

Remote Access to Sorcer File Store

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May 8th, 2004

Overview

- Design
- Servlet
- Midlet
- Future Work?

Design

Main objective
Goals
Workload split

Servlet

Midlet

Future Work?

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Main objective

Browse and view files from Sorcer Filestore on mobile client

Design

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Goals

- Browse files
- View Text files
- View Image files
- Play sound files

Design

Main objective

Goals

Workload split

Servlet

Midlet

Future Work?

Workload split



Design

Servlet

Responsibilities

Design

Problems

Midlet

Future Work?

Servlet

- Responsibilities
- Design
- Problems

Responsibilities

- Access Sorcer File Store
- Provide Content in HTTP format
- Autoconvert and scale images

Design

- Generic File Store that has support for FakeFileStore and SorcerFileStore
- Tries to see if requested document is directory, if so reads all subdirectories, then reads all files in that directory.
- If requested document is a file, check its type, and autoconvert in case of image files.

Problems

- Sometimes errors will suddenly occur and disappear
- Understanding and getting into SORCER took some time
- Thanks to Ravi!

Midlet

- Responsibilities
- Design

Responsibilities

- Access Servlet
- Check Content
- Display Dir Listing
- Display Text files
- Display Images
- Play Sound

Design

Check Content-Type given by Servlet

- if it is x-dirlisting, display it as list, has functionality to browse back and forth through the directories
- if it is a image, diplay it as image
- if it is a text, diplay it as text
- if it is a wave file, play it

Future Work?

- Missing Features
- Extensibility

Missing Features

- Editing text files
- Support for large text files
- Uploading images taken from phone camera
- Autoconversion from word files to text files

Extensibility

- Editing functionality
- Support for more autoconversions
- Enhance protocol to be fully WebDAV level 2 compatible