

# « File Searcher » Project



Analysis of  
requirements,  
questions to  
the customer

**SAMPLE**

Project Documentation  
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**Background**  
**Purpose**  
**Scope**

**Audience**  
**File**

Full set of requirements specification.  
To organize both development and testing process.  
Business requirements, user requirements, detailed  
specification, limitations.  
Management staff, project team.  
03 06 - Requirements Sample.docx

## 1. Analysis of available data

### **Functional requirements:**

- 1) Search for files by a given pattern.
- 2) Development on Delphi 7 and work under Win XP and Win 7.
- 3) Scanning directories to an unlimited depth of nesting.
- 4) Search for three types of files: audio files, video files, office files.
- 5) support for all Windows and UNIX file systems.
- 6) Network support.

### **Non-functional requirements**

- 1) Search performance of at least 500 files per second with a read / write speed to disk of more than 50 MB per second and a total operation time of no more than 1 hour.
- 2) Displaying the name, full path, size, date-time of creation of the file and a screenshot with the first frame for all found files.
- 3) Logging the application's operation with displaying the current analyzed directory in the "Now being scanned" panel at the bottom of the screen.
- 4) Support for Russian and English by default and the ability to add new languages.
- 5) The application must work under Win XP and Win 7.
- 6) The log size should not exceed 1 MB.
- 7) If an unsupported file system is found, the application should crash.

## 2. Defects in requirements

1. There is no description of the search functionality for the contents of files (violation of the completeness and unambiguity property).
2. The requirements for the required resources (memory, processor, hard disk) are not specified (violation of the property of measurability and limitation).
3. There is no requirement to sort search results (violation of the ordering property).
4. The requirement for the application interface, including the design, is not specified (violation of the property of clarity and unambiguity).
5. There is no requirement to handle errors, for example, if the file is locked or not readable (violation of the correctness property).
6. The requirement for data security is not specified, including protection against unauthorized access and the processing of personal data (violation of the security property).
7. The requirement for application documentation is not specified (violation of the clarity and completeness property).
8. The requirement for testing and debugging the application is not specified (violation of the quality and manageability property).

9. There is no requirement for application performance depending on the size and structure of the file system (violation of the efficiency property).
10. There is no requirement for compatibility with other applications and operating systems (compatibility property violation).

### 3. Questions to the customer

1. What resource requirements (memory, processor, hard drive) must be taken into account for the application to work?
2. What requirements for sorting search results should be taken into account in the application?
3. What requirements for the interface and design of the application should be taken into account?
4. How to handle errors related to file lock or unreadability?
5. What data security requirements should be taken into account in the application?
6. What documentation must be provided for the application?
7. How to ensure application performance depending on the size and structure of the file system?
8. What are the requirements for compatibility with other applications and operating systems?
9. How the application should react when you install it on another operating system
10. What screen orientation does the app support?
11. How the app works may differ when using ssd/hdd?
12. If the calculation turned out to be incorrect and the operation time turned out to be more than an hour, how should the program behave further?
13. When the program crashes, what should the program show and check at the next start?