

CS 442 Project 3

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Implementation Details:

In this Project, we have implemented the totally ordered broadcast by using the “another algorithm [reference 4]” in the slide-set (pages 6-11). First, we have written a Process class that extends python’s process class. We have implemented this class so that we can implement the algorithm. In order to implement multi-process communication, we have used publish and subscribe architecture of RabbitMQ and pika. We established a pika connection and created a channel from that. Also, each process has a separate queue related to their self-assigned pid. In that way, each process binds to the other processes queues, and broadcast the timestamp values accordingly.