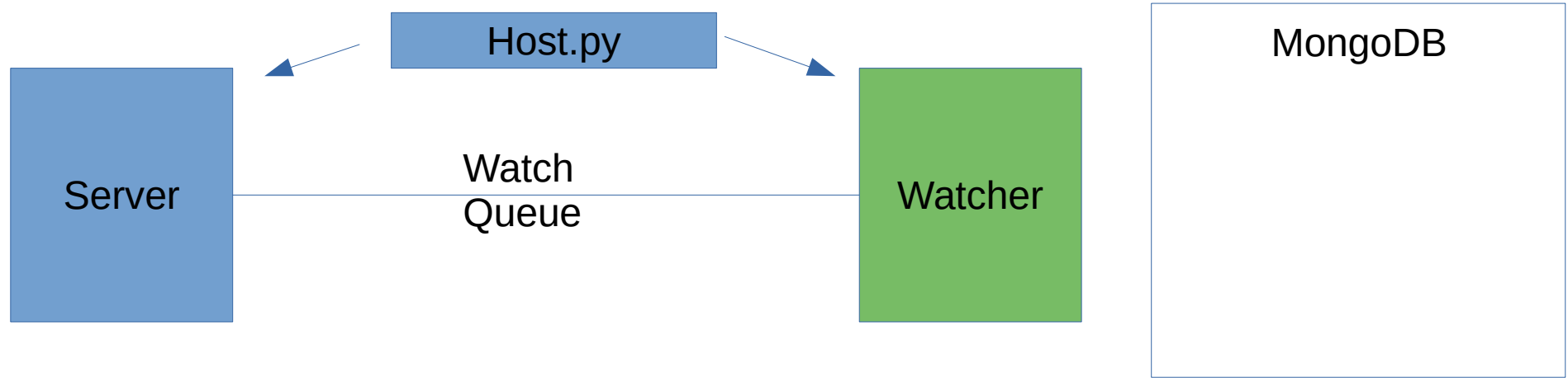
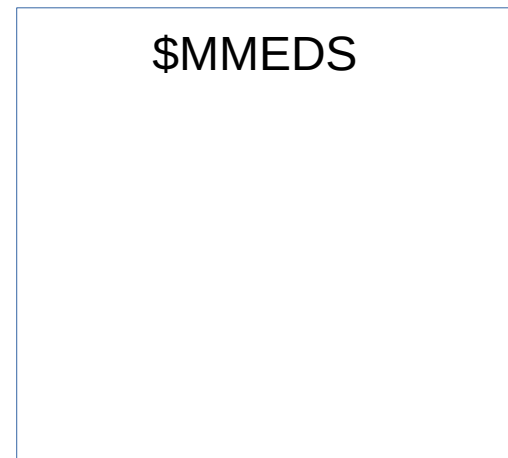
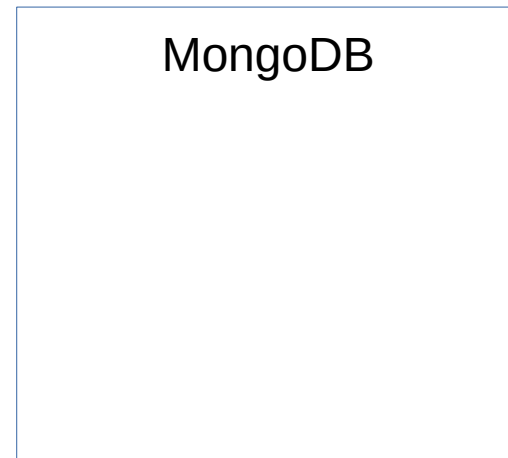
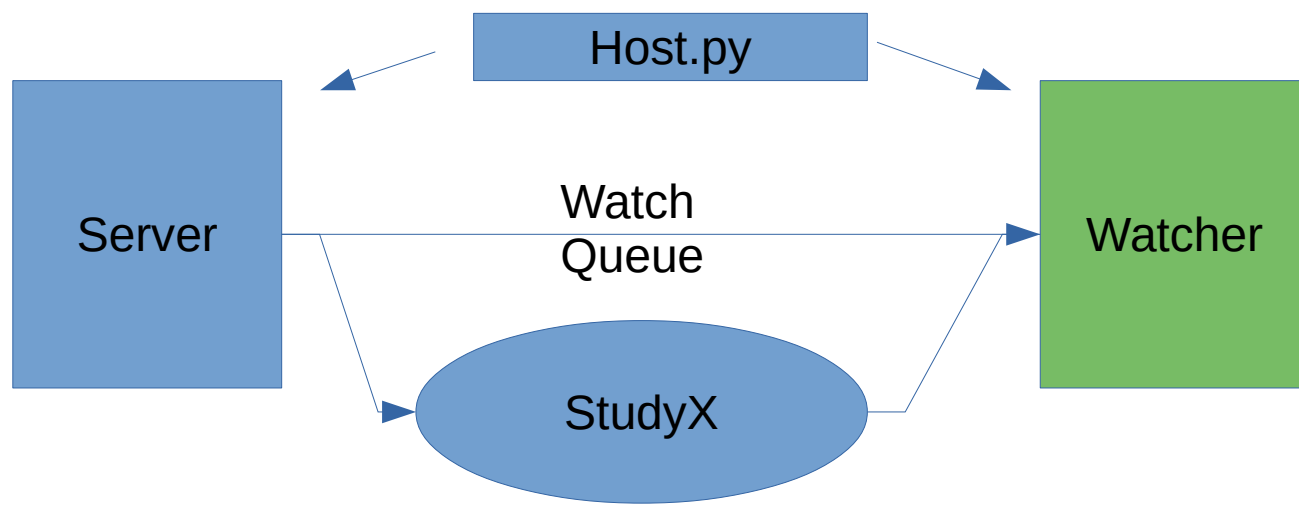


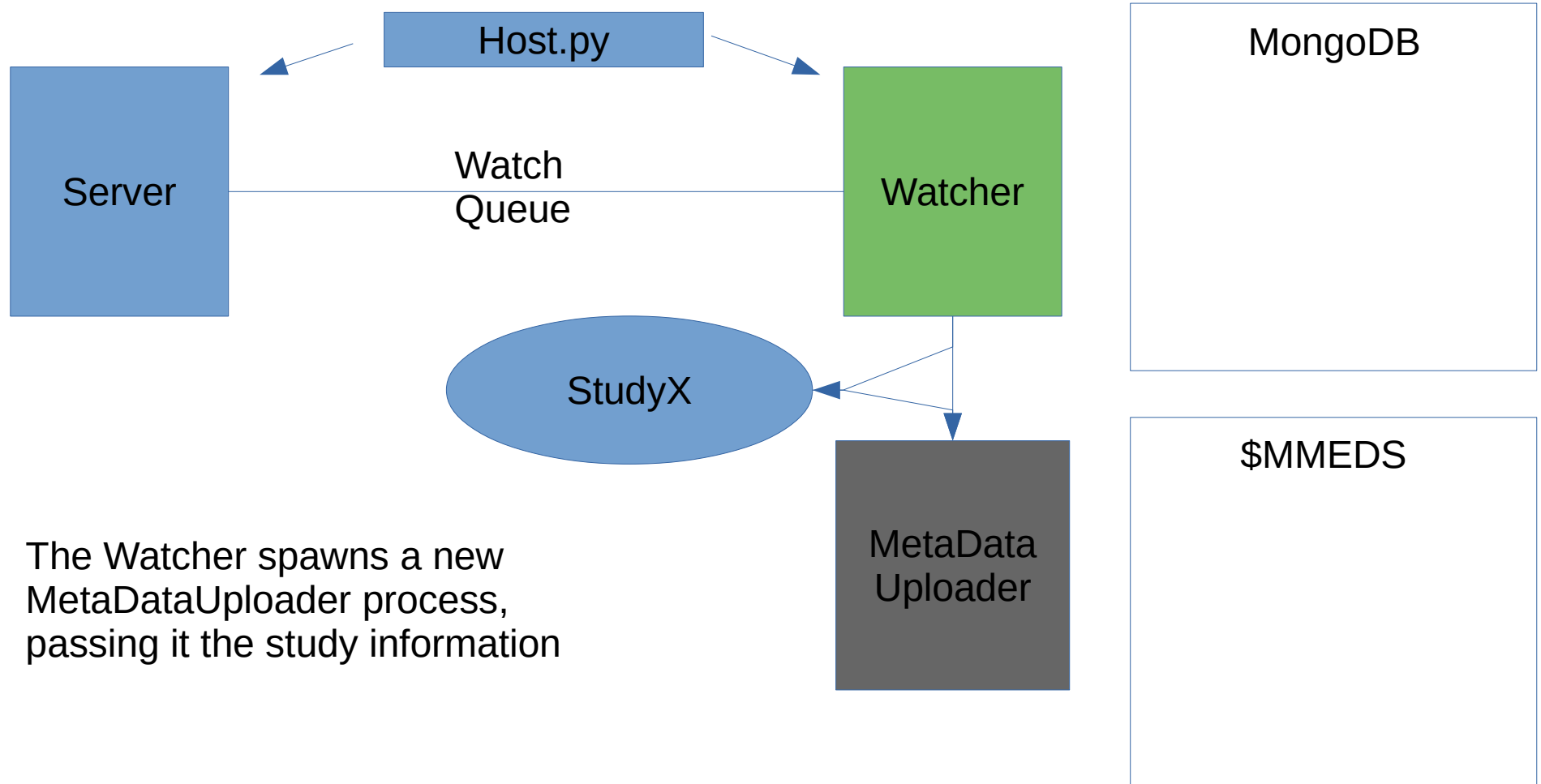
- \$MMEDS is the mmeds base directory (mmeds_server_data) on whatever filesystem
- Rectangles are Objects
- Objects other than MMEDSDocs are processes
- Arrows are pointers
i.e. The source of an arrow has knowledge of the object the arrow points to

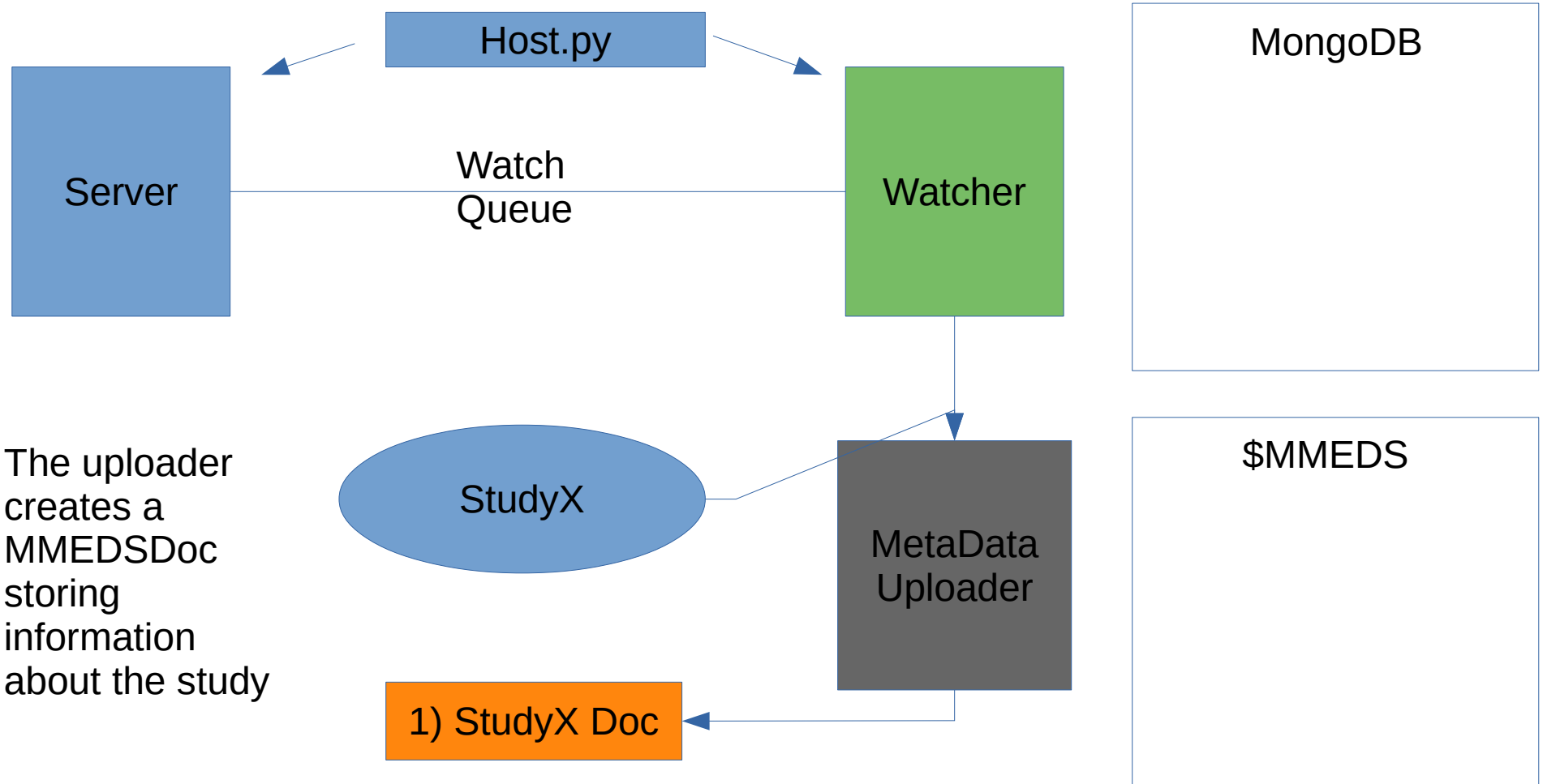


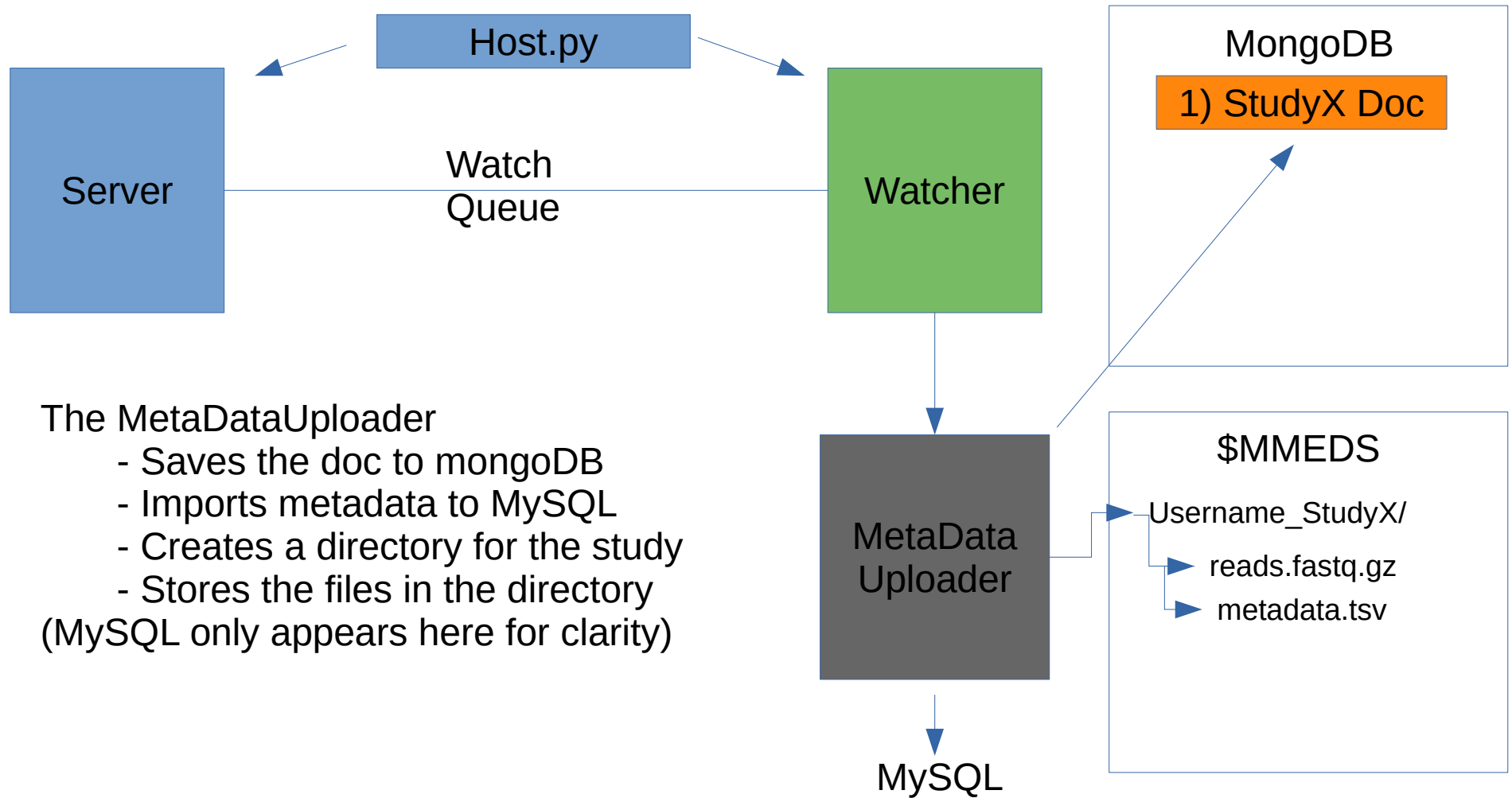
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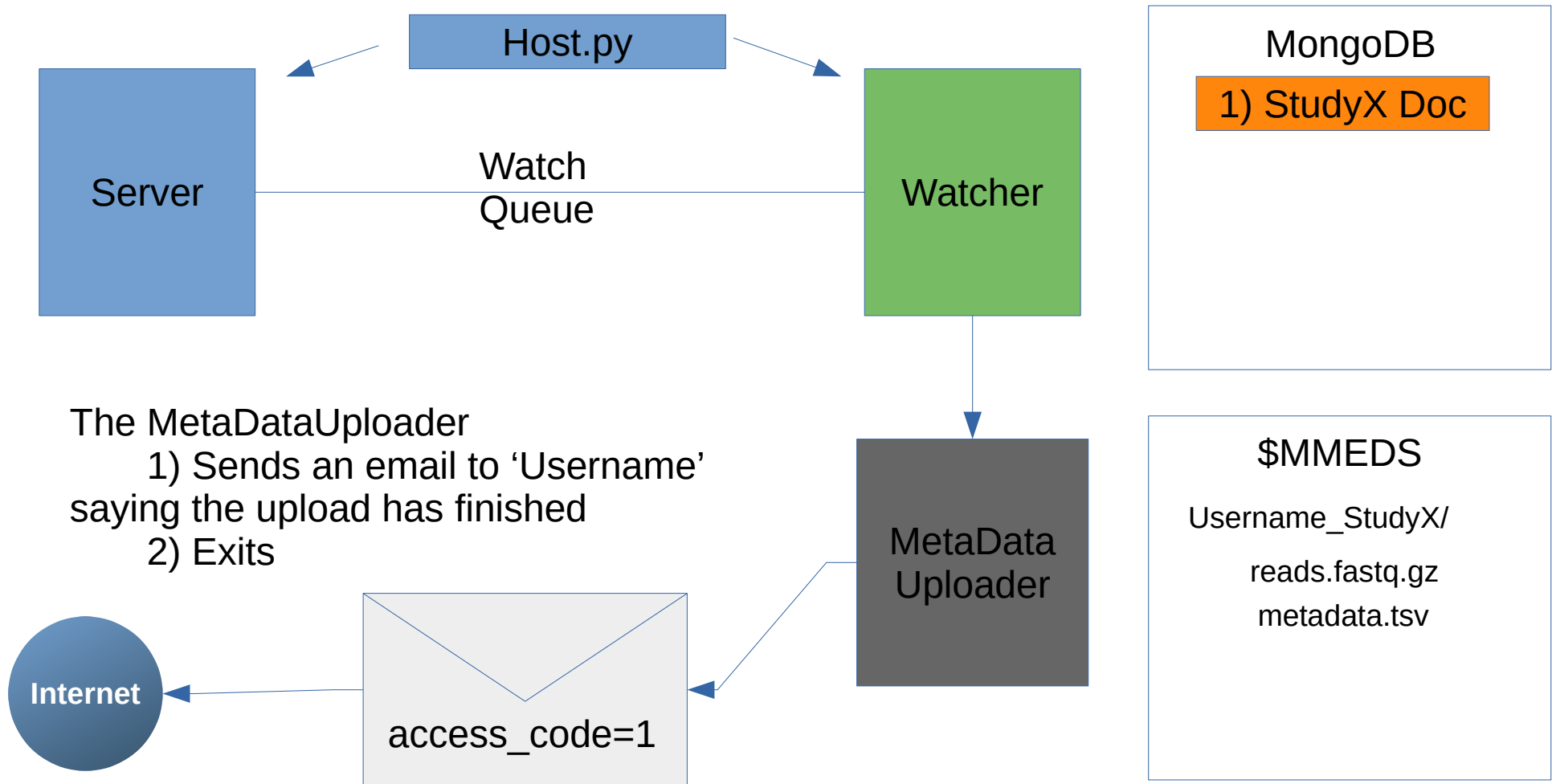


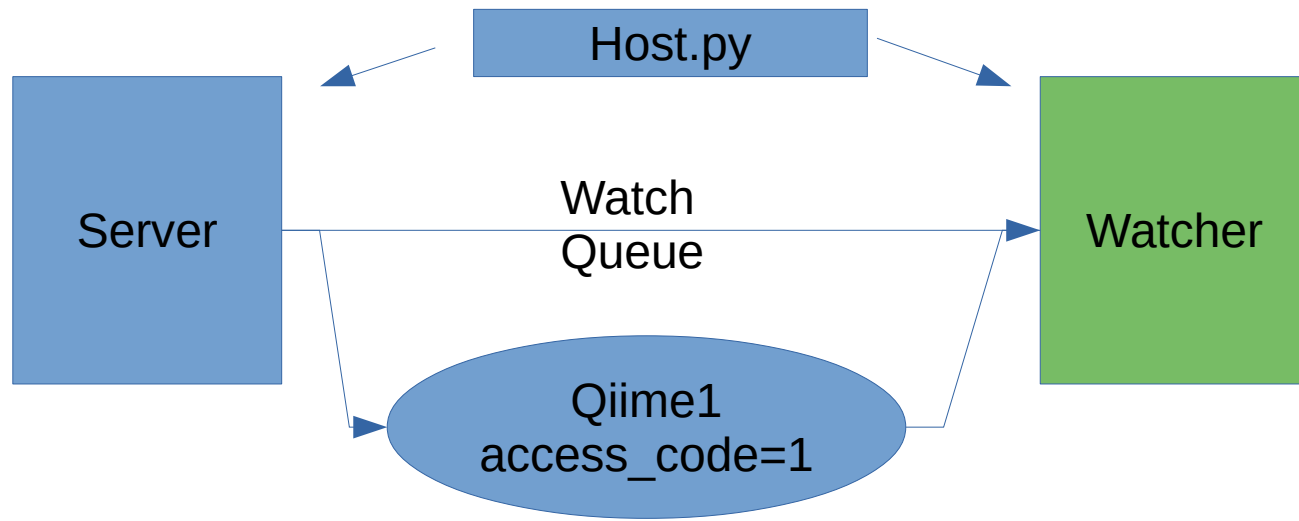
A study is uploaded to the server and passed to the Watcher via the Watch Queue



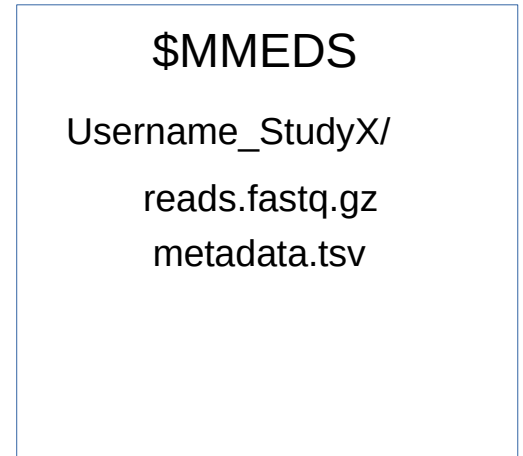
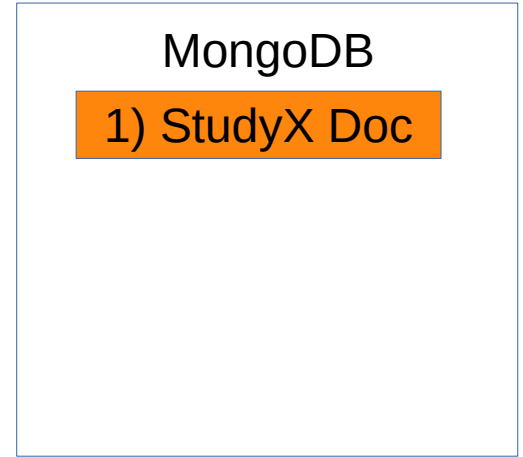


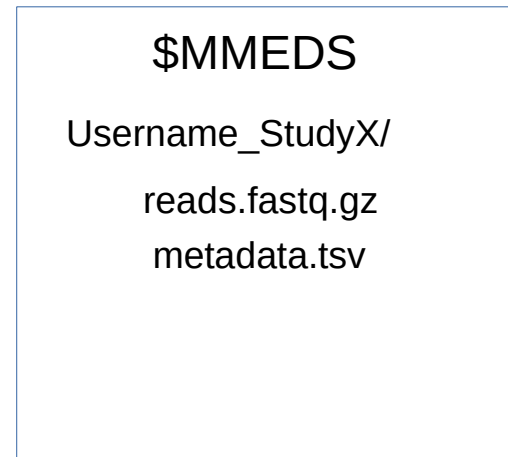
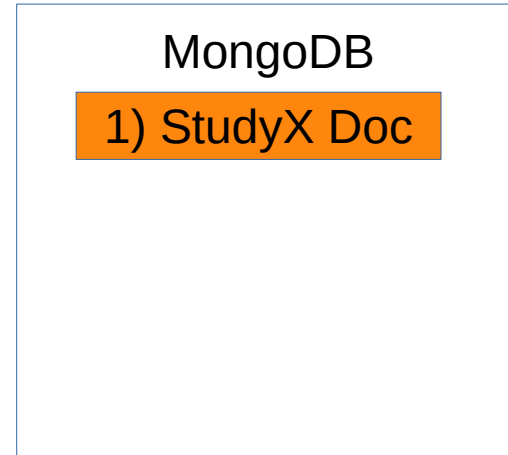
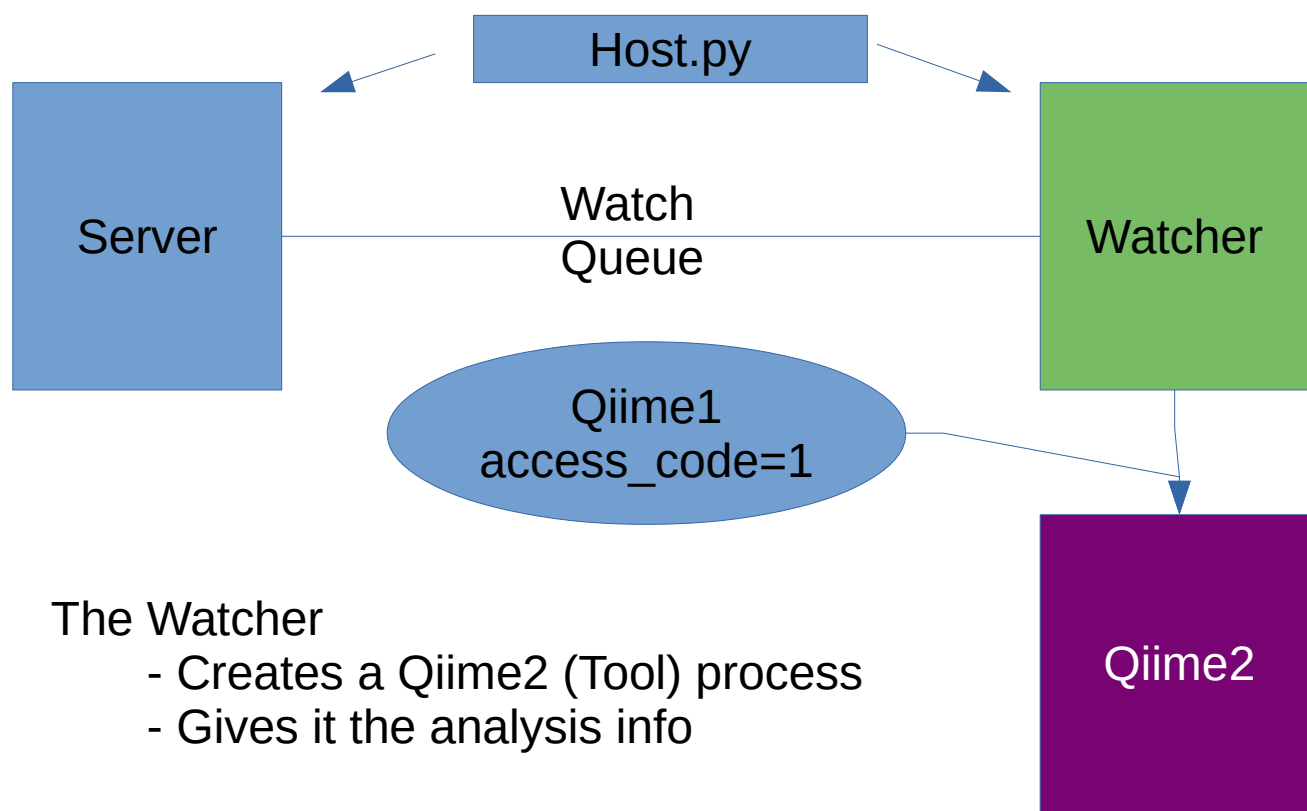






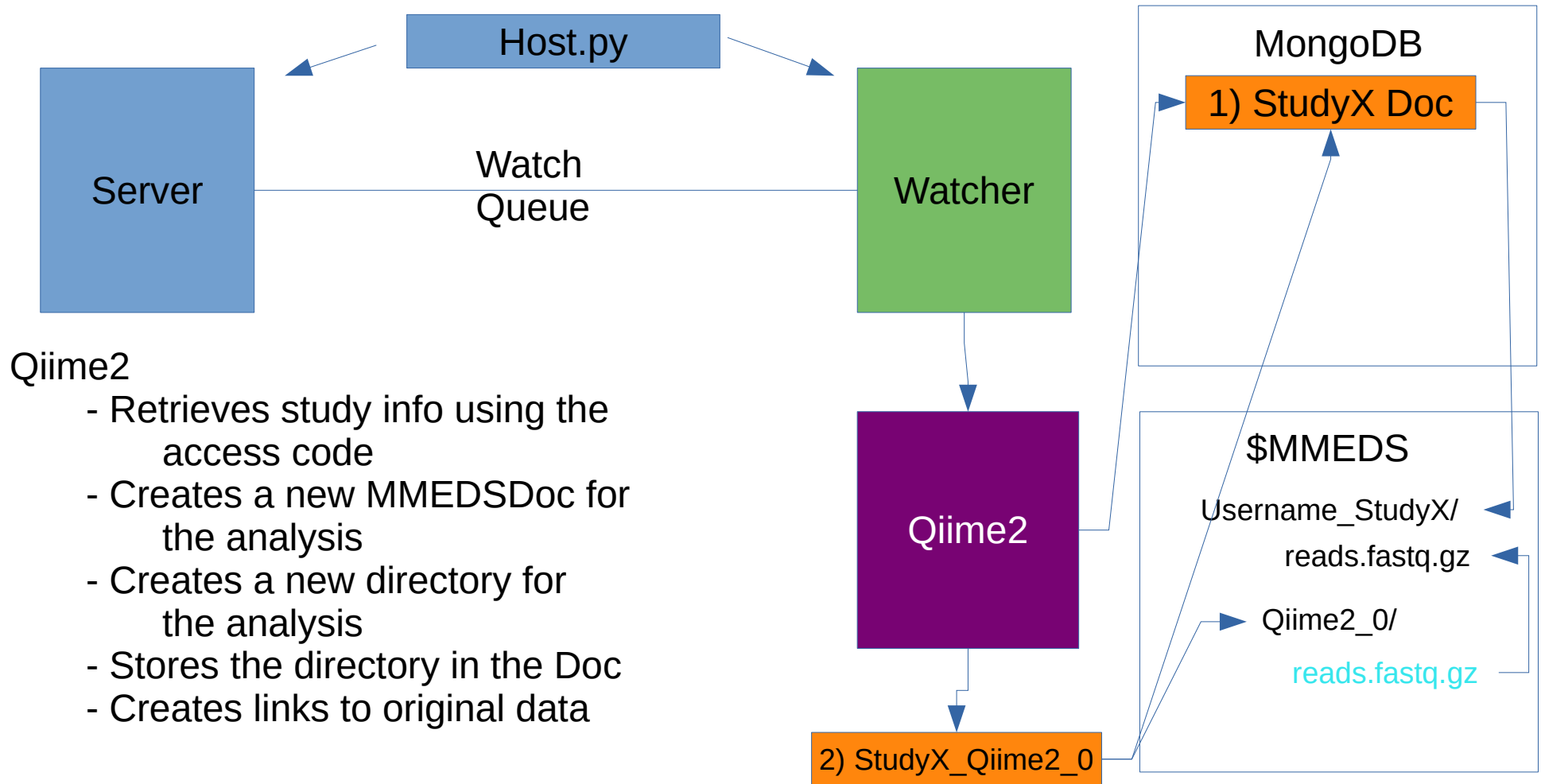
The user returns to the server and requests an analysis

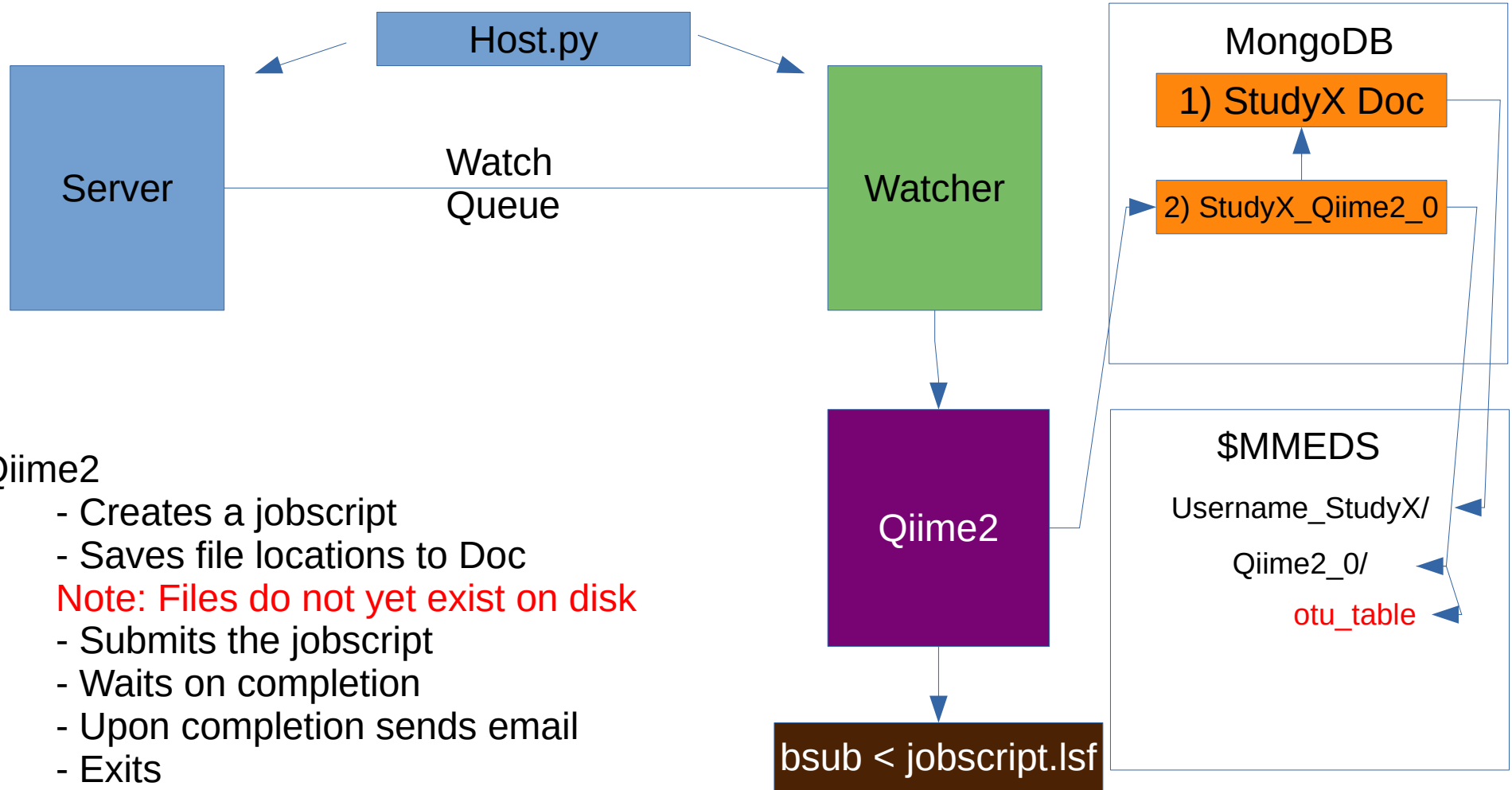




The Watcher

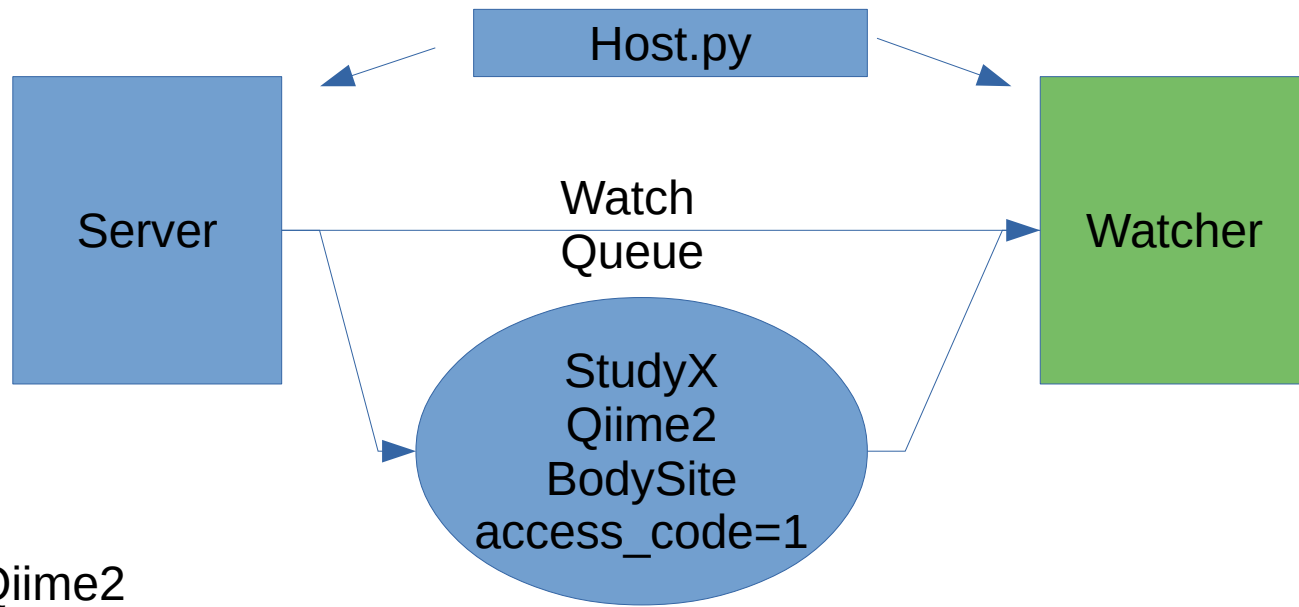
- Creates a Qiime2 (Tool) process
- Gives it the analysis info





Qiime2

- Creates a jobscript
- Saves file locations to Doc
- Note: Files do not yet exist on disk**
- Submits the jobscript
- Waits on completion
- Upon completion sends email
- Exits

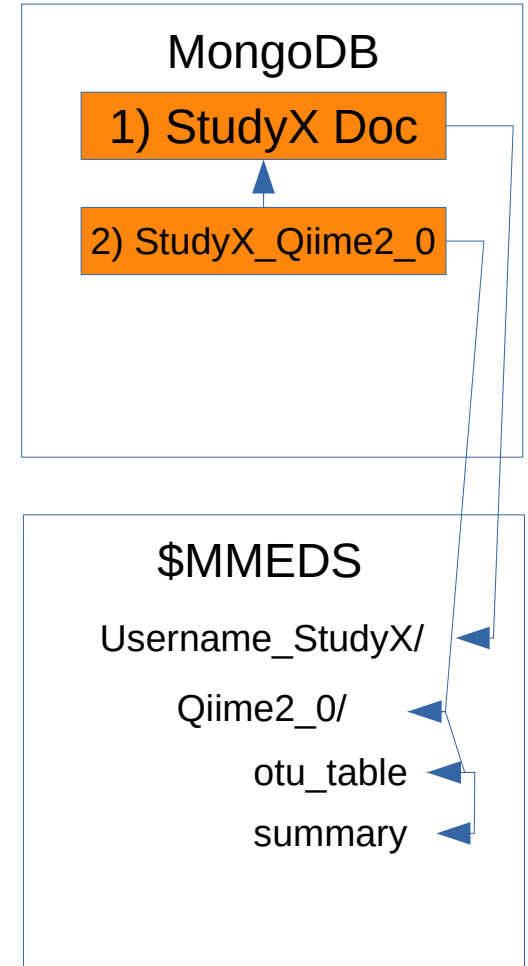


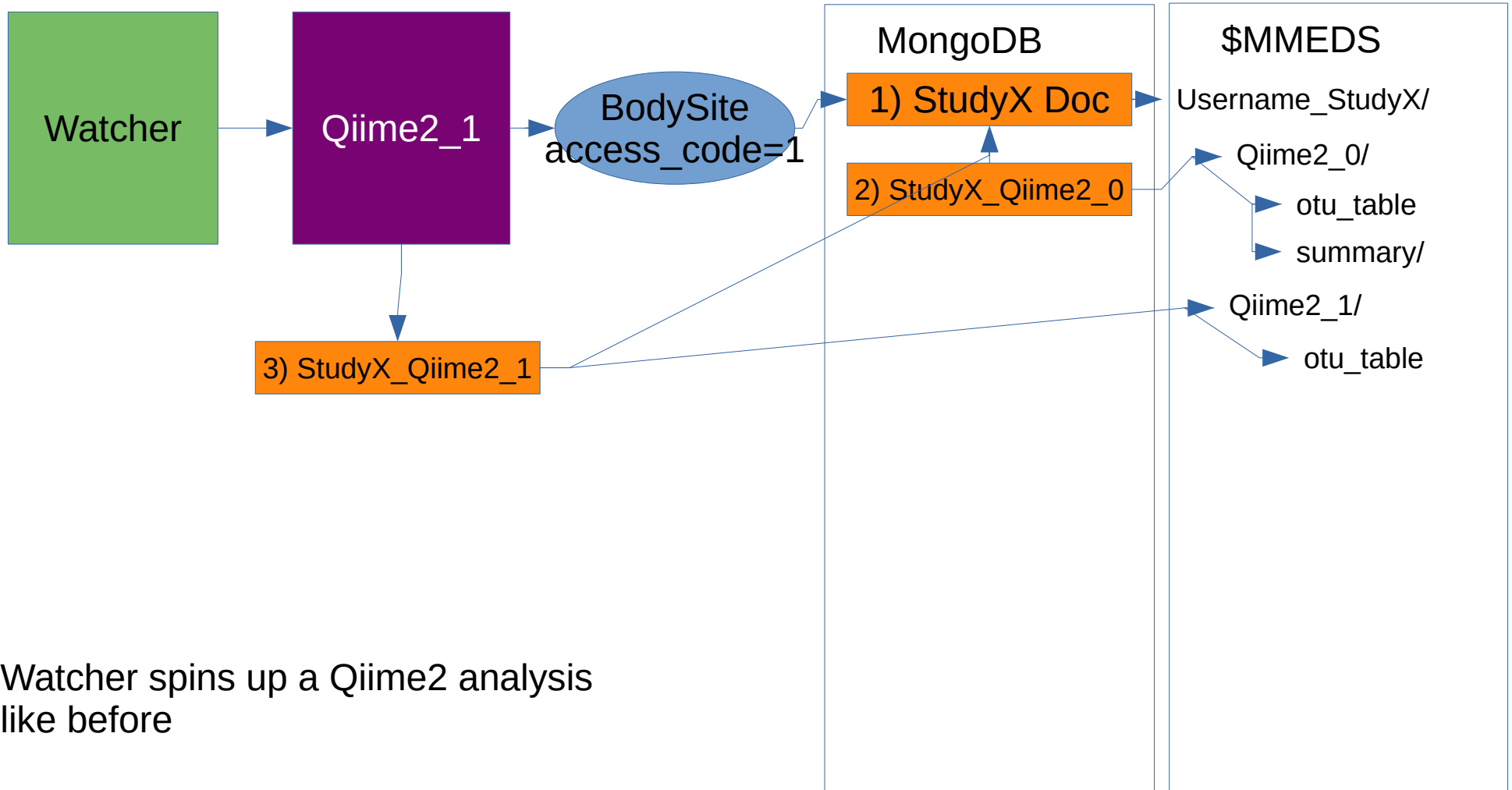
Qiime2

- User requests another analysis
- This time with a subset analysis

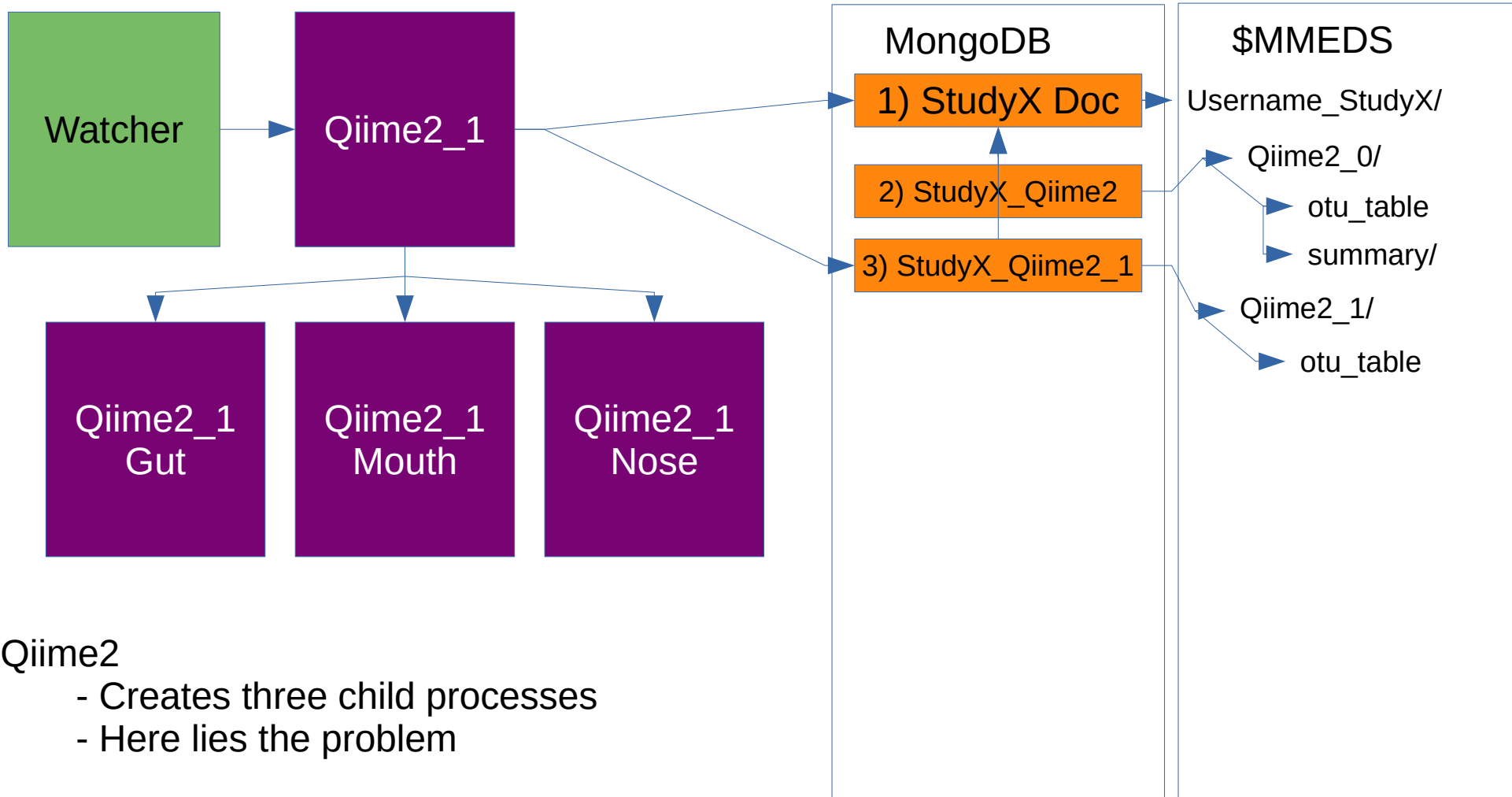
Subset Analysis Definition:

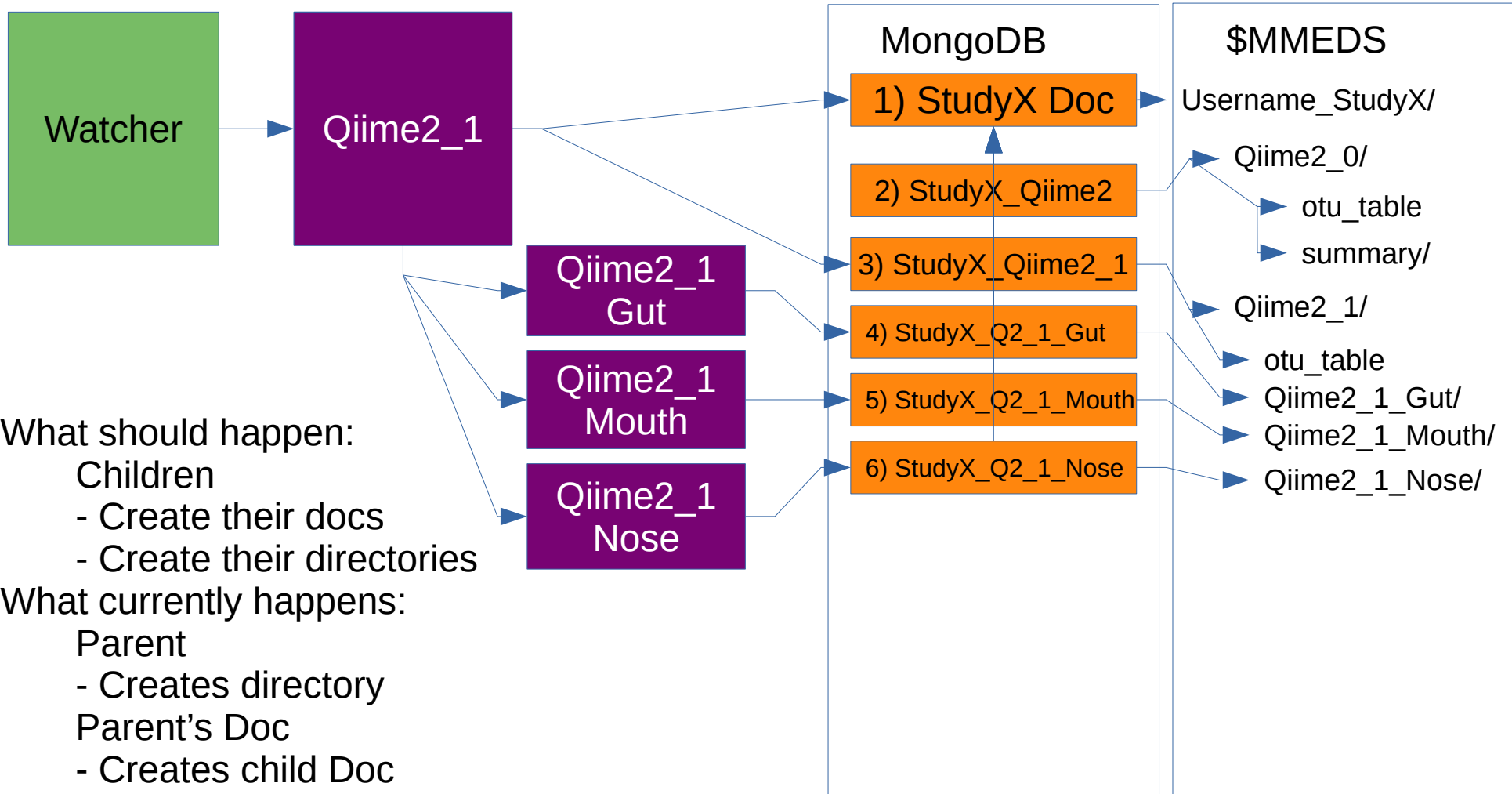
- An analysis performed on subsets of the samples available in a study. Separated by the value in some column (Body Site in this case)

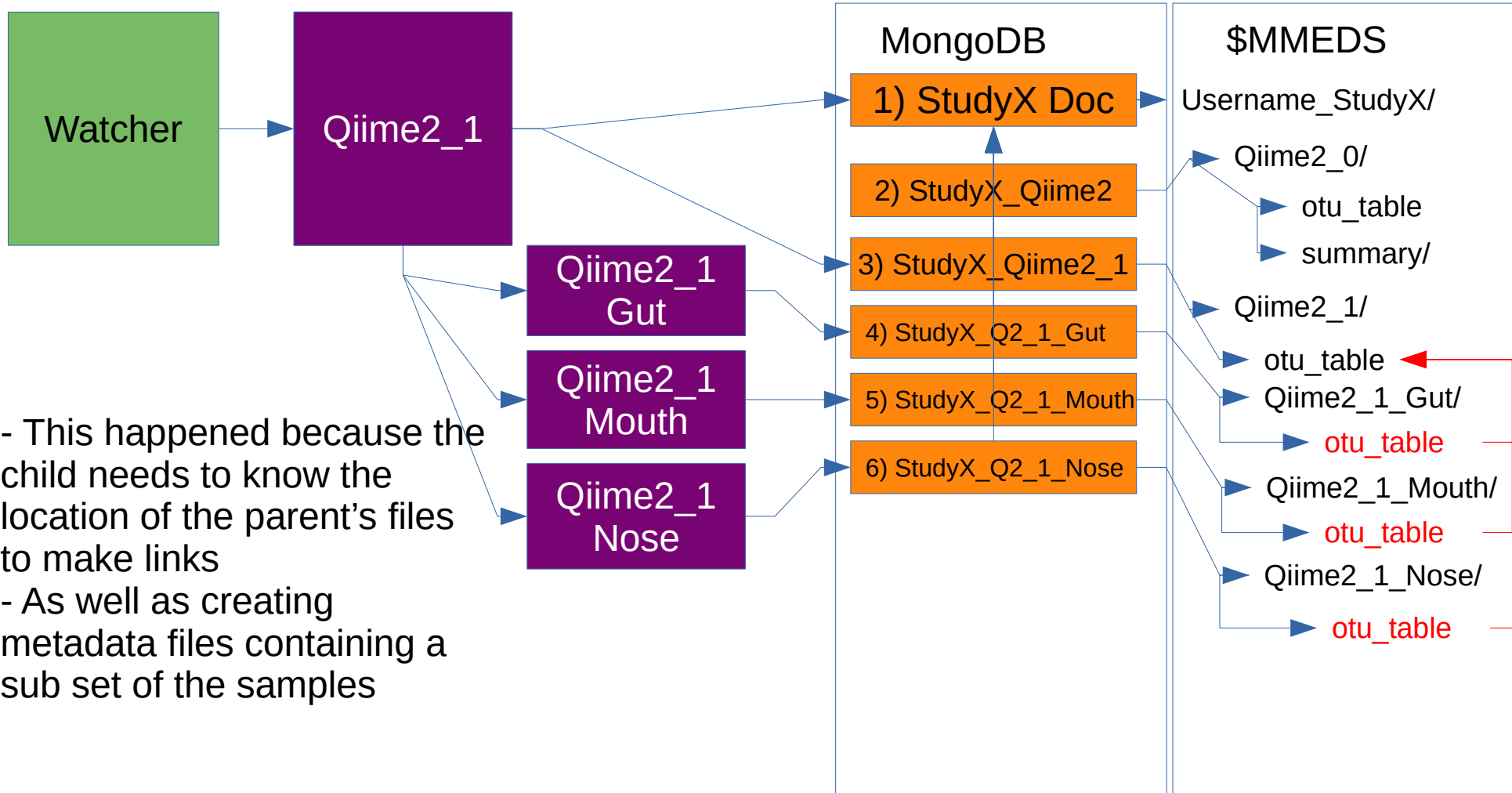




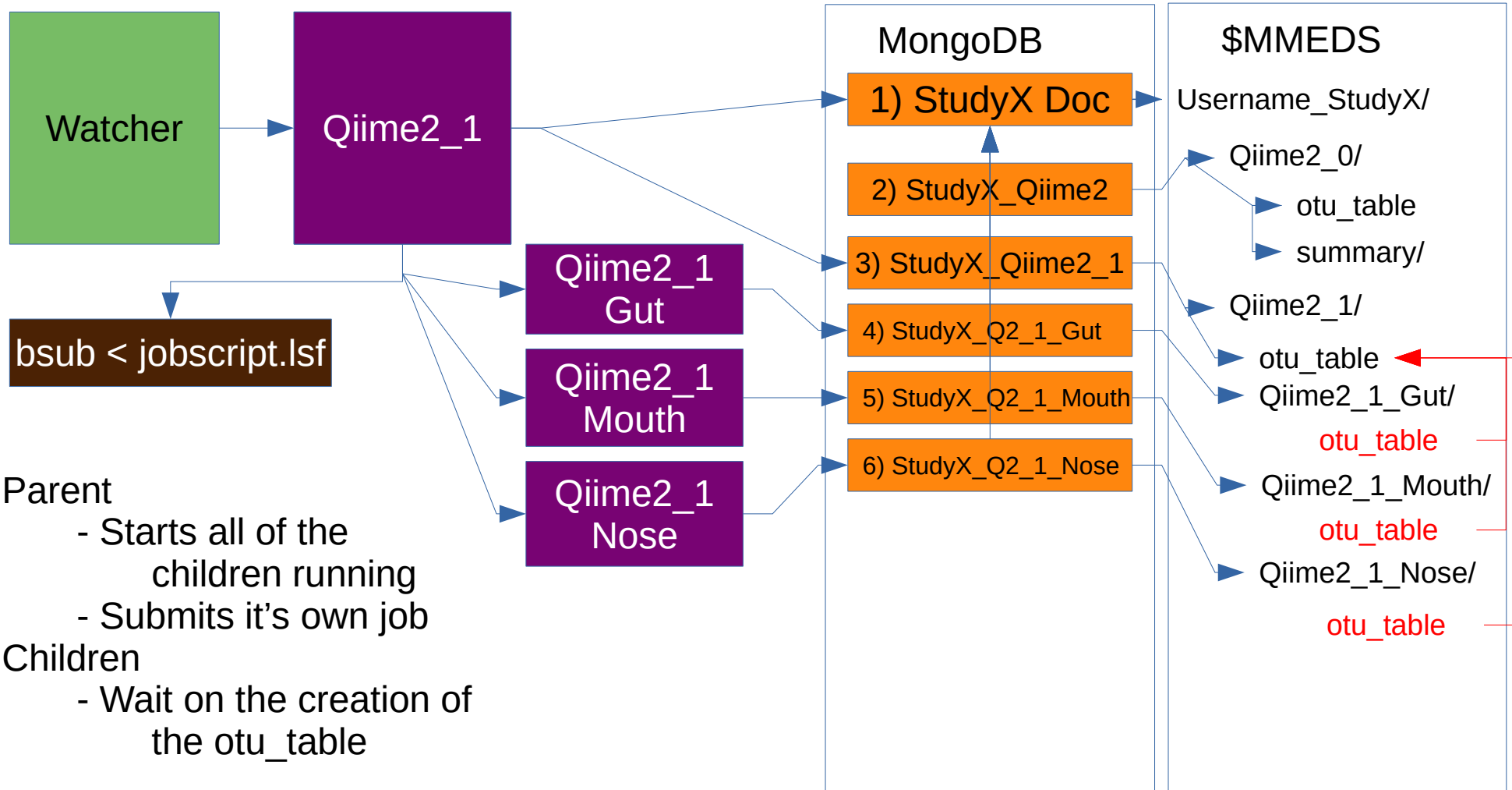
Watcher spins up a Qiime2 analysis
like before

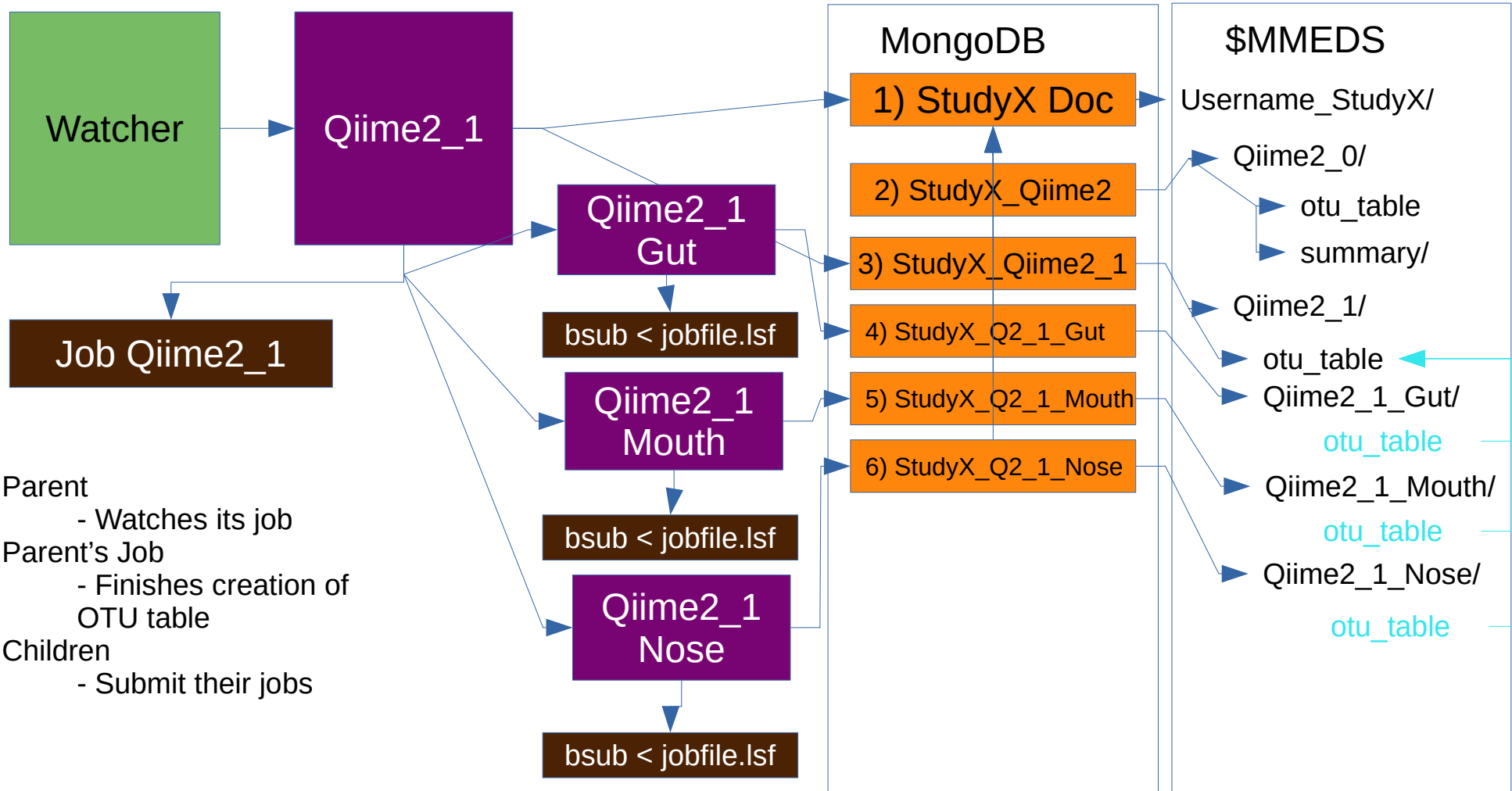


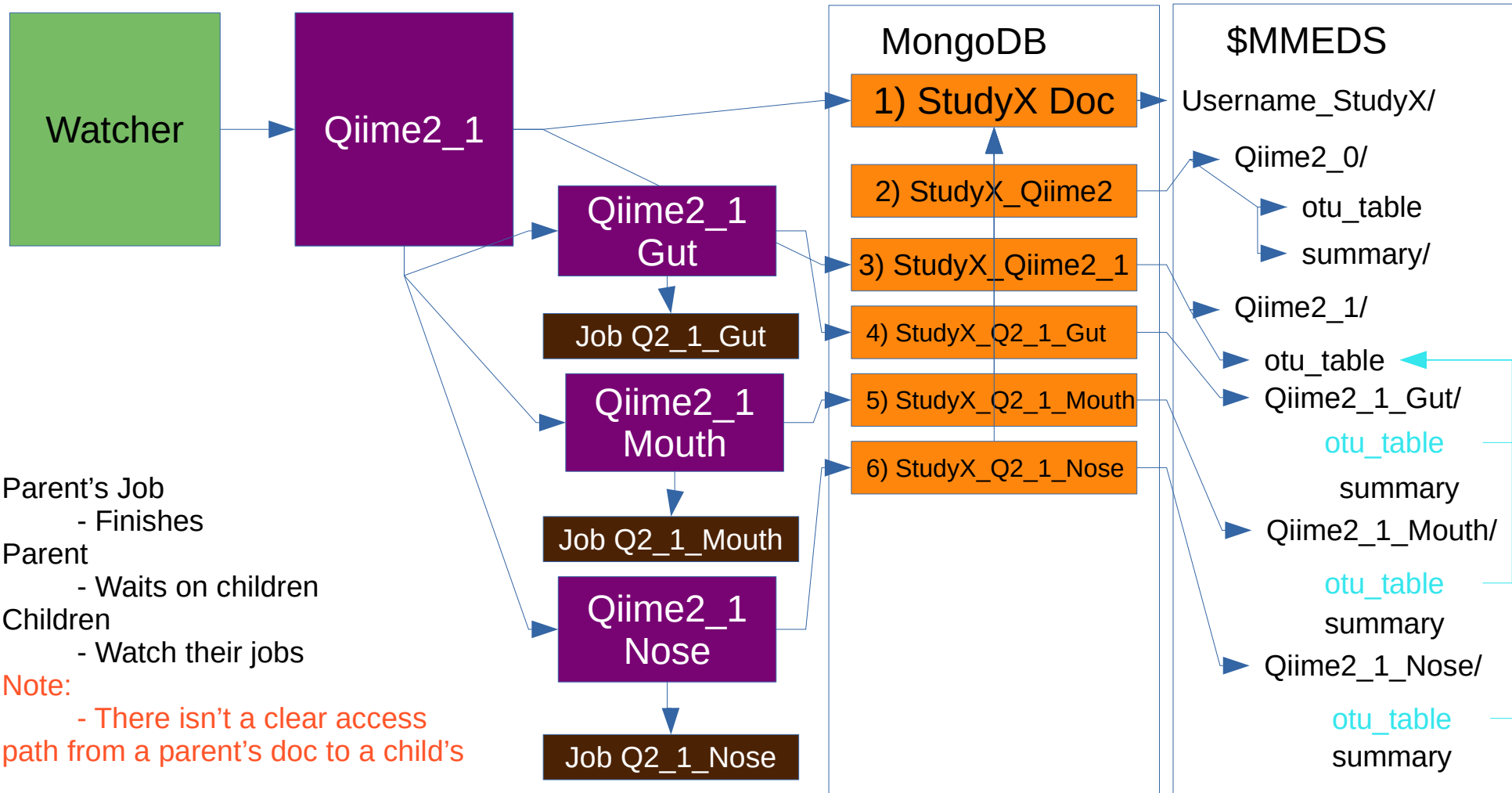


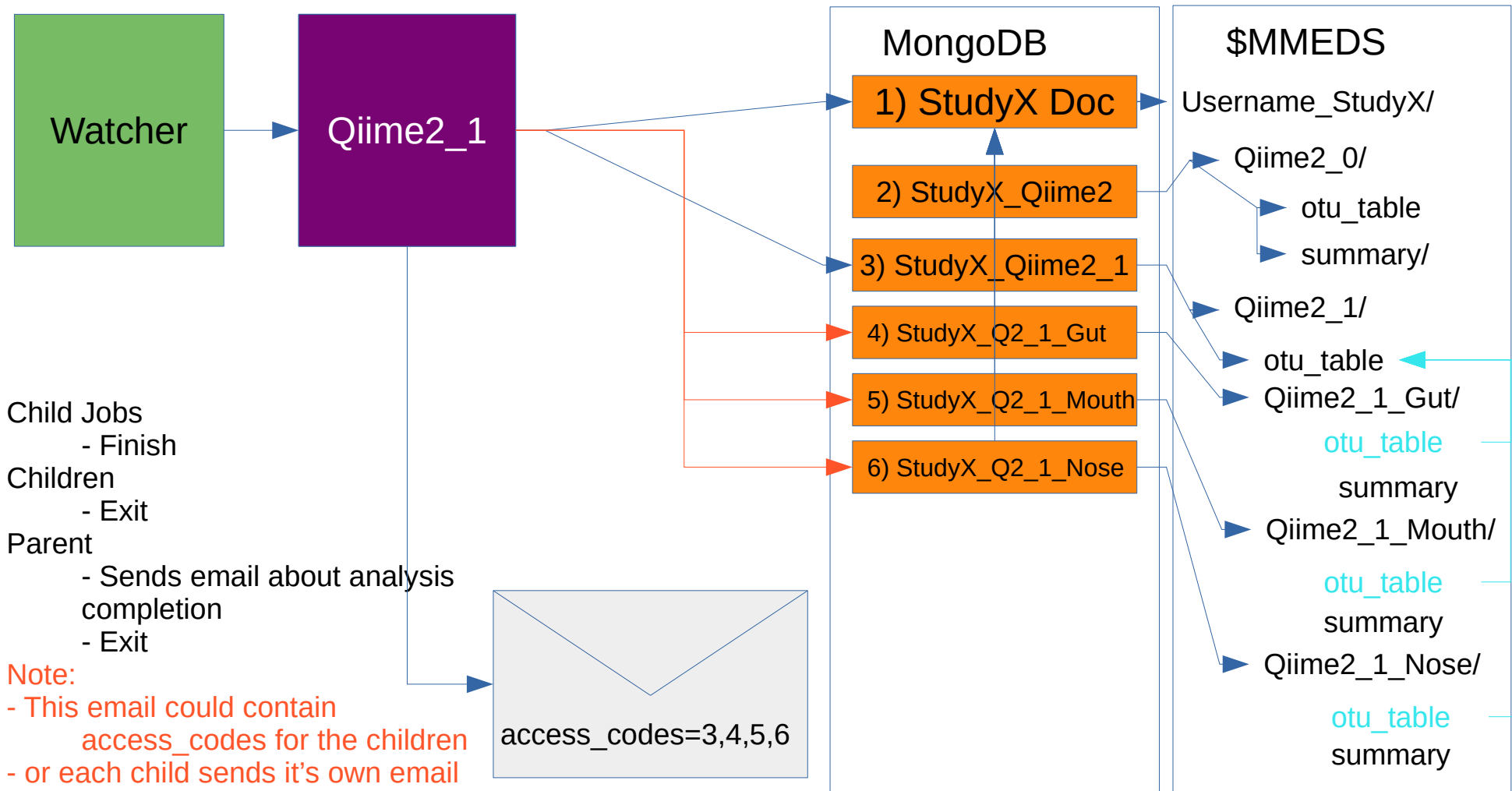


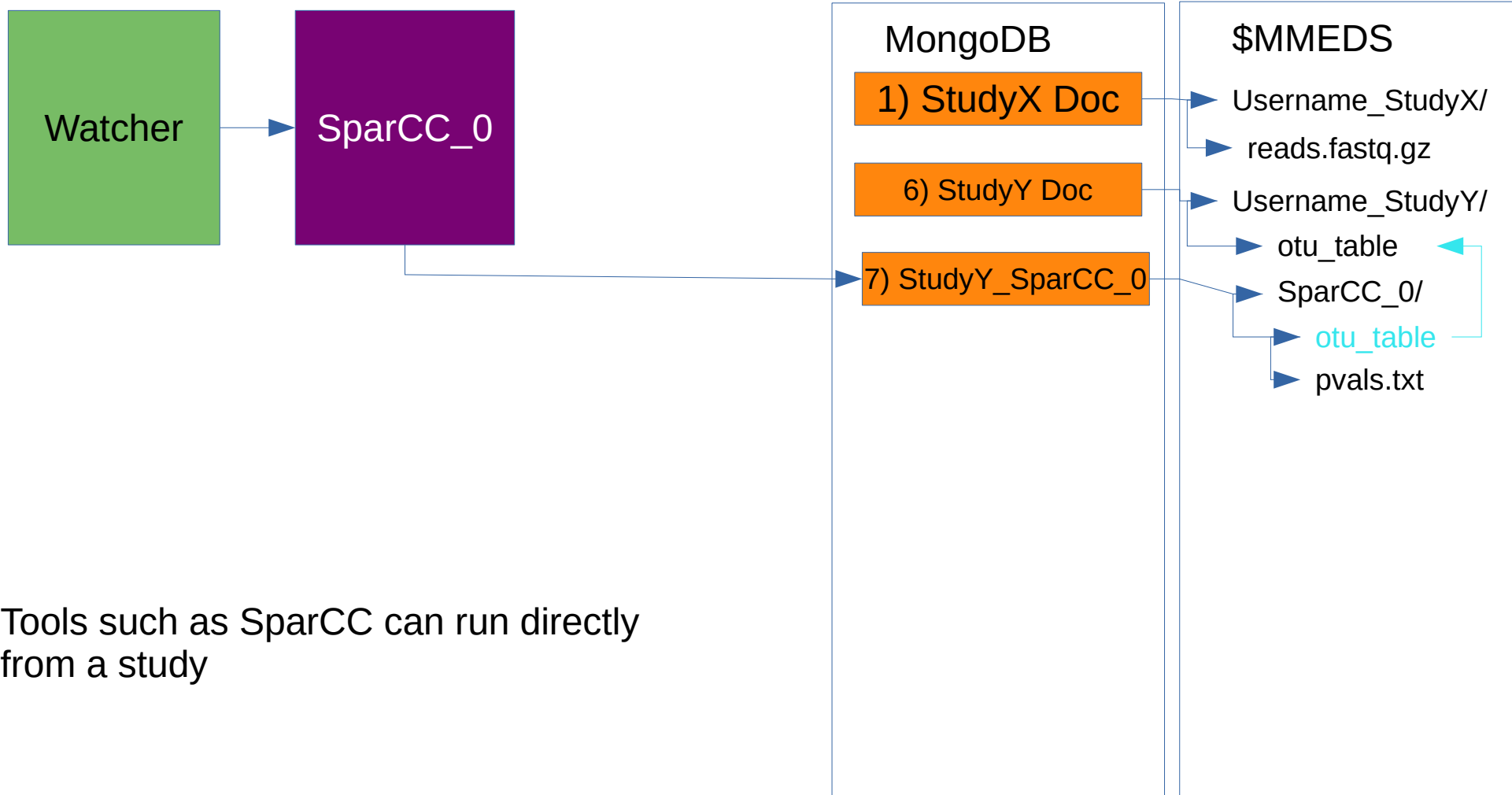
- This happened because the child needs to know the location of the parent's files to make links
- As well as creating metadata files containing a sub set of the samples



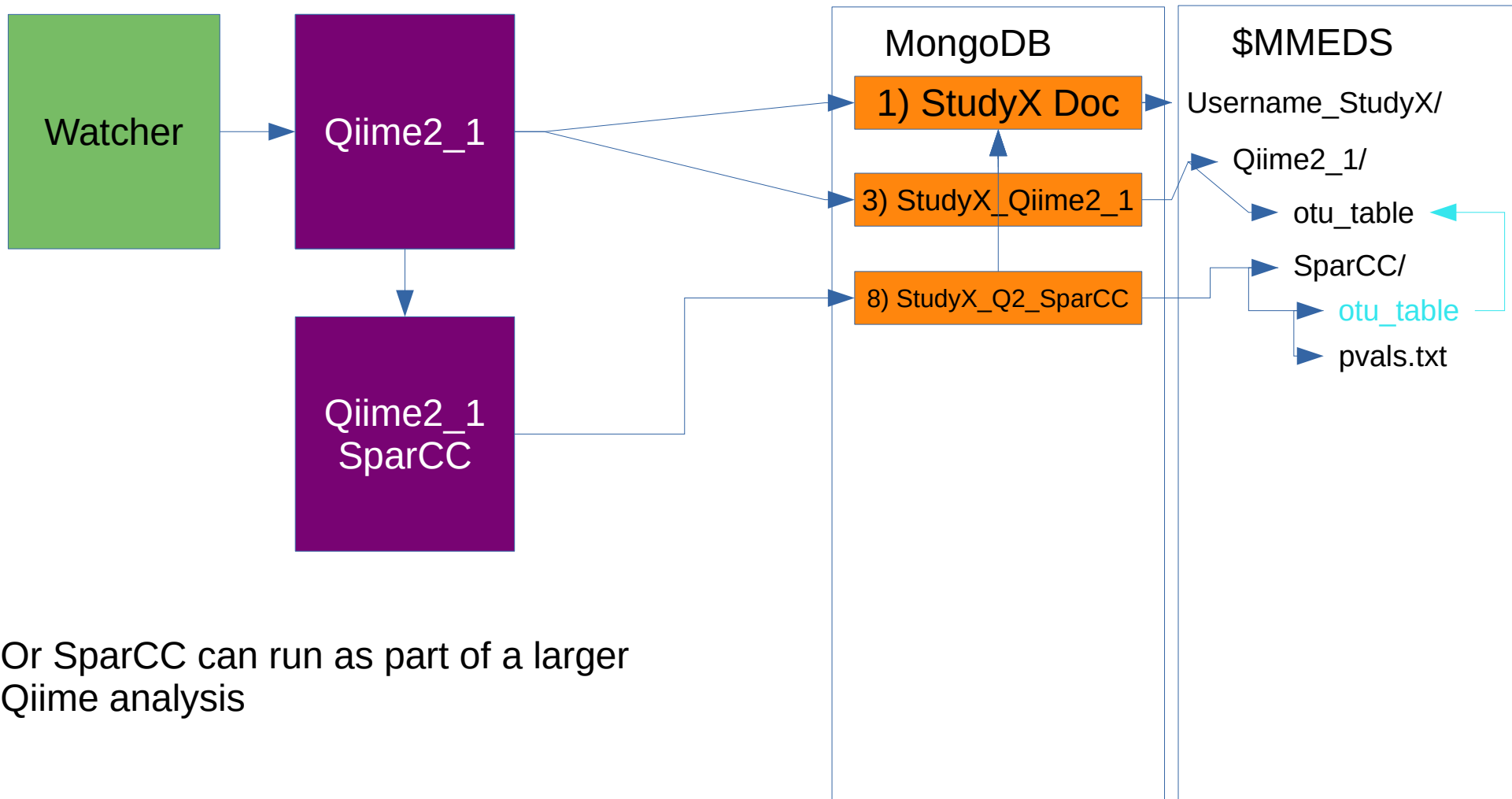






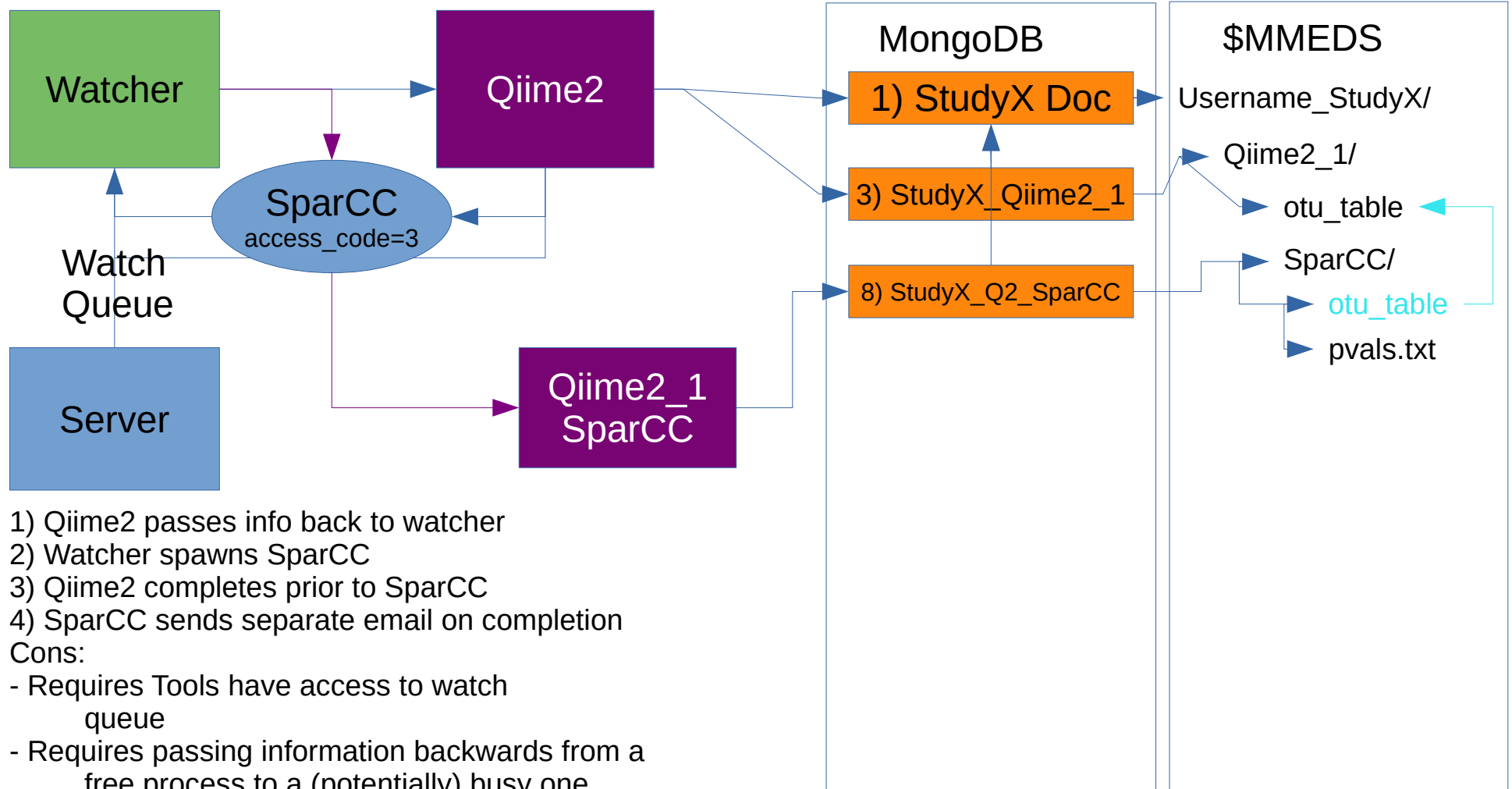


Tools such as SparCC can run directly from a study

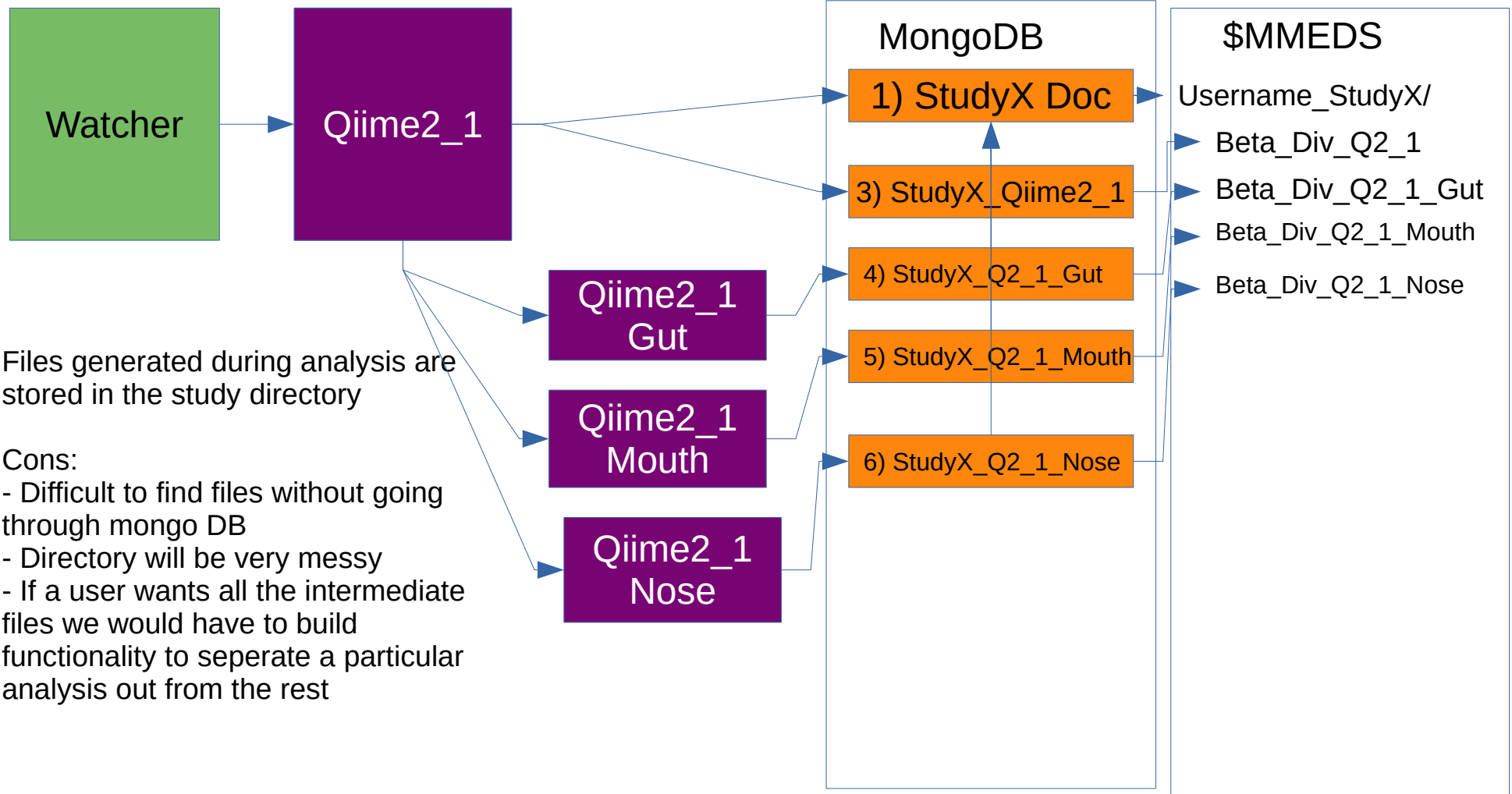


Or SparCC can run as part of a larger Qiime analysis

Alternatives



Alternatives



Alternatives

