

Web Interface for Secure Decentralized Collaboration Platform

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Outline

Introduction

Architecture

The tools used

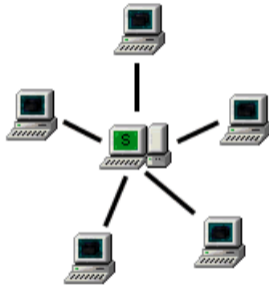
Issues

Rights

File System

Future Work

Server Based Network



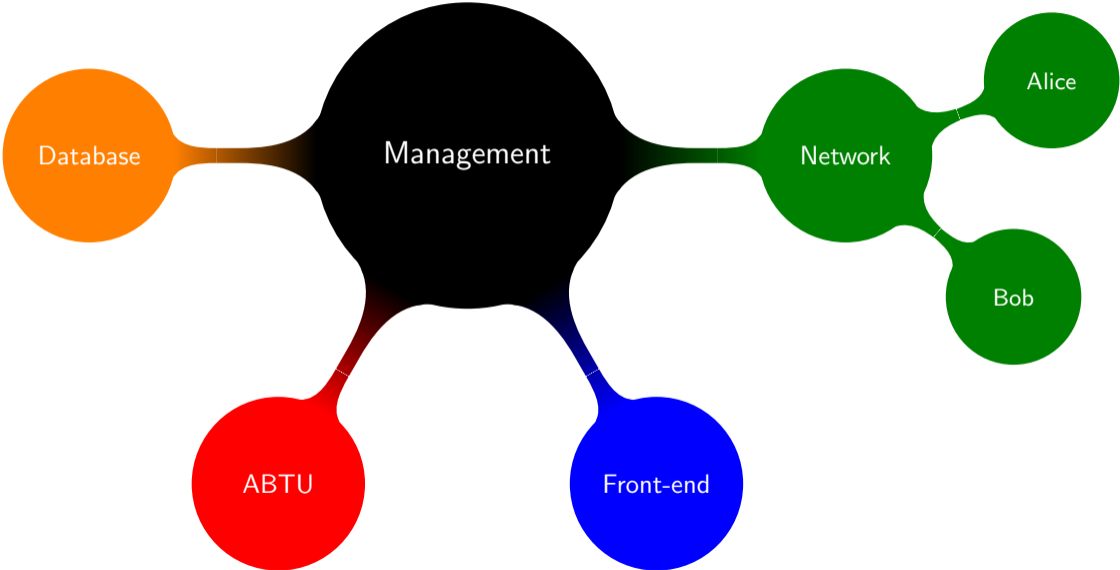
Peer to Peer Network



(http://shareaza.sourceforge.net/mediawiki/index.php/P2P_network/fr)



Architecture



The tools used

- ▶ Browser
- ▶ jQuery
- ▶ Bootstrap
- ▶ Ace (text editor)

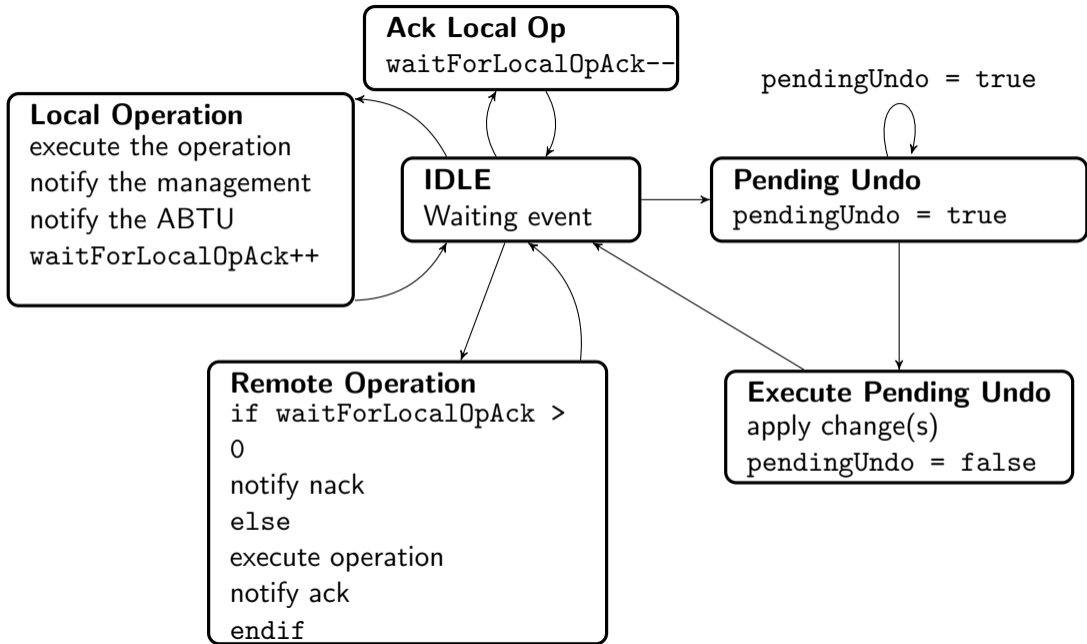
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- ▶ jQuery
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- ▶ CouchDB
- ▶ FirePad (not yet, wysiwyg¹)

¹What-You-See-Is-What-You-Get



Issue

#	Alice	Bob
1	press 'a'	
2	insertion triggers event	
3	sends the information	
4		receives the information
5		insertion of 'a'
6		the insertion triggers event
7		sends the information
8	receives the information	
9	...	

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Solution

Use a flag

Consistency issues

- ▶ What if someone changes the rights of someone?
- ▶ Who has the right name of a file?

Permissions

- ▶ Read only (RO)
- ▶ Read Write (RW)
- ▶ Read Write Add (AD)

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File Browser

- ▶ Documents must be stored somehow
- ▶ Easy navigation into the files
- ▶ Must be able to group the files

personnel Documents epfl bachelor6 elec_iii

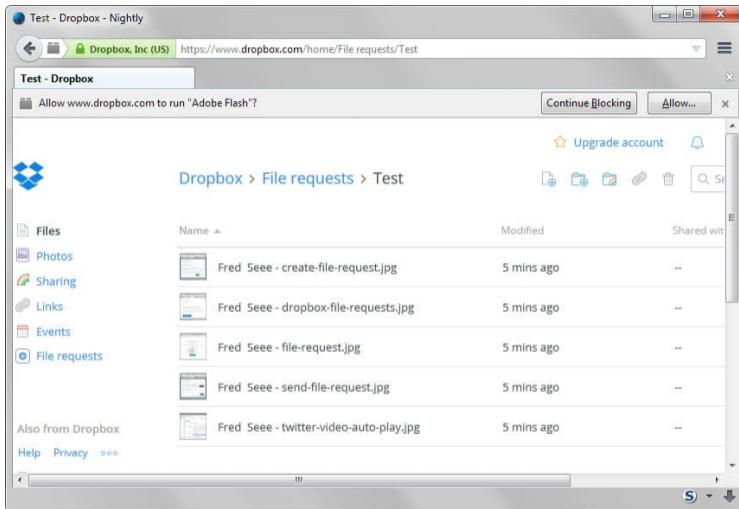
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labo	5 éléments	2 mai
texTes	4 éléments	2 avr
algoSQRT.docx	107.5 ko	24 mar
Analyse_Widlar.pdf	1.2 Mo	24 mar
binaryDivision.png	2.2 ko	28 fév
binarySquareRoot.png	7.9 ko	28 fév
C00_Preambule.pdf	419.8 ko	7 mar
C01_MiroirsdeCourant.pdf	487.8 ko	7 mar
C02_PaireDif.pdf	336.6 ko	20 mar
C03_Darlington_PushPull.pdf	135.5 ko	27 mar
C04_Conversion.pdf	943.4 ko	3 avr

(A)

Mon Drive > zdameko

Nom ↓	Propriétaire	Dernière mo...
js	moi	26 juin 2013
include	moi	26 juin 2013
document	moi	26 juin 2013
zdamekoc_school.sql	moi	27 juin 2013
robots.txt	moi	26 juin 2013
index.php	moi	26 juin 2013

(B)



(C)

Future Work

- ▶ Definition the protocol (precisely)
- ▶ Plug all the components
- ▶ Rewrite the database parts
- ▶ Integrate a (better) WYSIWYG Editor