Vorstellung Softwareprojekt

Comparsion

Okay, I will present the Comparison Step from QuixSync.

In this step two created „.index.quix“ files are compared with each other.

Those files are created in the Indexing process you heard about before.

Therefore, before you start your first comparison you have to index at least 2 directories.

You can find all created index-files in your temporary directory you can select in the settings, in the 2 presented lists.

For choosing the correct ones, the date of creation and the path oft he indexed directory is shown as well.

To start the comparison process you now have to choose one file in each list.

The left one defines the Source and the right one the target directory.

If you watch closely you can see that when you chose one file, the path oft he index-file itself is shown above.

You start the process by clicking the button.

Now the differences between source and target, wich is a list of wich files have to be copied to the target and wich files have to be deleted, are put in a „.compare.quix“ file.

Whether files have to be deleted or not is Depending on the activated modes. Phillip will tell you more about this later on.

To have a deeper look, the index- and comparison-files are written are Java objects written in JSON.

Therefore we used GSON, an external Java library by Google wich converts Java objects into JSON.

The Comparison is now done.

Now Phillip will present the „Synchronization“ Process.

The Program Header

You may already spotted that the Program header contains more than just the progress bar of the current Action.

By the way the current Action is shown left of the progress bar, if you haven’t already noticed.

Also Quix is spinning around to indicate that an Action is running.

The Special thing about the program header is just mentioned ist hat the header is adapting itself to the synchronization sequence.

This means in detail:

You start by indexing two directories (by the way you can start the index progress also by pressing this button as well)

After you have done this with 2, the program header is jumping to the next process „Comparing“

You can indicate this by the changing name of the „Action Button“.

If you press it now the last 2 created index-files are compared.

Afterwards the Action will change to synchronize, wich will sync the last created compare-file.

Thats it about our Live Demo.

Phillip will now show you what has changed between the final prototype and your technical specification.

As the last thing to tell, I will now say wich part oft he program is done by whom.

As the only true programmer in our group, most of the program is written by Quentin.

Because of this Phillip and I have done the main part in our technical specification and this presentation.

In terms of programming we both more likely assisted Quentin.

I have written the methods for converting Java Objects into JSON. As mentioned before I used the GSON library fort hat.

I also wrote the Logger. Therefore I used the Log4j2, a Logging Framework by Apache.

I configured the logging directory structure (including filing), that the logfiles are printed in JSON and wrote a Method to merge all logfiles together, for displaying them in the settings as showed before.

And together with Quentin did the Internationalization.

Phillip created the whole graphical User Interface, using the integrated Designer from IntelliJ.

In terms of versioning we used git and github for tracking and merging changes.

Thats it about our presentation.

There is just one more thing to do …

Wich is thanking you all for your Attention and Mr. Heller for the last 4 semesters of programming lectures,

and of course we wish you all…

A Merry Christmas 😊