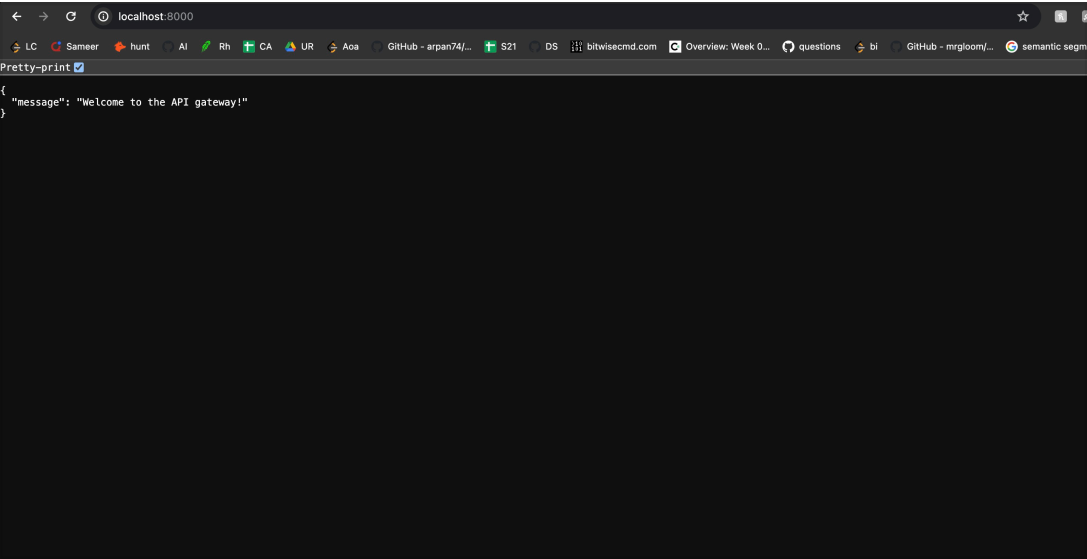
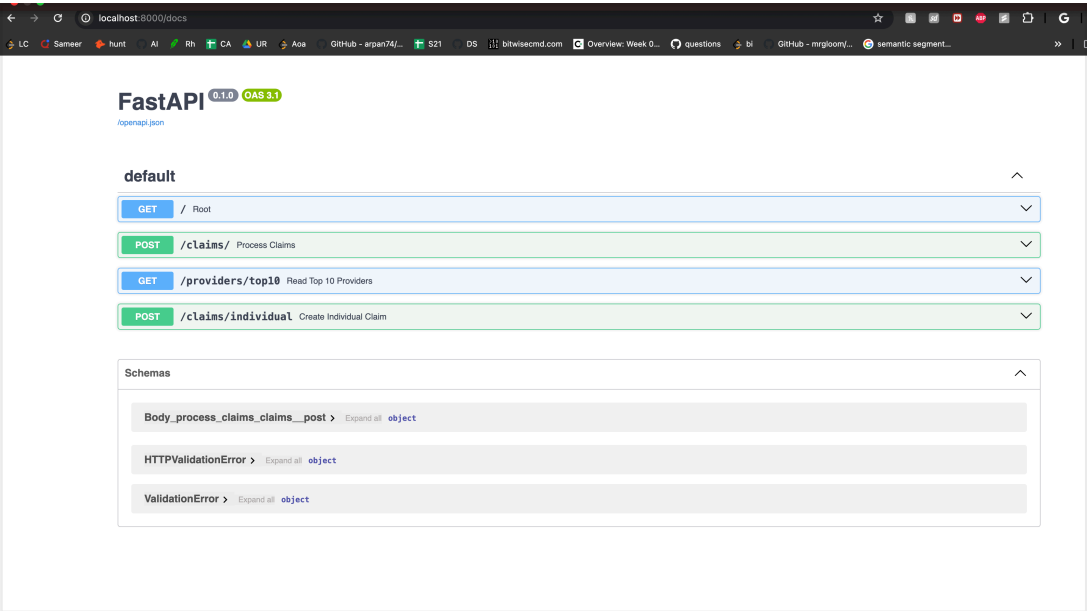


Images

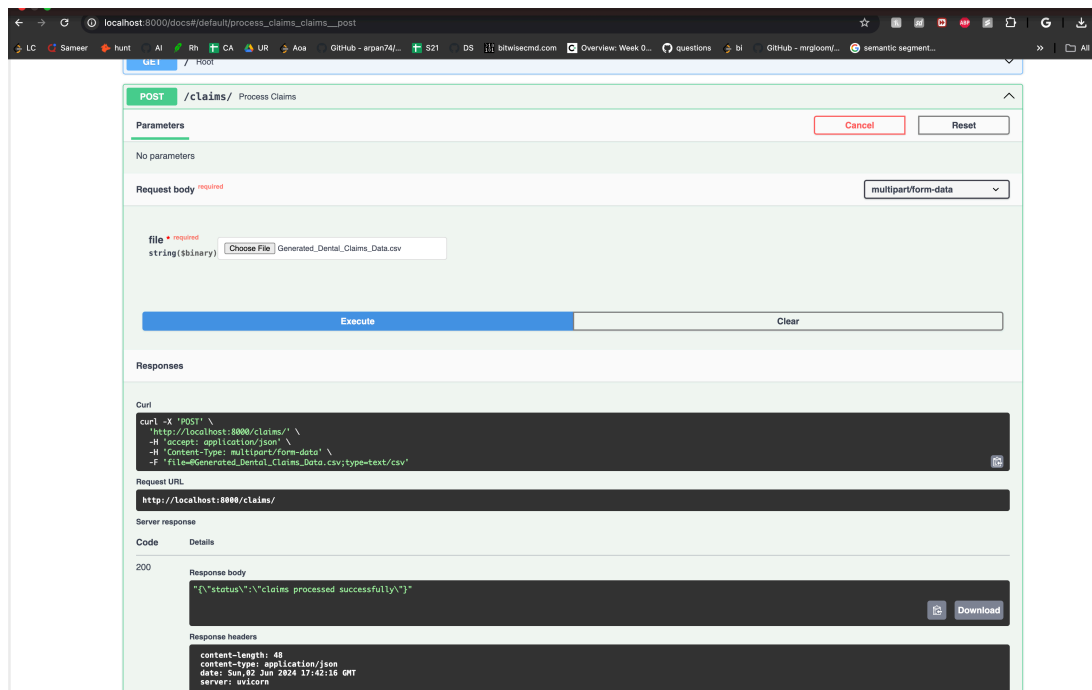
API gateway



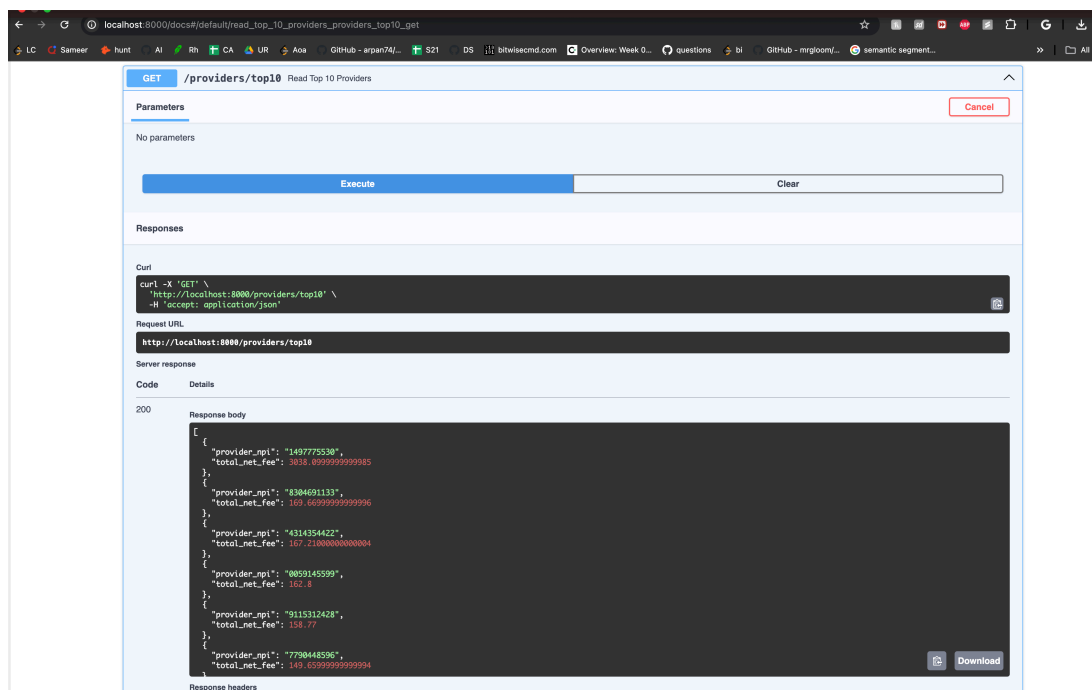
Claim prices service



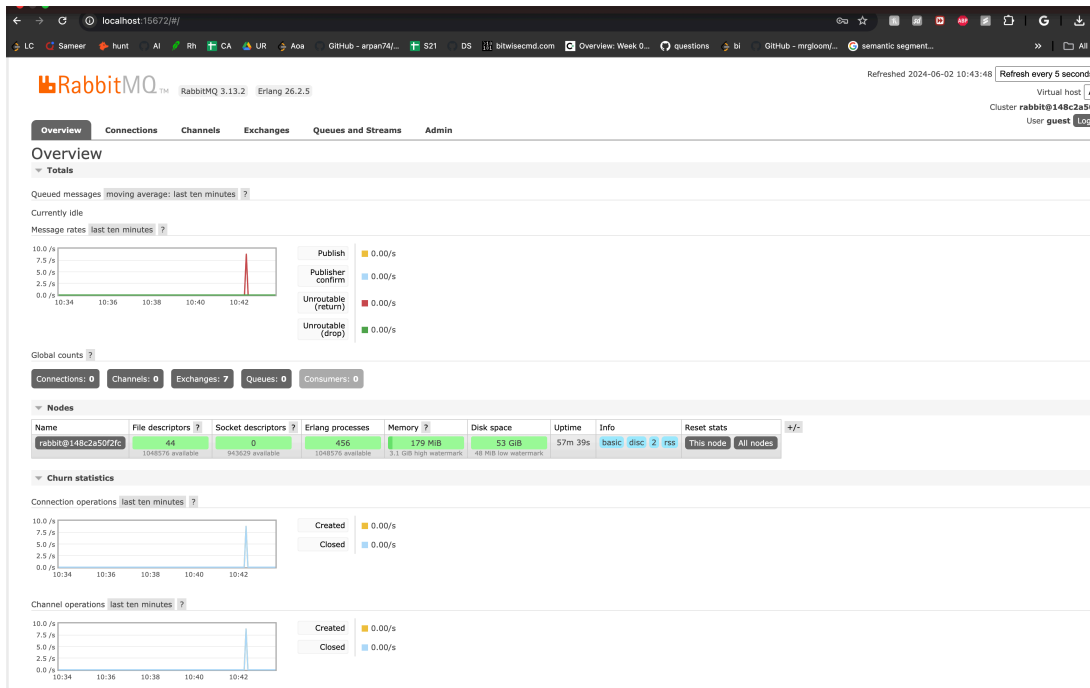
Claim process POST process claims



Claim process GET top 10 net fees



RABBITMQ dashboard to check traffic



Claim process able to push the message to rabbitMQ

```
Publishing claim data to RabbitMQ: {'claim_id': '4e2599d4-867a-438a-b8f7-baf4e4e335d3', 'provider_np1': '387357186', 'provider_fees': 170.05, 'member_coinsurance': 33.67, 'member_copy': 0.0, 'allowed_fees': 133.66, 'submitted_procedure': 'D4210', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 968851), 'net_fee': 74.55999999999999}
Publishing claim data to RabbitMQ: {'claim_id': '8a515aef-f8d3-472e-9748-b2eff32af35f', 'provider_np1': '6297484348', 'provider_fees': 274.33, 'member_coinsurance': 44.67, 'member_copy': 0.0, 'allowed_fees': 186.67, 'submitted_procedure': 'D436', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 913712), 'net_fee': 87.52888888888889}
Publishing claim data to RabbitMQ: {'claim_id': '0bb8b8b1-7273-484d-9588-2aa741e40949', 'provider_np1': '5344639585', 'provider_fees': 147.3, 'member_coinsurance': 24.34, 'member_copy': 0.0, 'allowed_fees': 97.38, 'submitted_procedure': 'D0218', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 921760), 'net_fee': 74.26888888888889}
Publishing claim data to RabbitMQ: {'claim_id': 'a39f7c03-28a2-41af-9d5f-d6a44b6f6a5a', 'provider_np1': '2782123773', 'provider_fees': 165.66, 'member_coinsurance': 26.05, 'member_copy': 0.0, 'allowed_fees': 184.19, 'submitted_procedure': 'D436', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 928189), 'net_fee': 87.52888888888889}
Publishing claim data to RabbitMQ: {'claim_id': '77275628-fc7f-4b8e-9e4a-42c7a12a6dcl', 'provider_np1': '7662375458', 'provider_fees': 122.1, 'member_coinsurance': 24.74, 'member_copy': 0.0, 'allowed_fees': 184.95, 'submitted_procedure': 'D0188', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 937184), 'net_fee': 41.89}
Publishing claim data to RabbitMQ: {'claim_id': '6a073a3a-7287-48a2-8b47-5df356f99509', 'provider_np1': '3117608489', 'provider_fees': 161.62, 'member_coinsurance': 36.73, 'member_copy': 0.0, 'allowed_fees': 144.92, 'submitted_procedure': 'D436', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 944767), 'net_fee': 51.43888888888889}
Publishing claim data to RabbitMQ: {'claim_id': '18286828-3089-4e4a-a092-79a32b71a151', 'provider_np1': '0620848171', 'provider_fees': 239.73, 'member_coinsurance': 38.81, 'member_copy': 0.0, 'allowed_fees': 123.25, 'submitted_procedure': 'D0161', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 948233), 'net_fee': 147.51999999999998}
Publishing claim data to RabbitMQ: {'claim_id': '5617310b-7a7b-4fab-ae93-dcca338f4a48', 'provider_np1': '7798448596', 'provider_fees': 272.4, 'member_coinsurance': 48.93, 'member_copy': 0.0, 'allowed_fees': 143.45, 'submitted_procedure': 'D0188', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 962745), 'net_fee': 149.65999999999999}
Publishing claim data to RabbitMQ: {'claim_id': 'f5d198a6-1c8b-45a5-91c1-8a57f6ba67cd', 'provider_np1': '6495456489', 'provider_fees': 68.56, 'member_coinsurance': 9.12, 'member_copy': 0.0, 'allowed_fees': 36.5, 'submitted_procedure': 'D0218', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 978648), 'net_fee': 41.12888888888889}
Publishing claim data to RabbitMQ: {'claim_id': '97ada599-19a2-408f-8789-5c18d8fc131', 'provider_np1': '4293841424', 'provider_fees': 156.72, 'member_coinsurance': 29.68, 'member_copy': 0.0, 'allowed_fees': 116.73, 'submitted_procedure': 'D436', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 979803), 'net_fee': 67.47}
Publishing claim data to RabbitMQ: {'claim_id': '243b0499-3a23-4b47-8b0a-8c4c4d80525f', 'provider_np1': '8058262159', 'provider_fees': 66.49, 'member_coinsurance': 9.68, 'member_copy': 0.0, 'allowed_fees': 38.71, 'submitted_procedure': 'D0218', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 986710), 'net_fee': 27.46}
Publishing claim data to RabbitMQ: {'claim_id': '7a83e3a1-44d5-4c55-931c-cc998c57882a', 'provider_np1': '8898108379', 'provider_fees': 252.16, 'member_coinsurance': 51.83, 'member_copy': 0.0, 'allowed_fees': 287.32, 'submitted_procedure': 'D0161', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 16, 990848), 'net_fee': 96.67888888888889}
Publishing claim data to RabbitMQ: {'claim_id': '7a680157-fa08-428b-8145-f8a32b79a83a', 'provider_np1': '7836967515', 'provider_fees': 62.84, 'member_coinsurance': 12.67, 'member_copy': 0.0, 'allowed_fees': 58.67, 'submitted_procedure': 'D0188', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 17, 339751), 'net_fee': 26.839999999999999}
Publishing claim data to RabbitMQ: {'claim_id': '9b0f28f7-bc48-418a-873a-b7f4183924fb', 'provider_np1': '9115238764', 'provider_fees': 282.45, 'member_coinsurance': 48.18, 'member_copy': 0.0, 'allowed_fees': 272.73, 'submitted_procedure': 'D0218', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 17, 116991), 'net_fee': 77.89999999999999}
Publishing claim data to RabbitMQ: {'claim_id': '0158b0a3-9583-49ad-8e7d-d4a982ccea19', 'provider_np1': '4117831578', 'provider_fees': 55.24, 'member_coinsurance': 12.19, 'member_copy': 0.0, 'allowed_fees': 48.74, 'submitted_procedure': 'D0218', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 17, 196381), 'net_fee': 18.69888888888889}
Publishing claim data to RabbitMQ: {'claim_id': '38921eef-6971-48b1-8c4f-9728f2828e39', 'provider_np1': '8629641688', 'provider_fees': 172.31, 'member_coinsurance': 36.74, 'member_copy': 0.0, 'allowed_fees': 146.95, 'submitted_procedure': 'D436', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 17, 27488), 'net_fee': 62.18888888888889}
Publishing claim data to RabbitMQ: {'claim_id': '84746444-4411-4788-29ad-c80d11b0f83a', 'provider_np1': '15548233789', 'provider_fees': 73.45, 'member_coinsurance': 11.48, 'member_copy': 0.0, 'allowed_fees': 45.92, 'submitted_procedure': 'D436', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 17, 34942), 'net_fee': 39.01888888888889}
Publishing claim data to RabbitMQ: {'claim_id': '392c28ef-ae97-482a-89cf-bb74b9b0973a', 'provider_np1': '2787189524', 'provider_fees': 215.59, 'member_coinsurance': 45.63, 'member_copy': 0.0, 'allowed_fees': 182.51, 'submitted_procedure': 'D436', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 17, 42836), 'net_fee': 78.71888888888889}
Publishing claim data to RabbitMQ: {'claim_id': 'f8e4e67c-588d-4252-bec6-bf72861a3967', 'provider_np1': '8764532432', 'provider_fees': 68.19, 'member_coinsurance': 13.4, 'member_copy': 0.0, 'allowed_fees': 53.69, 'submitted_procedure': 'D0218', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 17, 58434), 'net_fee': 18.8}
Publishing claim data to RabbitMQ: {'claim_id': 'eececa08-1918-4416-888d-fc974b49fc71', 'provider_np1': '9267232821', 'provider_fees': 86.49, 'member_coinsurance': 11.83, 'member_copy': 0.0, 'allowed_fees': 47.33, 'submitted_procedure': 'D0188', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 17, 59588), 'net_fee': 88.98999999999999}
Publishing claim data to RabbitMQ: {'claim_id': '5bd28a61-e8b0-47f6-8b59-78a818d13843', 'provider_np1': '2985729996', 'provider_fees': 77.62, 'member_coinsurance': 12.96, 'member_copy': 0.0, 'allowed_fees': 51.84, 'submitted_procedure': 'D436', 'ed_at': datetime.datetime(2024, 6, 2, 17, 42, 17, 67780), 'net_fee': 38.74888888888889}
Publishing claim data to RabbitMQ: {'claim_id': '9f4f48f9-4a43-43e6-f5de-6a9bb671ea3', 'provider_np1': '1497775538', 'provider_fees': 180.8, 'member_coinsurance': 0.0, 'member_copy': 0.0, 'allowed_fees': 180.8, 'submitted_procedure': 'D0188', 'ed_at': datetime.datetime(2024, 6, 2, 17, 44, 46, 738723), 'net_fee': 8.0}
Publishing claim data to RabbitMQ: {'claim_id': 'b5fcfc21-a951-4275-9545-9a22a7a6a882', 'provider_np1': '1497775538', 'provider_fees': 188.8, 'member_coinsurance': 0.0, 'allowed_fees': 188.8, 'submitted_procedure': 'D0218', 'ed_at': datetime.datetime(2024, 6, 2, 17, 44, 46, 747232), 'net_fee': 8.0}
Publishing claim data to RabbitMQ: {'claim_id': 'ed81e26e-a2c3-48d8-a489-58c1abbcd2e6', 'provider_np1': '1497775538', 'provider_fees': 138.0, 'member_coinsurance': 16.25, 'member_copy': 0.0, 'allowed_fees': 65.0, 'submitted_procedure': 'D436', 'ed_at': datetime.datetime(2024, 6, 2, 17, 44, 46, 756999), 'net_fee': 81.293}
Publishing claim data to RabbitMQ: {'claim_id': '948e0809-7a3f-48a1-8832-083d8a388a5a', 'provider_np1': '1497775538', 'provider_fees': 178.0, 'member_coinsurance': 35.0, 'member_copy': 0.0, 'allowed_fees': 178.0, 'submitted_procedure': 'D4211', 'ed_at': datetime.datetime(2024, 6, 2, 17, 44, 46, 763753), 'net_fee': 35.509999999999994}
(mynv) vigne@Prestis-MacBook-Pro:~$ test $
```

Payment service able to consume the message from RabbitMQ

```

rabbitmq- 2024-06-02 15:20:55.747052+000 [warning] <0.585.0> To test RabbitMQ as if the feature was removed, set this in your configuration:
rabbitmq- 2024-06-02 15:20:55.747052+000 [warning] <0.585.0> "deprecated_features permit_management_metrics collection = false"
payments- INFO: Started server process [1]
payments- INFO: Waiting for application startup.
payments- INFO: Application startup complete.
payments- INFO: Uvicorn running on http://a.a.0.0:8080 (Press CTRL+C to quit)
rabbitmq- 2024-06-02 15:20:55.714012+000 [info] <0.622.0 Management metrics: HTTP (non-TLS) listener started on port 15672
rabbitmq- 2024-06-02 15:20:55.714345+000 [info] <0.655.0> Statistics database started.
rabbitmq- 2024-06-02 15:20:55.714569+000 [info] <0.654.0> Starting worker pool 'management_worker_pool' with 3 processes in it
rabbitmq- 2024-06-02 15:20:55.722549+000 [info] <0.673.0> Prometheus metrics: HTTP (non-TLS) listener started on port 15692
rabbitmq- 2024-06-02 15:20:55.722538+000 [info] <0.562.0> Ready to start client connection listeners
rabbitmq- 2024-06-02 15:20:55.728099+000 [info] <0.717.0> Started TCP listener on [::]:5672
rabbitmq- 2024-06-02 15:20:55.728099+000 [info] <0.562.0> completed with 6 plugins.
rabbitmq- 2024-06-02 15:20:55.839301+000 [info] <0.562.0> Server startup complete: 6 plugins started.
rabbitmq- 2024-06-02 15:20:55.839301+000 [info] <0.562.0> = rabbitmq_prometheus
rabbitmq- 2024-06-02 15:20:55.839301+000 [info] <0.562.0> = rabbitmq_federation
rabbitmq- 2024-06-02 15:20:55.839301+000 [info] <0.562.0> = rabbitmq_management
rabbitmq- 2024-06-02 15:20:55.839301+000 [info] <0.562.0> = rabbitmq_management_agent
rabbitmq- 2024-06-02 15:20:55.839301+000 [info] <0.562.0> = rabbitmq_web_dispatch
rabbitmq- 2024-06-02 15:20:55.839301+000 [info] <0.562.0> = rabbitmq_cli_client
payments- INFO: 9.90 Time to start RabbitMQ: 14699 ms
payments- INFO:MainReceived net fee data: {"claim_id": "0d227f08-ae4c1-abc-9896643f8da3", "provider_info": "1497755330", "provider_fees": 100.0, "member_coinsurance": 0.0, "member_copy": 0.0, "allowed_fees": 100.0, "submitted_procedure": "D0219", "quadrant": " ", "created_at": "2024-06-02 15:21:35.2937248479", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "ea46634a-3bd5-4780-8960-10d26664c414", "provider_info": "1497755330", "provider_fees": 100.0, "member_coinsurance": 0.0, "member_copy": 0.0, "allowed_fees": 100.0, "submitted_procedure": "D0219", "quadrant": " ", "created_at": "2024-06-02 15:21:35.2937248479", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "eaf6f684-38d5-4f58-b4d7-3508f7480904", "provider_info": "1497755330", "provider_fees": 130.0, "member_coinsurance": 16.25, "member_copy": 0.0, "allowed_fees": 0.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.291721756749", "net_fee": 81.25}
payments- INFO:MainReceived net fee data: {"claim_id": "07424", "provider_info": "1497755330", "provider_fees": 178.0, "member_coinsurance": 35.6, "member_copy": 0.0, "allowed_fees": 178.0, "submitted_procedure": "D0430", "quadrant": " ", "created_at": "2024-06-02 15:21:35.
```