView, SlideShowDelegate, SlideShowWorker

SlideShowView holds the GUI's elements.

SlideShowDelegate receives user's commands from SlideShowView and modifies the view.

Through SlideShowWorker, which is instantiated in a separated background thread, allows the loading and mirroring of the images.

SlideShowViewer is only used to instantiate SlideShowDelegate.

Assumptions:

- no application cancels the chosen directory or files in it (no file lock done);

Relevant use cases:

- if the user chooses to stop the slide show and then clicks again "start", the slide show will begin from scratch by scanning the current selected path;
- if the user has stopped the slide show it is still possible to mirror the current displayed image: the image will be loaded again from file system;
- if the loading of an image fails, a message box is shown;
- if the last image in the current chosen directory has been shown, the button in the GUI will be "Start" again;

Possible improvements:

- further loosen the components by implementing a Qt Model-View-Delegate architecture, e.g. by creating a Model class bound to the image displayed on the GUI and by creating new signals and slots in SlideShowView and SlideShowDelegate