****

**Version 0.9**

**User’s Guide**

**CS3215 Team9: 0110**

**Gu Yang**

**Li Yi**

**Li Zichen**

**Lu WenHao**

**Tso Shuk Yi**

**Yu Qiqi**

Table of Contents

[1. About CleanSync 3](#_Toc257823303)

[1.1 Overview 3](#_Toc257823304)

[2. CleanSync guide 6](#_Toc257823305)

[2.1 Installation CleanSync 6](#_Toc257823306)

[2.2 Starting CleanSync 6](#_Toc257823307)

[2.3 Creating a new CleanSync job 6](#_Toc257823308)

[2.4 Accepting a CleanSync job 8](#_Toc257823309)

[2.5 Synchronizing a job 9](#_Toc257823310)

[2.6 Conflicts 11](#_Toc257823311)

[2.7 Deleting a job 12](#_Toc257823312)

[3. About Us 13](#_Toc257823313)

# About CleanSync

## 1.1 Overview

Frequently need to work on the same files and folders on 2 different computers? Having trouble ensuring both sets of files and folders are updated? Let CleanSync handle that for you!



Consider this scenario: You have to ensure that files and folders in a certain folder are the same in Computer A and Computer B. If the directory contains hundreds of files and folders, how will you keep track of updates, deletes and modifications to any of the files and folders in both computers? It is possible to copy every file and folder into the external device, but this takes up unnecessary space. CleanSync monitors updates to your files and folders for you, and ensures minimum disk usage on the external hard disk.

**1.2 Clean Synchronization**

So, how does CleanSync work? CleanSync does synchronization through a process called Clean Synchronization. Through Clean Synchronization, synchronizing folders in Computer A and B is done in 2 easy steps:

**Step 1:** Synchronize with Computer A. Assuming that Computer A has a new file(File3.txt), a modified file (File5.txt) and File4.txt has been deleted since the last synchronization. All these information will be acknowledged by the external drive.

PC A:

File1.txt

File2.txt

File3.txt -- Detected new file

File5.txt -- Detected to be modified

File6.txt

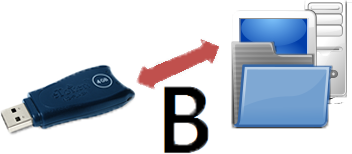
Detected File4.txt has been deleted.

Copied to USB:

File3.txt (New file)

File5.txt (Modified file)

File4.txt(Deleted file)

**Step 2:** Unplug the external device, and synchronize with Computer B. CleanSync will automatically copy File3.txt, modify File5.txt over to Computer B and delete File4.txt. It will also repeat Step 1 on Computer B, to synchronize Computer B’s updates to Computer A.

Update to PC B:

Create File3.txt

Modify File5.txt

Delete File4.txt

USB:

File3.txt (New file)

File5.txt (Modified file)

File4.txt(Deleted file)

That’s it! Through Clean Synchronization, synchronization is easy, quick and efficient.

# CleanSync guide

## 2.1 Installation CleanSync

Unzip CleanSync\_v0.9.zip to any directory in your computer\*. A folder “CleanSync v0.9” will be created in that directory.

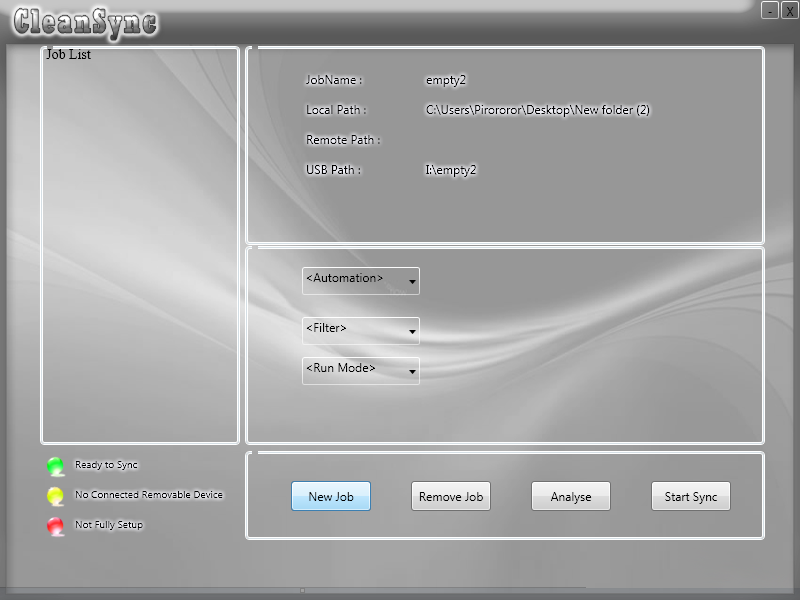
\* Do not unzip to a directory on an external drive.

## 2.2 Starting CleanSync

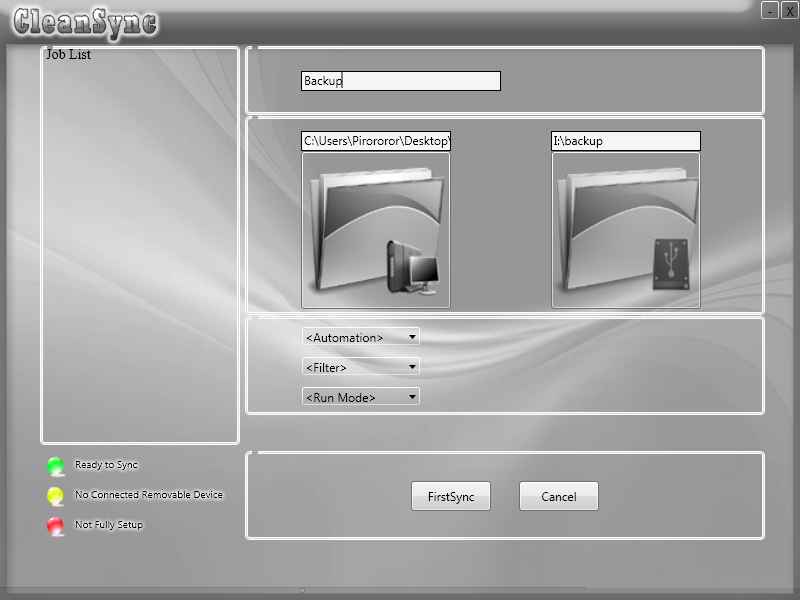
To start, click on CleanSync.exe located inside the CleanSync v0.9 folder.

## 2.3 Creating a new CleanSync job

CleanSync keeps track of the folders to be synchronized through CleanSync jobs. A CleanSync job stores the data of the folders to be synchronized in both computers and the external device used to synchronize the 2 computers.



* From the main screen, click on "new job" to create a new job.



* Enter a name for the job, and select the folder to synchronize.
* Select a folder on the USB drive to store the data on the USB drive.
* You are ready to do a first time synchronization!
* Click on "FirstSync" to copy all the files from the PC folder to the USB folder.
* Creating a job on this PC is now complete!
* Now you can plug the USB into another computer with CleanSync installed for the other computer to accept the CleanSync job.

\* Version 0.9: Please select an empty folder on the USB drive.

## 2.4 Accepting a CleanSync job

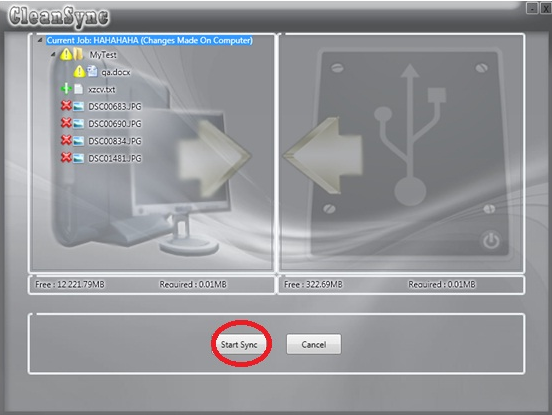
Now that the CleanSync job has been created, the job is not complete yet as the other computer is yet to know of this CleanSync job. Now plug in the external device into the other computer with CleanSync and start the program from there.



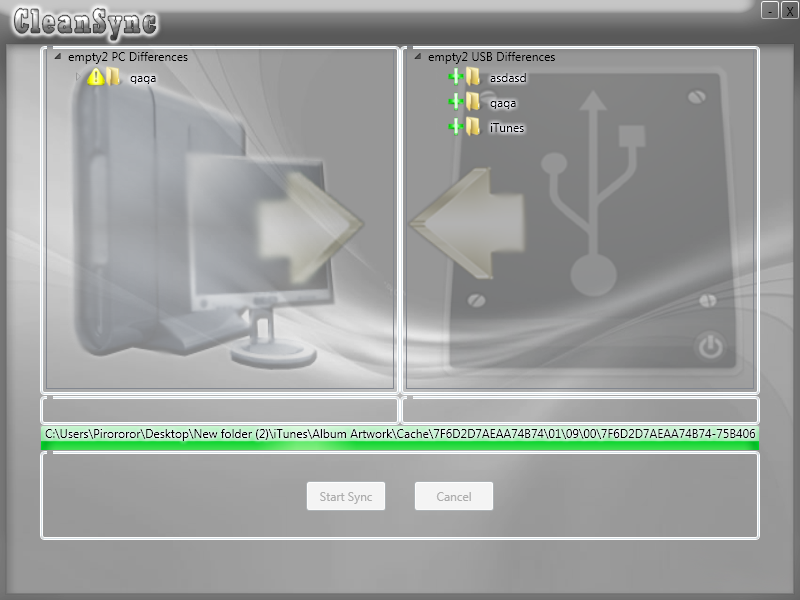
* From the main screen, if a USB drive with a job that has not been accepted is plugged in, it will be shown on the main menu and you will have the option of accepting the CleanSync job.
* An incomplete job will be listed with the colour red.
* To accept, select the incomplete job, select a folder to synchronize on and click on “Accept”.
* Accepting a CleanSync job is now complete! Now that CleanSync has information about both computers and their folders to synchronize, the CleanSync job is complete.

2.5 Synchronizing a job

* From the main screen, select the job you want to synchronize.
* Only jobs with their USB drives plugged in are allowed to be synchronized (i.e jobs listed with the colour green).
* Click on Analyse to view the impending changes
*  denotes a new file/folder to be copied over
*  denotes a modified file or a folder whose contents have been changed.
*  denotes a deleted file or folder.



* After viewing the changes that will happen from USB to PC and from PC to USB, click on “Start Sync” to start synchronization.



## 2.6 Conflicts

During analyzing, in the event of conflicts, i.e files to be copied from USB to PC has already been modified on the PC, a conflict window will appear:



Check on either the “PC Update” box to use the PC’s file as the latest file, or the “USB Update” box to keep the USB’s latest file. Not checking on either of the box will result in neither file being synchronized over.

Note: In version 0.9, checking both boxes causes the USB update to be copied over to the PC but not vice versa.

## 2.7 Deleting a job

To delete a job, select the job you want to delete and click on “Remove Job”.



If the USB device is not plugged in, the data on the USB device will be deleted the next time the USB device is plugged in. To delete the job on the other computer, just plug in the USB into the other computer.

# About Us

0110 consists of 6 members. Through CleanSync, we hope to channel our passion for software development to develop a product that is beneficial to the general public.

Group Leader: Li Yi

Group Members: Gu Yang

Li ZiChen

Lu Wenhao

Tso Shuk Yi

Yu Qiqi

Special thanks to Mr Damith for his mentorship and guidance, Mr Soo for his invaluable advice about CleanSync’s architecture, Ms Susu for pointers to improve our coding and everyone who gave us invaluable feedback on our product.