

UserSession

uid : UID  
curr\_fd : Filedescriptor  
groups : Set(GROUPID)

create(n : String) : Boolean  
open(n : String,write : Boolean) : Boolean  
execute(n : String)  
close()  
appendline(line : String)  
readline() : String  
updateline(line : String,no : Integer)  
has\_access(n : String,perm : Permission) : Boolean  
chmod(n : String,world : Set(Permission),group : Set(Permission),owner : Set(Permission))

captures a session of a user.  
(A user may have several sessions, of course) A user object may be generated by the login or a call of a shell (not modeled here).  
  
The operations of user are the only public operations of this package.

File

name : String  
owner : UID  
group : GROUPID  
content : Sequence(String)

HasAccess(uid : UID,groups : Set(GROUPID),p : Permission) : Boolean

Filedescriptor

openForWrite : Boolean  
position : Integer

Appendline(line : String) : Sequence(String)  
Updateline(line : String,no : Integer) : Sequence(String)  
Readline() : String

file  
0.1



Permissions

world : Set(Permission)  
group : Set(Permission)  
owner : Set(Permission)

perm