

Project Report

Group Panda

Java and C# in depth, Spring 2013

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1 Introduction

This document describes the design and implementation of the *Panda Virtual File System* of group *Panda*. The project is part of the course *Java and C# in depth* at ETH Zurich. The following sections describe each project phase, listing the requirements that were implemented and the design decisions taken. The last section describes a use case of using the *Panda Virtual File System*.

2 VFS Core

[This section has to be completed by April 8th.]

Give a short description (1-2 paragraphs) of what VFS Core is.

2.1 Requirements

Describe which requirements (and possibly bonus requirements) you have implemented in this part. Give a quick description (1-2 sentences) of each requirement. List the software elements (classes and or functions) that are mainly involved in implementing each requirement.

2.2 Design

Give an overview of the design of this part and describe in general terms how the implementation works. You can mention design patterns used, class diagrams, definition of custom file formats, network protocols, or anything else that helps understand the implementation.

3 VFS Browser

[This section has to be completed by April 22nd.]

Give a short (1-2 paragraphs) description of what VFS Browser is.

3.1 Requirements

Describe which requirements (and possibly bonus requirements) you have implemented in this part. Give a quick description (1-2 sentences) of each requirement. List the software elements (classes and or functions) that are mainly involved in implementing each requirement.

3.2 Design

Give an overview of the design of this part and describe in general terms how the implementation works. You can mention design patterns used, class diagrams, definition of custom file formats, network protocols, or anything else that helps understand the implementation.

3.3 Integration

If you had to change the design or API of the previous part, describe the changes and the reasons for each change here.

4 Synchronization Server

[This section has to be completed by May 13th.]

Give a short (1-2 paragraphs) description of what VFS Browser is.

4.1 Requirements

Describe which requirements (and possibly bonus requirements) you have implemented in this part. Give a quick description (1-2 sentences) of each

requirement. List the software elements (classes and or functions) that are mainly involved in implementing each requirement.

4.2 Design

Give an overview of the design of this part and describe in general terms how the implementation works. You can mention design patterns used, class diagrams, definition of custom file formats, network protocols, or anything else that helps understand the implementation.

4.3 Integration

If you had to change the design or API of the previous part, describe the changes and the reasons for each change here.

5 Quick Start Guide

[optional: This part has to be completed by April 8th.]

If you have a command line interface for your VFS, describe here the commands available (e.g. ls, copy, import).

[This part has to be completed by May 13th.]

Describe how to realize the following use case with your system. Describe the steps involved and how to perform each action (e.g. command line executions and arguments, menu entries, keyboard shortcuts, screenshots). The use case is the following:

- 1. Start synchronization server on localhost.*
- 2. Create account on synchronization server.*
- 3. Create two VFS disks (on the same machine) and link them to the new account.*
- 4. Import a directory (recursively) from the host file system into Disk 1.*
- 5. Dispose Disk 1 after the synchronization finished.*
- 6. Export the directory (recursively) from Disk 2 into the host file system.*
- 7. Stop synchronization server.*