

The first thing I did was reading the original codes to understand the idea. Then I thought this one should be easier since I already has the previous experience. At the beginning, I thought I don't need the hashmap I used in the previous one. The reason is that both the FTPClient and the FTPServer stop automatically when the file is sent successfully. But after talking with Ali, I realized that I need to consider a more general senario other than this specific one. So we still need to use the hashmap. In order to do this I made a little change to both FTPClient and FTPServer's codes so that the requests and responses in a conversation has the same id. Another difference is that it has three different messages in this example. Each message may also have different status. So in the aspect we need to make a little change to make sure we record the time only when the message we are tracking is sent. Similarly, we record the time only when the sending process is completed. But I actually don't like this design, the reason is that the more I added to the aspect, the more it becomes hard code.