(Chris Intro)

QuixSync is a synchronization-tool.  
Now you must think

“There are so many others working sync tools, why they make another one more?”

The answer of this question is simple:

The most other modern programs for example from big companies run in a cloud or need an internet connection. And maybe they will cost money and you don’t know what the program does in the background.

You would like to say to me, that there are alternatives in the Open Source segment. And I would answer “We know.” But in single cases these programs are overloaded with unnecessary functions.

Therefore, we thought, we make our own synchronization tool. The reasons why those programs are extremely useful are obvious. Immediately, I can think of two use cases:

There are students with notebooks for the university and they would like to work further on a Desktop-PC at home.

Furthermore, there are lecturers, which would like to update their directories on the fileserver for the students, without thinking about which specific file is no longer up-to-date.

QuixSync is the solution to realize these two Use-Cases.

So now let us see, what we have done the last 2 months.

(Klick)

Here you can see a mockup from our technical specification. Let's see us how it ended.

We can see it at this board.

(Open on My Laptop)

You can see that there are some changes to the mockup.

At the top you will see a small progress bar that shows the progress of a specific task.

Underneath it there are five pages which allow you to reach every single Synchronization Step, as well as the “Whole Synchronization” and the Settings

Let’s start with the “Whole Synchronization”.

Here you can see, two text fields. In these you should write the path for your Source and Target directory you want to synchronize.

Therefore, the buttons on the right side, will allow you to open a file chooser.

Finally, if you click on “Synchronize” the whole synchronization will start.

Later we will talk about the other features.

But first let's have look at how the synchronization works in detail.

Basically, QuixSync is a program, which can synchronize two directories.

For this purpose, it was divided in 3 steps:

1. Indexing

2. Comparing

3. Syncing

You can start each process by yourself.

Or you use the whole synchronization feature.

We would like to describe each single task shortly for you:

(Klick)

Indexing runs through every directory and save information’s about the included files.

We decided us to use Nested Sets to build up the file tree, because it is the simplest way to get a tree structure. With this we can skip on comparing certain directories with their included files and sub directories, which have no changed “last modified” dates. This can increase the performance extremely.

But by skipping some file and directories, the program no longer captures renames, so we decided to make this step optional. We called it “Fast Mode”.

Now, Chris explains what lies behind the comparison.