

| File Catalog Functional Test Plan | by Your Answer | | | |
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| Objectives | Test Case ID | Test Case Description | Test Data | Expected Results |
| Test if source files are returned after searching for file name that exists | TC_SEARCHDISK_001 | Enter existing file name | <i>File name that exists:</i> "Test.c" | Source files with those names are returned |
| Test if source files are returned after searching for file name that doesn't exist | TC_SEARCHDISK_002 | Enter nonexistent file name | <i>File name that doesn't exist:</i> "NonExistent.c" | No source files are returned |
| Test if source files are returned after searching for file type that exists | TC_SEARCHDISK_003 | Enter existing file type | <i>File type that exists:</i> ".c" | All files with the ".c" extension are returned |
| Test if source files are returned after searching for file type that doesn't exist | TC_SEARCHDISK_004 | Enter nonexistent file type | <i>File type that doesn't exist in disk</i> | No source files are returned |
| Test if files with unsupported file types are skipped during file system search | TC_SEARCHDISK_005 | Enter unsupported file type | <i>File type:</i> ".txt" | No source files are returned |
| Test if selected source files are added to catalog sucessfully | TC_ADDTOCATALOG_001 | Select source file and add to catalog | <i>File name:</i> "Test.c" | The source file is added to the catalog with the correct metadata and matches the selection |
| Test if duplicate source file names are handled correctly in the catalog | TC_ADDTOCATALOG_002 | Select source file with duplicate name and add to catalog | <i>File name that has duplicate:</i> "Duplicate.c" | The source file is added to the catalog with the correct metadata and matches only the selection and not its duplicates |
| Test if attached annotations of source files are added to catalog | TC_ADDTOCATALOG_003 | Select source file and add annotations | <i>File name:</i> "Test.c" <i>Annotation:</i> "This is a test program" | The annotation is added to the catalog to the corresponding file |
| Test if empty annotations of source files show up as empty in catalog | TC_ADDTOCATALOG_004 | Select source file and add no annotation | <i>File name:</i> "Test2.c" <i>Annotation:</i> "" | Empty annotation is added to the catalog to the corresponding file |
| Test if annotations for two different files with the same name are handled correctly | TC_ADDTOCATALOG_005 | Select source file with duplicate name and add annotation | <i>File name:</i> "Duplicate.c" <i>Annotation:</i> " This one should have annotation" | The annotation is added to the catalog only to the corresponding file and not its duplicates |
| Test if file can be added to the catalog if it is already there | TC_ADDTOCATALOG_006 | Select source file that is already in the catalog to be added again | <i>File name:</i> "Test.c" | Program displays error |
| Test if binary file can be added to catalog | TC_ADDTOCATALOG_007 | Select source file that has binary data and add to catalog | This one should have annotation <i>File name:</i> "Test.c" that has binary data | Program displays error |
| Test if location attribute of file in catalog is updated after source file is moved to different location | TC_VALIDATION_001 | Move source file to different location and validate | <i>File name:</i> "Test.c" <i>Original location:</i> "C:/TestDirectory" <i>New location:</i> "C:/NewDirectory" | Location attribute to corresponding file must be changed in catalog |
| Test if file is in catalog after source file has been deleted off disk | TC_VALIDATION_002 | Delete file and validate | <i>File name:</i> "Test2.c" | Deleted file should not appear in catalog |
| Test if file name in catalog is updated after name of source file in disk is modified | TC_VALIDATION_003 | Change file name and validate | <i>Old File name:</i> "Test3.c" <i>New File name:</i> "ChangedName.c" | File name to corresponding file must be changed in catalog |
| Test if file is moved to a new location but is not validated | TC_VALIDATION_004 | Move source file to different location but not validate | <i>File name:</i> "Test.c" <i>Original location:</i> "C:/TestDirectory" <i>New location:</i> "C:/NewDirectory" | Program displays error |
| Test if location attribute and file name in catalog is updated if location + name are both modified | TC_VALIDATION_006 | Change file name and move to different location then validate | <i>Old File name:</i> "ChangedName.c" <i>New File name:</i> "Test3.c" <i>Original location:</i> "C:/TestDirectory" <i>New location:</i> "C:/NewDirectory" | Location attribute and file name to corresponding file must be changed in catalog |
| Test if file that has been overwritten is replaced with correct file | TC_VALIDATION_007 | Moe source file to different location that has file with same name and select to overwrite | <i>File name that has duplicate:</i> "Duplicate.c" <i>Original location:</i> "C:/TestDirectory" <i>New location:</i> "C:/NewDirectory" | The original file should not appear in catalog |
| Test if content when changed is reflected on catalog | TC_VALIDATION_008 | Change contents of file and validate | <i>File name:</i> "Test.c" | When viewing contents of file, it should be changed accordingly |
| Test if file can be opened | TC_OPEN_001 | Open a file | <i>File name:</i> "Test.c" | File opens to correct content |
| Test if file that doesn't exist can be opened | TC_OPEN_002 | Open a file that doesn't exist | <i>File name that doesn't exist:</i> "NonExistent.c" | Program displays error |
| Test if catalog files are returned after searching for file name that exists | TC_SEARCHCATALOG_001 | Enter existing file name in catalog | <i>File name:</i> "Test.c" | Source files with those names are returned |
| Test if catalog files are returned after searching for file name that doesn't exist | TC_SEARCHCATALOG_002 | Enter nonexistent file name in catalog | <i>File name:</i> "NonExistent.c" | No source files are returned |
| Test if catalog files are returned after searching for annotation that exists | TC_SEARCHCATALOG_003 | Enter existing annotation in catalog | <i>Annotation:</i> "This is a test program" | Source files with those annotations are returned |
| Test if catalog files are returned after searching for annotation that doesn't exist | TC_SEARCHCATALOG_004 | Enter nonexistent annotation in catalog | <i>Annotation:</i> "Blablabla" | No source files are returned |
| Test if catalog files are returned after searching for file type that exists | TC_SEARCHCATALOG_005 | Enter existing file type in catalog | <i>File type:</i> ".c" | Source files with those file types are returned |
| Test if catalog files are returned after searching for file type that doesn't exist | TC_SEARCHCATALOG_006 | Enter nonexistent file type in catalog | <i>File type that doesn't exist</i> | No source files are returned |
| Test if catalog files are returned after searching for last edited date that exists | TC_SEARCHCATALOG_007 | Enter existing last edited date in catalog | <i>Last edited date that exists</i> | Source files with those last edited dates are returned |
| Test if combined search criteria return accurate results | TC_SEARCHCATALOG_008 | Enter multiple search criteria (e.g., file type and annotation) simultaneously to filter results. | <i>File type</i> ".c", <i>Annotation</i> "Test Program". | Only files matching both criteria should be returned. |
| Test if catalog files are returned after searching for last edited date that doesn't exist | TC_SEARCHCATALOG_009 | Enter nonexistent last edited date in catalog | <i>Last edited date that doesn't exist</i> | No source files are returned |
| Test if edited annotations are updated in catalog | TC_EDITANNOTATION_001 | Select file in catalog and edit its annotations | <i>File name:</i> "Test.c" <i>Annotation:</i> "This is a edited" | Annotations for selected file is shown accordingly to edit |
| Test if edited empty annotations show up as empty in catalog | TC_EDITANNOTATION_002 | Select file in catalog and edit its annotations to empty string | <i>File name:</i> "Test.c" <i>Annotation:</i> "" | Annotations for selected file is empty |
| Test if edited annotations for two different files with the same name are handled correctly | TC_EDITANNOTATION_003 | Select two files in catalog with same name and edit its annotations | <i>First file:</i> "Duplicate.c" <i>Second File:</i> "Duplicate.c" <i>First Annotation:</i> "A" <i>Second Annotation:</i> "B" | Annotations for same file names are shown accordingly to edit |
| Test if file can be moved to new location | TC_MOVEFILE_001 | Select file and move to existing location | <i>File name:</i> "Test.c" <i>Original location:</i> "C:/TestDirectory" <i>New location:</i> "C:/NewDirectory" | Selected file is moved to new location |
| Test if file can be moved to non-existent location | TC_MOVEFILE_002 | Select file and move to non-existent location | <i>File name:</i> "Test.c" <i>Original location:</i> "C:/TestDirectory" <i>New location:</i> "C:/blabla" | Error to display that selected file cannot be moved |
| Test if moving a file with duplicate names can be moved to new location | TC_MOVEFILE_003 | Select file which has duplicate names and move to new location | <i>File name:</i> "Duplicate.c" <i>Original location:</i> "C:/TestDirectory" <i>New location:</i> "C:/NewDirectory" | Only selected file is moved to new location |
| Test if moving a file to a location that already has a file with the same name is handled correctly | TC_MOVEFILE_004 | Select file which has name that is the same as file already in new location | <i>File name:</i> "Duplicate.c" <i>Original location:</i> "C:/TestDirectory" <i>New location:</i> "C:/NewDirectory" | User is prompted to overwrite file, or keep |
| Test if moving a file to a location that already has a file with the same name is overwritten | TC_MOVEFILE_005 | Select file which has name that is the same as file already in new location and select overwrite | <i>File name:</i> "Duplicate.c" <i>Original location:</i> "C:/TestDirectory" <i>New location:</i> "C:/NewDirectory" | File selected overwrites file with same name in new location |
| Test if catalog files are deleted from catalog | TC_DELETEFROMCATALOG_001 | Select file and delete from catalog | <i>File name:</i> "Test.c" | File is deleted from catalog |

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| Test if catalog files with the same name are affected by deletion | TC_DELETEFROMCATALOG_002 | Select file with duplicate names and delete from catalog | File name: "Duplicate.c" | Only selected file is deleted from catalog and not its duplicate with a different extension |
| Test if an existing file can be queried and read from the backend | TC_QUERY_FILE_001 | Query and read the value of an existing file | File name: "test.c" Data: "test{"test"[test],test," | The program should return the contents of the file correctly |
| Test if the program can handle querying a non-existent file | TC_QUERY_FILE_002 | Query and read the value of a non existent file | File name: "NonExistent.c" | The program should return an error |
| Test if directories show source files correctly | TC_SWITCHDIRECTORY_001 | Navigate to a directory and view its content | Directory: "C:/TestDirectory" | The program should return all source files under that directory |
| Test if sub directories of a directory can be read | TC_SWITCHDIRECTORY_002 | Navigate to a directory and navigate to a sub directory | Directory: "C:/TestDirectory" Sub-Directory: "C:/TestSubDirectory" | The program should return all sub directories under that directory, null if there are none |
| Test if program can go back to parent directory of current directory | TC_SWITCHDIRECTORY_003 | Navigate to a directory and navigate to its parent directory | Sub-Directory: "C:/TestSubDirectory" Parent Directory: "C:/TestDirectory" | The program should return parent of that sub directory, null if sub directory doesn't have parent |
| Test if the UI accurately displays search options and processes user input correctly. | TC_UI_001 | Check that the UI displays all available search options and type into a search field | - | UI displays options: Annotation, Date, File Type, File Name. The correct results are displayed in the result table if data matches the catalog entries. |
| Test if the UI displays detailed information about a selected file in the catalog | TC_UI_002 | Select a file under the catalog and check that it displays the correct information | - | A file details panel/window should open. Information like file location, last modification date, and annotations should be accurately displayed. If the file has annotations, they should be visible; otherwise, an empty state should be shown. |
| Test if the UI correctly allows users to add files from disk to the catalog | TC_UI_003 | Select file from left file table and click "add to catalog" button | - | A panel should open showing "annotations" field. The annotations field should be able to be edited A confirmation dialog should pop up indicating the addition was successful. The file metadata should be correctly visible in the catalog. |
| Test if the UI opens up to a program when open file button is clicked | TC_UI_004 | Select file from left file table and click "open file" button | - | System must switch to a new desktop and open the file up in its correct platform |
| Test if open file, add to catalog, move source files buttons are enabled only when the files on the disk are selected | TC_UI_005 | Check that button states are correct when files on left file table is selected | - | Button must be disabled until row on left file table is selected. If rows on both tables are selected, it should also be disabled |
| Test if UI only allows users to add files not directories | TC_UI_006 | Select directory from left file table and click "add to catalog" button | - | Message dialog to display that directories cannot be added |
| Test if UI only allows users to move files not directories | TC_UI_007 | Select directory from left file table and click "move source files" button | - | Message dialog to display that directories cannot be moved |
| Test if UI only allows users to open files not directories | TC_UI_008 | Select directory from left file table and click "open file" button | - | Message dialog to display that directories cannot be opened |
| Test if UI allows files to be moved and shows the correct file path when file and location is selected | TC_UI_009 | Select file from left file table and click "move source files" button | - | A panel must open to display the selected file's path. Another button should say "Choose new directory" and must be disabled until user selects a row from the left file table |
| Test if UI only allows uses to choose new directory not files when moving location | TC_UI_010 | Select file from left file table and click "Choose new directory" button under the move source files panel | - | Message dialog to display that files cannot be choosed as a new location path |
| Test if UI displays correct validation messages | TC_UI_011 | Click the "validate catalog" button | - | A message dialog must show that everything is updated and validated. Otherwise, there should be an error message |
| Test if UI correctly displays current directory | TC_UI_012 | Verify that UI displays the correct current directory | - | The UI should correctly display the current directory's path in the disk |
| Test if when right button is clicked, the UI displays files/sub directories under that directory | TC_UI_013 | Verify that UI displays the correct files/sub directories in the left file table after right button is clicked | - | The UI should correctly display the correct files/sub directories. |
| Test if when left button is clicked, the UI goes back to the parent directory and displays files/sub directories under that directory correctly | TC_UI_014 | Verify that UI displays the correct files/sub directories in the left file table after left button is clicked | - | The UI should correctly display the correct files/sub directories. |
| Test if the UI allows deletion of a file from a catalog | TC_UI_015 | Select a file in catalog and click "Delete from catalog" button | - | When deleted, a confirmation deletion button should pop up to prompt users if they want to delete or not. If the user deletes, the catalog must show this change |
| Test if the UI allows users to view the file's content | TC_UI_016 | Select a file in catalog and click "view contents" button | - | The UI should open up to a new panel showing the file's content. If it can't there should be an error message displaying this. |
| Test if the UI allows users to edit annotations | TC_UI_017 | Select a file in catalog and click "edit annotation" button | - | The annotation field must be enabled when button is clicked and allow the user to edit the field. When user clicks save, it locks the field once again. The catalog must show this change. |