The Comp Virtual File System (CVFS)

<<Interface>> Criterion
+evaluate():bool

0.. contains*

SampleCriterion
- attrName: string
- op: string
- val: string

- evaluate(): bool
+ evaluateString( ): bool
+ evauateInt( ): bool

Composite Criterion
- cri1: criterion
- cri2: criterion
- logicOp: string

+ evaluate: bool
+ toString():

Application
+ commandProcessor: commandprocessor

use

CommandProcessor
- virtualDisk
- criteria
- undoStack
- redostack
- parentDirectory

+ interactWithVirtualDisk( ):
+ executecommands(CLIView)

interacts with

CLIView
+ command: string

+ processCommand(string)
+ getCommandProcessor()

1.. has
*0..**

<<Interface>> Command
+execute()
+undo()

NewDirCommand
- VirtualDisk
- directory

+ execute( )
+ undo( )

NewDocCommand
- VirtualDisk
- document

+ execute( )
+ undo( )

NewSimpleCriCommand
- criteria
- criName
- criterion

+ execute( )
+ undo( )

RenameCommand
- VirtualDisk
- File
- oldFileName
- newFileName

+ execute( )
+ undo( )

DeleteCommand
- VirtualDisk
- File
- Directory

+ execute( )
+ undo( )

NewNegationCommand
- criteria
- criName1
- criName2
- negation

+ execute( )
+ undo( )

ChangeDirCommand
- VirtualDisk
- OldDirectory
- NewDirectory

+ execute( )
+ undo( )

uses   *interacts*

VirtualDisk
- maxSize: int
- rootDirectory: List
- workingDirectory: List

+ getRootDirectory( )
+ getWorkingDirectory( )
+ setWorkingDirectory( )
+ getMaxSize( ): int
+ getUsedSize( ): int
+ hasEnoughSpace(int): bool

manages

Document
- name: string
- type: string
- content: string

+ getName( ): string
+ setName(string)
+ getType( ): string
+ getContent( ): string
+ getSize( ): int

0.. contains*

Directory
+ SIZE: final int
- name: string
- files: List<object>

+ addFile(object)
+ removeFile(object)
+ getDocument(string)
+ getDirectory(string)

*contains 0..**
*1..**