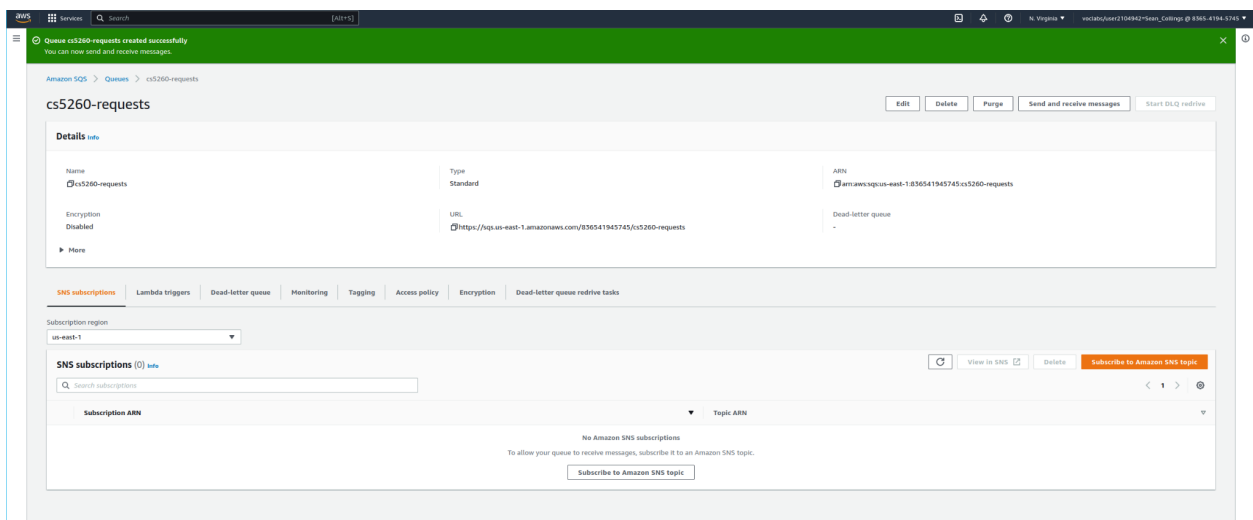


Questions

1. Because it is a standard queue, there is no guarantee that ordering is preserved, so an update or delete request may occur before it's related creation event.
2. If your application cannot rely on any expected ordering, it needs to be resilient to all different orderings. This means it needs to be either designed to handle when an attempted request fails, or some way to verify that the request they're about to make is valid

Snapshots



```
12:07:06.231 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Delete request
12:07:06.402 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:06.570 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:06.737 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:06.908 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:07.074 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:07.256 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:07.422 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Delete request
12:07:07.596 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:07.764 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:07.932 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:08.111 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:08.285 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:08.454 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:08.628 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:08.800 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:08.968 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:09.149 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:09.314 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:09.486 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:09.682 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:09.855 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:10.023 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:10.191 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Delete request
12:07:10.378 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:10.548 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:10.722 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:10.892 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:11.107 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:11.276 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:11.446 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:11.624 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:12.006 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Delete request
12:07:12.171 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:12.345 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:12.516 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:12.688 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:12.848 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:13.015 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:13.182 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:13.422 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:13.594 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:13.762 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:13.927 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:14.092 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:14.256 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:14.427 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:14.595 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:14.762 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request
12:07:14.992 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate an Update request
12:07:15.157 [Thread-1] INFO edu.usu.cs5260.producer.RequestGenerator - Generate a Create request

school/cs5260/hw3 on v main [1]
^C
```

```
I, [2022-11-08T12:07:14.256004 #464993] INFO -- : Process update request 6919edab-8227-4a14-92d9-eded4188016
I, [2022-11-08T12:07:14.399307 #464993] INFO -- : Deleting request(s): 6919edab-8227-4a14-92d9-eded4188016
I, [2022-11-08T12:07:14.403455 #464993] INFO -- : Process create request a6cf3a9e-4d44-4654-9714-6699c3f5dec0
I, [2022-11-08T12:07:14.610383 #464993] INFO -- : Deleting request(s): a6cf3a9e-4d44-4654-9714-6699c3f5dec0
I, [2022-11-08T12:07:14.684286 #464993] INFO -- : Process create request 3cf9fe4f-3f23-4ff2-b486-38b79a3e62b2
I, [2022-11-08T12:07:14.849606 #464993] INFO -- : Deleting request(s): 3cf9fe4f-3f23-4ff2-b486-38b79a3e62b2
I, [2022-11-08T12:07:14.914926 #464993] INFO -- : Process create request 3a8699f4-d723-4f8f-b92f-d6da4519f884
I, [2022-11-08T12:07:15.060504 #464993] INFO -- : Deleting request(s): 3a8699f4-d723-4f8f-b92f-d6da4519f884
I, [2022-11-08T12:07:15.128669 #464993] INFO -- : Process create request 2bb69514-d531-4794-921b-c7f6c1ca1315
I, [2022-11-08T12:07:15.267881 #464993] INFO -- : Deleting request(s): 2bb69514-d531-4794-921b-c7f6c1ca1315
I, [2022-11-08T12:07:15.333868 #464993] INFO -- : Process create request 168eddbd-4bdd-4c3c-beac-d266ecff7723
I, [2022-11-08T12:07:15.475501 #464993] INFO -- : Deleting request(s): 168eddbd-4bdd-4c3c-beac-d266ecff7723
I, [2022-11-08T12:07:15.638427 #464993] INFO -- : Received request: a8863a29-2318-4bc5-9ebf-ffa72fe089ca
I, [2022-11-08T12:07:15.631090 #464993] INFO -- : Received request: 4f051d0f-5881-43d1-abaa-08db86f622c6
I, [2022-11-08T12:07:15.631719 #464993] INFO -- : Received request: e54c7ea-9a75-42c3-9006-da02bfc36f0
I, [2022-11-08T12:07:15.632153 #464993] INFO -- : Received request: c9b678a8-226d-4781-a48a-3b3bd5345df
I, [2022-11-08T12:07:15.632496 #464993] INFO -- : Received request: fada081b-7dac-41a6-9bb3-ec685cf247ce
I, [2022-11-08T12:07:15.632516 #464993] INFO -- : Process create request fada081b-7dac-41a6-9bb3-ec685cf247ce
I, [2022-11-08T12:07:15.785422 #464993] INFO -- : Deleting request(s): fada081b-7dac-41a6-9bb3-ec685cf247ce
I, [2022-11-08T12:07:15.848273 #464993] INFO -- : Process create request c9b678a8-226d-4781-a48a-3b3bd5345df
I, [2022-11-08T12:07:15.997380 #464993] INFO -- : Deleting request(s): c9b678a8-226d-4781-a48a-3b3bd5345df
I, [2022-11-08T12:07:16.059864 #464993] INFO -- : Process update request e54c7ea-9a75-42c3-9006-da02bfc36f0
I, [2022-11-08T12:07:16.202542 #464993] INFO -- : Deleting request(s): e54c7ea-9a75-42c3-9006-da02bfc36f0
I, [2022-11-08T12:07:16.271932 #464993] INFO -- : Process update request 4f051d0f-5881-43d1-abaa-08db86f622c6
I, [2022-11-08T12:07:16.456049 #464993] INFO -- : Deleting request(s): 4f051d0f-5881-43d1-abaa-08db86f622c6
I, [2022-11-08T12:07:16.534086 #464993] INFO -- : Process create request a8863a29-2318-4bc5-9ebf-ffa72fe089ca

I, [2022-11-08T12:07:14.678759 #464860] INFO -- : Process create request 77a6ccfd-658e-46ec-81ff-e42172b4dc5
I, [2022-11-08T12:07:14.824438 #464860] INFO -- : Deleting request(s): 77a6ccfd-658e-46ec-81ff-e42172b4dc5
I, [2022-11-08T12:07:14.886166 #464860] INFO -- : Process create request f8cc2c5c-ab4f-46cc-8313-e61fc0d47fcc
I, [2022-11-08T12:07:15.034429 #464860] INFO -- : Deleting request(s): f8cc2c5c-ab4f-46cc-8313-e61fc0d47fcc
I, [2022-11-08T12:07:15.094401 #464860] INFO -- : Process create request ed80812d-e094-4b2c-9243-7a7924cd59f5
I, [2022-11-08T12:07:15.242930 #464860] INFO -- : Deleting request(s): ed80812d-e094-4b2c-9243-7a7924cd59f5
I, [2022-11-08T12:07:15.465753 #464860] INFO -- : Received request: 801a3692-cb97-458b-a428-d3a302f9e5be
I, [2022-11-08T12:07:15.465798 #464860] INFO -- : Process create request 801a3692-cb97-458b-a428-d3a302f9e5be
I, [2022-11-08T12:07:15.613609 #464860] INFO -- : Deleting request(s): 801a3692-cb97-458b-a428-d3a302f9e5be
I, [2022-11-08T12:07:15.769845 #464860] INFO -- : Received request: 228fe405-c014-45a0-afdb-e56ab93ce10
I, [2022-11-08T12:07:15.770244 #464860] INFO -- : Received request: ce33b0b6-fbe2-4aba-af6c-7bb8208ad264
I, [2022-11-08T12:07:15.770264 #464860] INFO -- : Process update request ce33b0b6-fbe2-4aba-af6c-7bb8208ad264
I, [2022-11-08T12:07:15.916776 #464860] INFO -- : Deleting request(s): ce33b0b6-fbe2-4aba-af6c-7bb8208ad264
I, [2022-11-08T12:07:15.988622 #464860] INFO -- : Process create request 228fe405-c014-45a0-afdb-e56ab93ce10
I, [2022-11-08T12:07:16.133433 #464860] INFO -- : Deleting request(s): 228fe405-c014-45a0-afdb-e56ab93ce10
I, [2022-11-08T12:07:16.307912 #464860] INFO -- : Received request: 2487af3c-a3e3-4466-bc52-51892c5848fa
I, [2022-11-08T12:07:16.388572 #464860] INFO -- : Received request: 3365f75c-602d-47c3-8104-d4385d129198
I, [2022-11-08T12:07:16.389206 #464860] INFO -- : Received request: 80a32bc9-603c-42b4-b02c-c3a6a924ab6
I, [2022-11-08T12:07:16.389994 #464860] INFO -- : Received request: 48ea82d5-64af-418c-9b5c-9b0fe04bb605
I, [2022-11-08T12:07:16.310058 #464860] INFO -- : Process update request 48ea82d5-64af-418c-9b5c-9b0fe04bb605
I, [2022-11-08T12:07:16.459349 #464860] INFO -- : Deleting request(s): 48ea82d5-64af-418c-9b5c-9b0fe04bb605
I, [2022-11-08T12:07:16.521492 #464860] INFO -- : Process update request 80a32bc9-603c-42b4-b02c-c3a6a924ab6
I, [2022-11-08T12:07:16.672836 #464860] INFO -- : Deleting request(s): 80a32bc9-603c-42b4-b02c-c3a6a924ab6
I, [2022-11-08T12:07:16.735523 #464860] INFO -- : Process create request 3365f75c-602d-47c3-8104-d4385d129198
I, [2022-11-08T12:07:16.888738 #464860] INFO -- : Deleting request(s): 3365f75c-602d-47c3-8104-d4385d129198
I, [2022-11-08T12:07:16.964360 #464860] INFO -- : Process delete request 2487af3c-a3e3-4466-bc52-51892c5848fa
```

```
commit f5af213589a78baa1303af503e1ca64ecdb54af8 (HEAD -> main, origin/main)
```

```
Author: Sean Collings <seanrcollings@gmail.com>
```

```
Date: Tue Nov 8 13:26:04 2022 -0700
```

```
added specs for SQSRetreiver
```

```
commit 7d7d015b050983cec6246eaf8c1215d01e71d75e
```

```
Author: Sean Collings <seanrcollings@gmail.com>
```

```
Date: Tue Nov 8 13:25:51 2022 -0700
```

```
random cleanup
```

```
commit eb3252b5df6f3bd28fbc425bd3b6bd17eb02ef21
```

```
Author: Sean Collings <seanrcollings@gmail.com>
```

```
Date: Tue Nov 8 13:25:28 2022 -0700
```

```
Added Dockerfile
```

```
commit 52acfad55fe0bf7acee38ddeed5eb746951f873f
```

```
Author: Sean Collings <seanrcollings@gmail.com>
```

```
Date: Tue Nov 8 12:21:56 2022 -0700
```

```
implmented delete requests
```

```
commit dc94f096165e144bce74e1f116287c36c47f1073
```

```
Author: Sean Collings <seanrcollings@gmail.com>
```

```
Date: Tue Nov 8 12:20:21 2022 -0700
```

```
implemented update requests for s3 and dynamo
```

```
commit 981361e0acc352191f35e618bd1dc8a22d37a782
```

```
Author: Sean Collings <seanrcollings@gmail.com>
```

```
Date: Tue Nov 8 12:19:30 2022 -0700
```

```
implemented SQSRetreiver
```

```
commit 5497fa8ecf9c002b1d4851060340225dd2543132
```

```
Author: Sean Collings <seanrcollings@gmail.com>
```

```
Date: Tue Nov 8 12:17:02 2022 -0700
```

```
hw3 start
```

```
school/cs5268/hw3 on k mac [12]
$ docker run --env-file docker.env consumer:1.0
time="2022-11-08T12:41:20.675062733-07:00" level=info msg="loading plugin \\"io.containerd.event.v1.publisher\\"..." runtime=io.containerd.runc.v2 type=io.containerd.event.v1
time="2022-11-08T12:41:20.675103648-07:00" level=info msg="loading plugin \\"io.containerd.internal.v1.shutdown\\"..." runtime=io.containerd.runc.v2 type=io.containerd.internal.v1
time="2022-11-08T12:41:20.675111164-07:00" level=info msg="loading plugin \\"io.containerd.trttrpc.v1.task\\"..." runtime=io.containerd.runc.v2 type=io.containerd.trttrpc.v1
time="2022-11-08T12:41:20.675191261-07:00" level=info msg="starting signal loop" namespace=moby path=/run/docker/containerd/daemon/io.containerd.runtime.v2.task/moby/30ffca45912360910c1493eb3470ac1fe28d81ce32e86b9c2265a83be107694a pid=494116 runtime=io.containerd.runc.v2
I, [2022-11-08T19:41:30.134138 #1] INFO -- : Recieved request: fc815a36-9b59-4aa3-aa6-7a976dea037f
I, [2022-11-08T19:41:30.134203 #1] INFO -- : Process create request fc815a36-9b59-4aa3-aa6-7a976dea037f
I, [2022-11-08T19:41:30.569277 #1] INFO -- : Removing messages(s): fc815a36-9b59-4aa3-aa6-7a976dea037f
I, [2022-11-08T19:41:30.787405 #1] INFO -- : Recieved request: c1fa92b4-cc18-42d1-90d1-21b2e8ceedad
I, [2022-11-08T19:41:30.787469 #1] INFO -- : Process create request c1fa92b4-cc18-42d1-90d1-21b2e8ceedad
I, [2022-11-08T19:41:30.940528 #1] INFO -- : Removing messages(s): c1fa92b4-cc18-42d1-90d1-21b2e8ceedad
I, [2022-11-08T19:41:31.103409 #1] INFO -- : Recieved request: af7c746b-e93c-4ee4-ae9f-8449d4b7dbde
I, [2022-11-08T19:41:31.104312 #1] INFO -- : Recieved request: 851bfafe-831f-4c00-bf0d-f5ae11835bde
I, [2022-11-08T19:41:31.104364 #1] INFO -- : Process create request 851bfafe-831f-4c00-bf0d-f5ae11835bde
I, [2022-11-08T19:41:31.255210 #1] INFO -- : Removing messages(s): 851bfafe-831f-4c00-bf0d-f5ae11835bde
I, [2022-11-08T19:41:31.319504 #1] INFO -- : Process create request af7c746b-e93c-4ee4-ae9f-8449d4b7dbde
I, [2022-11-08T19:41:31.462003 #1] INFO -- : Removing messages(s): af7c746b-e93c-4ee4-ae9f-8449d4b7dbde
I, [2022-11-08T19:41:31.618561 #1] INFO -- : Recieved request: lcdf3cel-9f9b-4f1c-a5ae-4ddde0ae3a47
I, [2022-11-08T19:41:31.618625 #1] INFO -- : Process create request lcdf3cel-9f9b-4f1c-a5ae-4ddde0ae3a47
I, [2022-11-08T19:41:31.766586 #1] INFO -- : Removing messages(s): lcdf3cel-9f9b-4f1c-a5ae-4ddde0ae3a47
I, [2022-11-08T19:41:31.920956 #1] INFO -- : Recieved request: 627c391a-da85-40dc-8967-adc15cb0af84
I, [2022-11-08T19:41:31.921039 #1] INFO -- : Process create request 627c391a-da85-40dc-8967-adc15cb0af84
I, [2022-11-08T19:41:32.067362 #1] INFO -- : Removing messages(s): 627c391a-da85-40dc-8967-adc15cb0af84
I, [2022-11-08T19:41:32.229793 #1] INFO -- : Recieved request: 0a1360be-69c5-4d8a-9959-cc4ee6970c41
I, [2022-11-08T19:41:32.229832 #1] INFO -- : Process create request 0a1360be-69c5-4d8a-9959-cc4ee6970c41
I, [2022-11-08T19:41:32.374640 #1] INFO -- : Removing messages(s): 0a1360be-69c5-4d8a-9959-cc4ee6970c41
I, [2022-11-08T19:41:32.542867 #1] INFO -- : Recieved request: 7807feb1-0e18-4b3b-9a13-d1901dff40d
I, [2022-11-08T19:41:32.542919 #1] INFO -- : Process create request 7807feb1-0e18-4b3b-9a13-d1901dff40d
I, [2022-11-08T19:41:32.691791 #1] INFO -- : Removing messages(s): 7807feb1-0e18-4b3b-9a13-d1901dff40d
I, [2022-11-08T19:41:32.849707 #1] INFO -- : Recieved request: 5736a793-6584-4831-alc9-749b56301baa
I, [2022-11-08T19:41:32.850984 #1] INFO -- : Recieved request: 6d917b8e-aa4d-49ce-8539-37c2c8606aa7
I, [2022-11-08T19:41:32.851039 #1] INFO -- : Process create request 6d917b8e-aa4d-49ce-8539-37c2c8606aa7
I, [2022-11-08T19:41:32.900191 #1] INFO -- : Removing messages(s): 6d917b8e-aa4d-49ce-8539-37c2c8606aa7
I, [2022-11-08T19:41:32.076222 #1] INFO -- : Process create request 5736a793-6584-4831-alc9-749b56301baa
I, [2022-11-08T19:41:32.222761 #1] INFO -- : Removing messages(s): 5736a793-6584-4831-alc9-749b56301baa
I, [2022-11-08T19:41:32.380620 #1] INFO -- : Recieved request: e6ad26a5-70fe-4ff6-afbe-e564966b6689
I, [2022-11-08T19:41:32.381089 #1] INFO -- : Recieved request: 94a15104-3c6a-4988-a471-ede72e74163d
I, [2022-11-08T19:41:32.381111 #1] INFO -- : Process create request 94a15104-3c6a-4988-a471-ede72e74163d
I, [2022-11-08T19:41:32.550596 #1] INFO -- : Removing messages(s): 94a15104-3c6a-4988-a471-ede72e74163d
I, [2022-11-08T19:41:32.613146 #1] INFO -- : Process create request e6ad26a5-70fe-4ff6-afbe-e564966b6689
I, [2022-11-08T19:41:32.761612 #1] INFO -- : Removing messages(s): e6ad26a5-70fe-4ff6-afbe-e564966b6689
I, [2022-11-08T19:41:32.913903 #1] INFO -- : Recieved request: 32a326c8-3839-45d2-860d-89db09104c4d
I, [2022-11-08T19:41:32.914773 #1] INFO -- : Recieved request: 503fee47-f1ca-4888-9467-0c0dc545dfd2
I, [2022-11-08T19:41:32.914852 #1] INFO -- : Process create request 503fee47-f1ca-4888-9467-0c0dc545dfd2
I, [2022-11-08T19:41:34.065996 #1] INFO -- : Removing messages(s): 503fee47-f1ca-4888-9467-0c0dc545dfd2
```

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voclabs/user2104942=Sean_Collings @ 8365-4194-5745

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cs5260

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