Test output:

Program output locally:

Program output with local docker instance:

Program output with AWS hosted application:

Replica recovery:

lillis@DESKTOP-1H3O3N6:/mnt/c/Users/willl/source/repos/spring23-lab-3-pshekar-and-wlillis/src/order$.
/start_order_service.sh
Starting order service replica #0: 127.0.0.1:50054
Starting order service replica #1: 127.0.0.1:50055
Starting order service replica #2: 127.0.0.1:50056
lillis@DESKTOP-1H3O3N6:/mnt/c/Users/willl/source/repos/spring23-lab-3-pshekar-and-wlillis/src/order$ P
revious transaction log found, starting with Transaction ID #171
Previous transaction log found, starting with Transaction ID #171
Order gRPC starting (127.0.0.1:50054)
Order gRPC starting (127.0.0.1:50055)
Previous transaction log found, starting with Transaction ID #171
Order gRPC starting (127.0.0.1:50056)

lillis@DESKTOP-1H3O3N6:/mnt/c/Users/willl/source/repos/spring23-lab-3-pshekar-and-wlillis/src/catalog$.
./run_catalog_service.sh
Catalog gRPC starting

lillis@DESKTOP-1H3O3N6:/mnt/c/Users/willl/source/repos/spring23-lab-3-pshekar-and-wlillis/src/front-en
d$ ./run_front-end_service.sh
Selected 50056 as the order service leader
Informed replica 50054 of the leader replica (50056)
Informed replica 50055 of the leader replica (50056)
Informed replica 50056 of the leader replica (50056)
 * Serving Flask app 'frontend'
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI
server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit

lillis@DESKTOP-1H3O3N6:/mnt/c/Users/willl/source/repos/spring23-lab-3-pshekar-and-wlillis/src/order$.
lillis@DESKTOP-1H3O3N6:/mnt/c/Users/willl/source/repos/spring23-lab-3-pshekar-and-wlillis/src/order$.
/clean_by_port.sh 50054
50054: Killing process with pid 19848...Success
lillis@DESKTOP-1H3O3N6:/mnt/c/Users/willl/source/repos/spring23-lab-3-pshekar-and-wlillis/src/order$.
/restart_order_replica.sh
Restarting order service replica: 127.0.0.1:50054
lillis@DESKTOP-1H3O3N6:/mnt/c/Users/willl/source/repos/spring23-lab-3-pshekar-and-wlillis/src/order$ P
revious transaction log found, starting with Transaction ID #171
Order gRPC starting (127.0.0.1:50054)
Successfully recovered the transaction log!