

Design and Development of a Cloud Storage Application for Advanced Programming Subject

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Introduction

Cloud storage applications are applications in charge of providing cloud storage services, that is, providing the user with the ability to store files, organize them in folders and access them from any computer with an internet connection.

Goal

Accomplish a development of a quality software based on clients needs To reach these goal we based on the qualities:

- Scalable: The ability to always respond as efficiently as possible to requests from any number of clients
- Maintainable: The ease of extending and adapting the architecture over time to the needs of the users
- Reliable: The ability to perform to your specifications in the widest variety of situations.

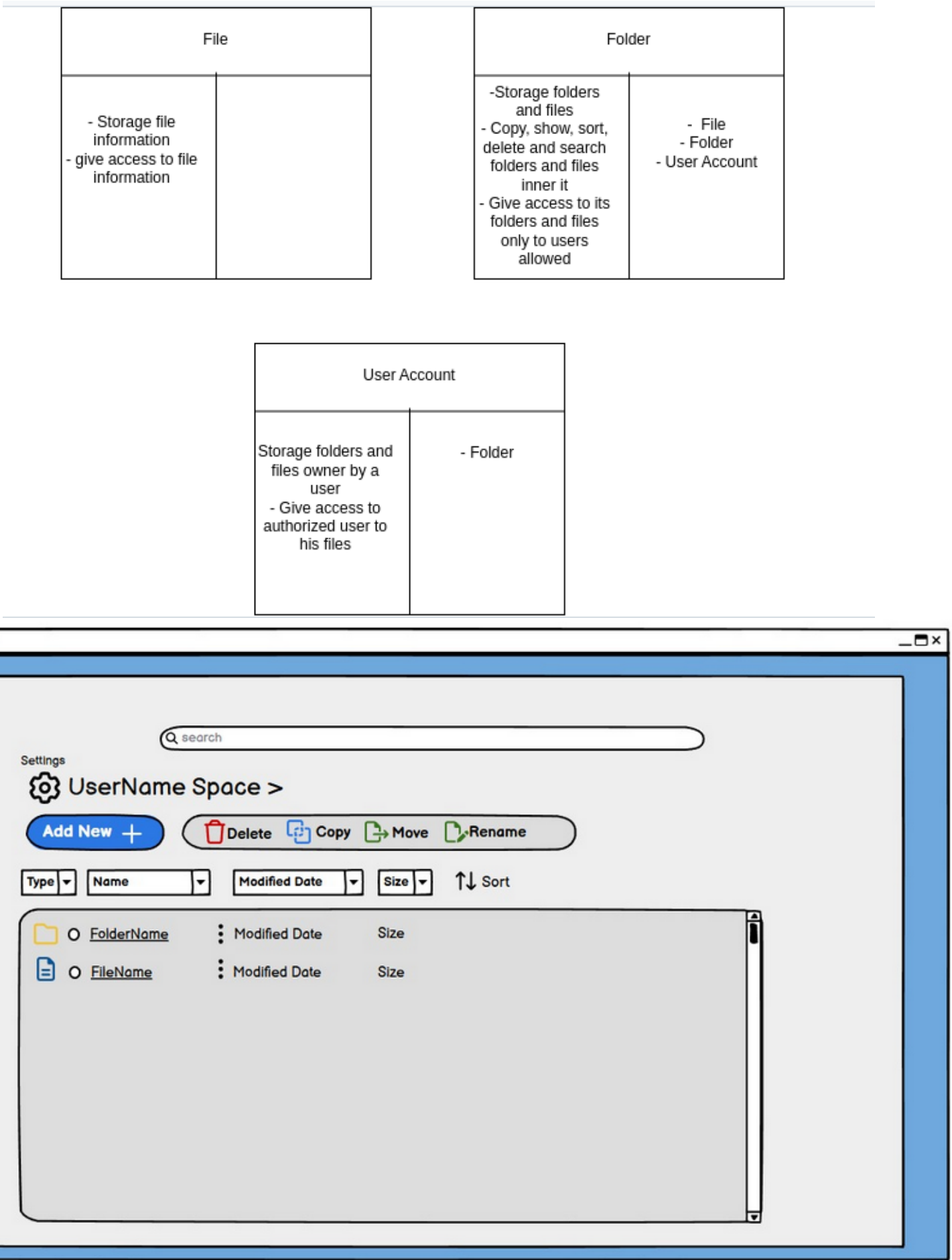


Proposed Solution

We ask to the users what their needs and wants:

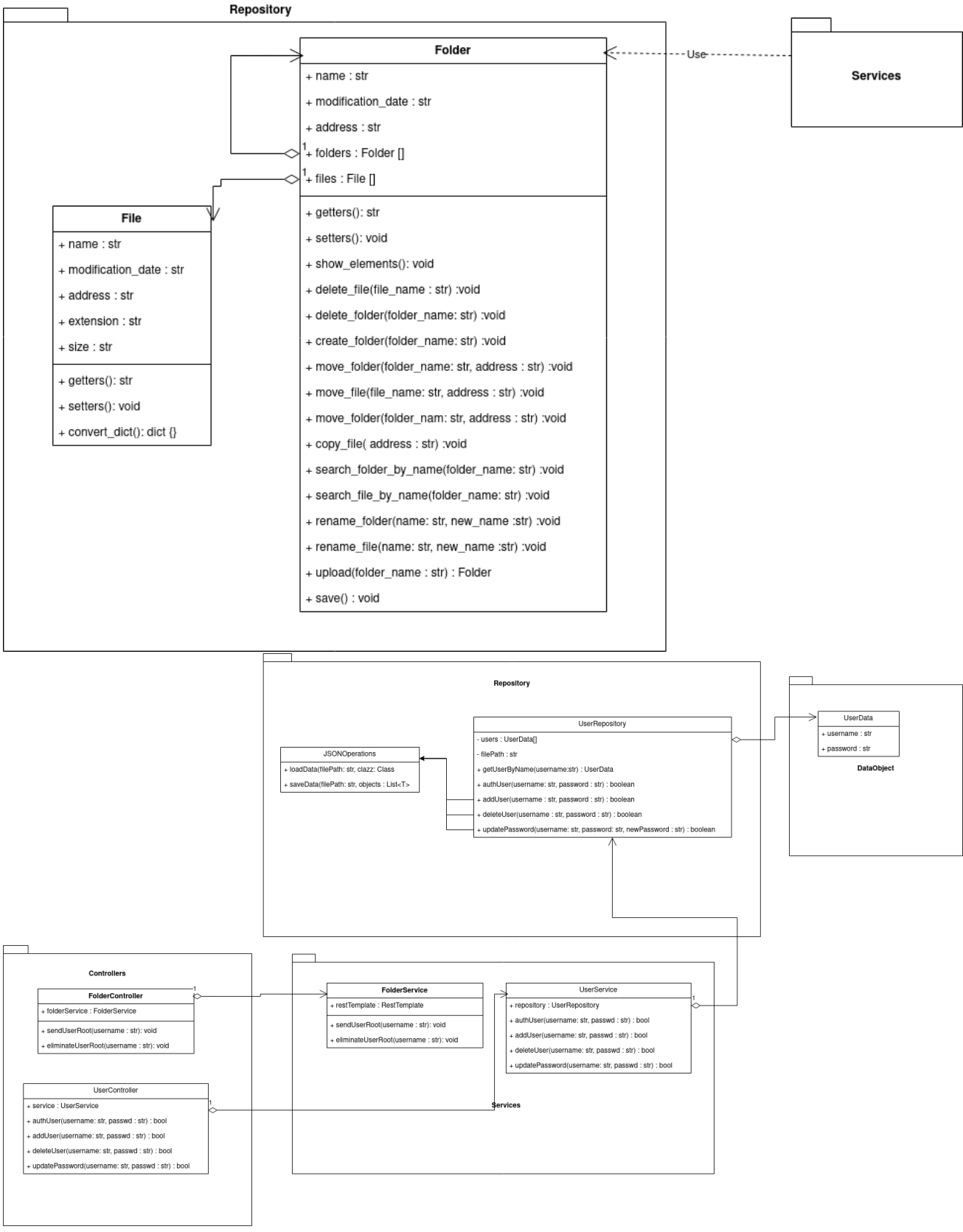
- I as a user I expect an intuitive software to upload and sort files.
- I as a user, I except to keep my files and folders secure of thirds persons.
- I as user, I except that my storage always be enough for my folders and files.
- I as user, I except a graphic and intuitive interface.
- I as user, I expect to open my files with third party applications.
- I as user, I expect to download files from my storage to my personal computer.
- I as user, I expect to see the modification date of my files and open it
- without required to download.
- I as user, I expect to sort my files by name and modification date.
- I as user, I expect an easy access and search through my storage.

We design a concept of the entities behind that funtionalities and mockup a proper user interface



Results

we design the web applications in a microservices architecture, separating a services to manage the files and folders and other to manage users and their authentication. These are represented in the next class diagrams



Conclusion

The methodology proposed has provided a successfully way to understand whats clients needs and wants into a complete operate software architecture; following the steps described at design, we could be a step forward to quarantine a quality software of any type, as a example show it, the cloud storage applications