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| Practical Task  EHU, Software Testing, Project Requirements |

**Requirements for the Application Under Development**

1. The "File Searcher" application (hereinafter referred to as FS) is designed for the automatic search of files based on a given pattern.
2. The application must be written in Delphi 7 and operate under Win XP and Win 7.
3. For the search, a starting directory or set of directories is specified. FS automatically scans directories to an unlimited depth and displays all found files in the right panel (see screenshot 1).
4. Three types of files are available for search (selection is made manually or using the "What to search" combo box):
   1. Audio files (mp3, ogg, wav, mid).
   2. Video files (avi, mpg, mpeg).
   3. Office files (doc, docx, xls, xlsx).
5. For all found files, the following is displayed:
   1. Name.
   2. Full path.
   3. Size.
   4. File creation date-time.
   5. Screenshot with the first frame.
6. Performance.
   1. FS should search for no less than 500 files per second, provided that the read/write speed to the disk exceeds 50 MB per second.
   2. If the total operation time exceeds 1 hour, the application should not start its work.
7. Language Support.
   1. The application must support Russian and English languages by default.
   2. There should be an option to add new languages.
8. Logging.
   1. FRS must keep a log of its operations.
   2. If the log size exceeds 1 MB, logging stops.
   3. The currently analyzed directory should be displayed in the "Currently Checking" panel at the bottom of the screen.
9. File System Support:
   1. All Windows and UNIX file systems must be supported.
   2. In case an unsupported FS is detected, FS must terminate its operations abruptly.
10. There must be network support.

Screenshot 1.

