JAKE

the tale of ase team 04
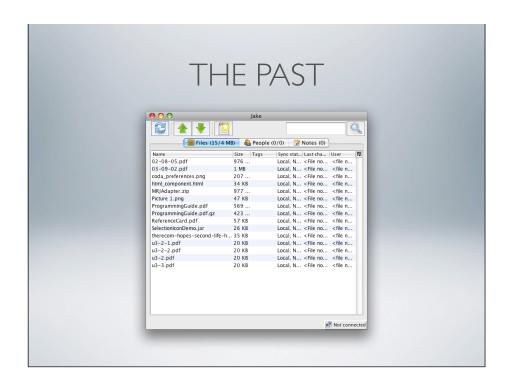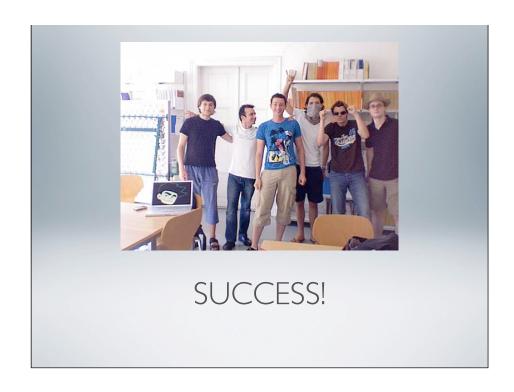january 2008

so... gleich gehts los!

THE PAST

yeah... that's pretty much it.

SUCCESS!

ein erfolg wars, 1er abgeräumt :)

but...

it was just a mock...

and the gui sucked, <u>badly</u>!

THE PRESENT

"PROJECT ASSIGNMENT"

• phase 2 of our collaboration client

• replace mock with xmpp-implementation

• replace gui

• system integration with mac, linux and windows

THE PRESENT

ADDITIONAL REQUIREMENTS
(NOBODY ASKED FOR)

• replace plain-jdbc with hibernate

• do not reuse current daos

• triggered redesign of all internal components

• work in & code the daos: **> 100h!**

THE PRESENT
ADDITIONAL REQUIREMENTS
& THEIR RAMIFICATIONS

- delay and problems documented since mr2 & is-status

- why?

    - hibernate unsuitable for dynamic loading of linked data

    - complex domain

THE PRESENT
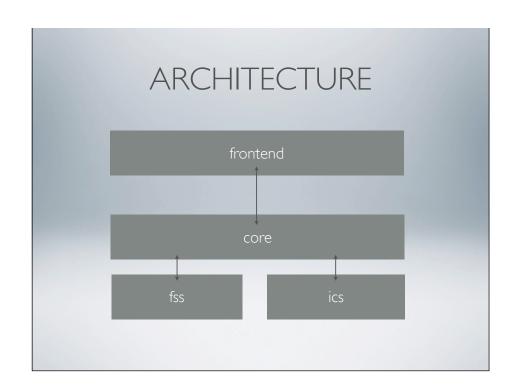## ADDITIONAL REQUIREMENTS
& THE FALLOUT

• finished daos in january, 17th

• recoding of sync module could not be finished

• but:

  • the project will be continued!

  • 20/30 h

  • re-implementation within the next 2 month

THE PRESENT

GOALS

• ease of use

• gorgeous interface

• fast and reliable

• extensible architecture

• run anywhere

• no need for servers*, simple setup

OTHER OBSTACLES

• did we mention hibernate already?

• too long evaluation (coding-start: late november)

• problems with multithreading

• gold-plating
  (or: we just wanted to get it <u>right</u> from the beginning)

ARCHITECTURE

frontend

core

fss		ics

CORE

- highly extensible architecture

- multi-user

- multi-protocol

- multi-project

- multi-frontend

GUI DEVELOPMENT, RELOADED

- evaluation of our users

- development of demo ui

- massive usability tests "on first hand"

- look native & gorgeous
  (= do not look like java)

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PERSONAS

- "**anna**" uses msn messenger user, word, windows - wants to share holiday photos, "should just work"

- "**alex**" student of a technical university. very experienced using software. uses linux or mac os. wants an easier workflow than sending emails for sharing files in group work. wants full control over his files; service should be fast and reliable.

- "**frank**" architect. usually works on files that are way to large to send via email. finds it toilsome to send those files to his boss every day. cares about security and does not want to use servers in the cloud to store his work.

GUI DEVELOPMENT, RELOADED

- became #1 contributor of macwidgets

- massive use of modern libs

- do it like iTunes

- look native & gorgeous (= do not look like java)

swingx, jxlayer, miglayout, quaqua, jna,

everybody knows iTunes!
don't show the user that we are java!

SHOWTIME

XMPP / ICS

- Ersetzbare Komponentenarchitektur des ICS

- ICS bietet:

- Login/Logout

- Verwenden einer Nutzergruppe

- Onlinestatus anzeigen

- Nachrichten verschicken

XMPP / ICS

- Die XMPP-Implementierung bietet darüberhinaus

  - Login an beliebigen XMPP-Servern

    - Auch Google Talk, GMX, etc (tw. Unterschiede in Authentifizierung)

- Benutzergruppe wird in Roster abgelegt

- Dateitransfers per XEP-0047 (In-band)

ADDITIONAL ICS FEATURES

- In-Band oft langsam (Bandbreitenbegrenzung)

- Fallback-Architektur für Datentransfers

  1. Socketadressen austauschen → P2P

     - Schnell, z.B. in Firmennetzen

  2. Inband

     - Angedacht ist dazwischen:

       - ICE, mittels uPNP durch NATs

SHOWTIME II

THE FUTURE

• finish development

• go private beta

• release

• get on slashdot

• get rich & famous ;)

jake. let's share.

Welcome to Jake!

Jake is a collaborative file sharing client that allows you to work on a project environment together with friends or colleagues.

Share.

From college projects to design work - Jake is for you. Whenever someone on your project changes a shared document (or any file for that matter), everyone else who's online will instantly receive the new version without as much as having to lift a finger.

Communicate.

Send messages to your fellow project members. Write notes for everyone to see. Jake doesn't replace your favourite chat client, but acts as a complement for efficient intra-team communication.

Runs Everywhere.

Linux nerd? Mac fanboy? Windows softie? We got you covered. Jake is based on Java™ technology, enabling it to run on any platform supported by the Java™ runtime environment. Which pretty much includes everything. Seriously.

Open Standards.

Plays well with others. Jake uses the mature and just plain awesome Jabber (XMPP) protocol to exchange information with your teammates. And if you're curious, you can always have a look under Jake's hood - it's fully open source.