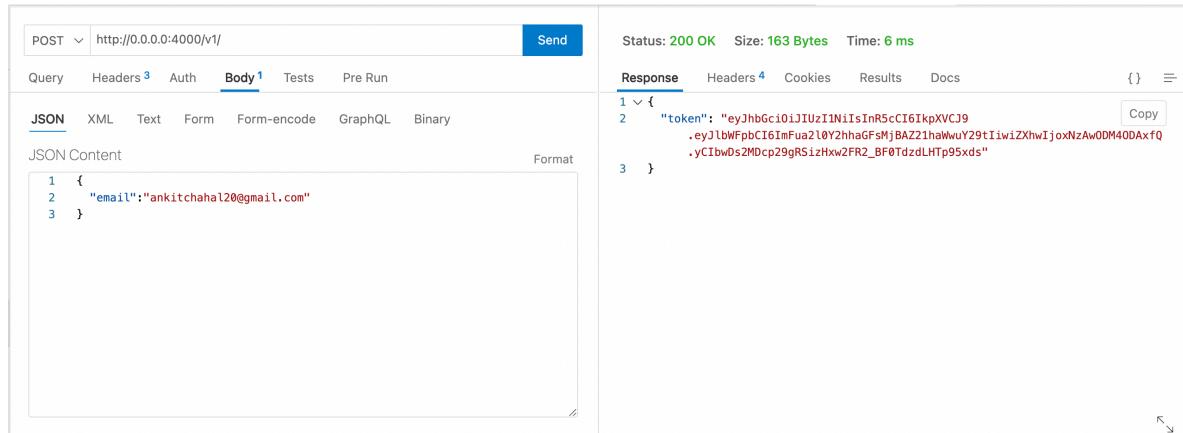


MQTT Pipeline Service Testing

Create Token : Happy Path



POST <http://0.0.0.0:4000/v1/> Send

Query Headers 3 Auth Body 1 Tests Pre Run

JSON XML Text Form Form-encode GraphQL Binary

JSON Content Format

```
1 {
2   "email": "ankitchahal20@gmail.com"
3 }
```

Status: 200 OK Size: 163 Bytes Time: 6 ms

Response Headers 4 Cookies Results Docs

```
1 < {
2   "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9
3     .eyJlbWFpbCI6ImFua2l0Y2hhaGFmJBAZ21haWwUY29tIiwiZXhwIjoxNzAwODM4ODAxIiQ
4     .yCIBwOs2MDcp29gRSizHxw2FR2_BF0TdzdLHTp95xds"
5 }
```

Copy ↴ ↵

Logs

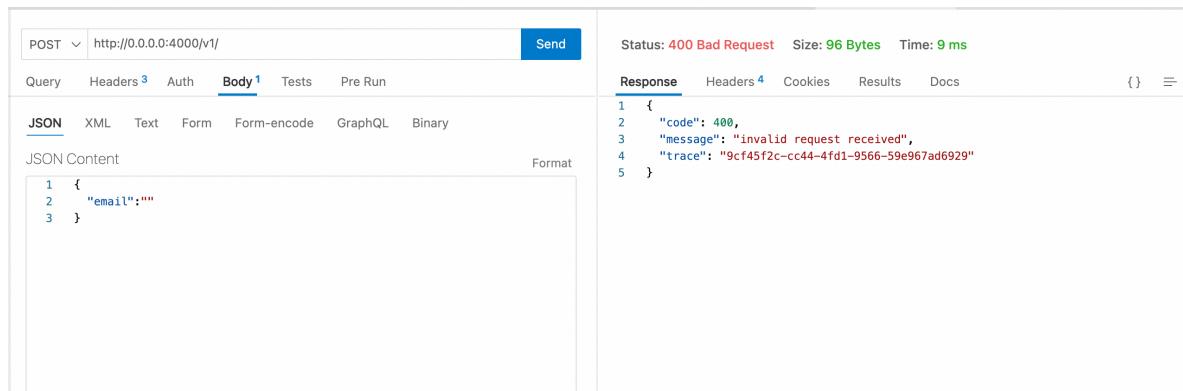


```
ankitchahal@Ankit's-MacBook-Pro-2:~/dev/go/src/github.com/mqtt-pipeline [master] go run cmd/main.go
/Users/ankitchahal/dev/go/src/github.com/mqtt-pipeline
Err : <n/a>
2023-11-24T20:37:55.417+0530    INFO    utils/utils.go:71      successfully to send the fetch data from the topic<n/a>
2023-11-24T20:37:55.418+0530    INFO    cmd/main.go:23  main started
[GIN-debug] [WARNING] Running in "debug" mode. Switch to "release" mode in production.
- using env: export GIN_MODE=release
- using code: gin.SetMode(gin.ReleaseMode)

[GIN-debug] POST   /v1/          --> github.com/mqtt-pipeline/internal/server.registerGetTokenEndPoints.GenerateToken.func2 (4 handlers)
[GIN-debug] POST   /v1/publish   --> github.com/mqtt-pipeline/internal/server.registerPublishEndpointPoints.Publish.func3 (5 handlers)
[GIN-debug] GET    /v1/          --> github.com/mqtt-pipeline/internal/server.registerSpeedDataEndPoints.GetSpeedData.func2 (4 handlers)
2023/11/24 20:37:55 Starting Server
2023-11-24T20:38:09.966+0530    INFO    service/service.go:40  received request for generating token, txid : cc98e13e-43c1-41ae-a496-d580c5195212
2023-11-24T20:38:21.619+0530    INFO    service/service.go:40  received request for generating token, txid : fbc94feb-fc71-4fb1-853a-860bdfc78c19
```

Create Token : Sad Path

Email is not provided



POST <http://0.0.0.0:4000/v1/> Send

Query Headers 3 Auth Body 1 Tests Pre Run

JSON XML Text Form Form-encode GraphQL Binary

JSON Content Format

```
1 {
2   "email": ""
3 }
```

Status: 400 Bad Request Size: 96 Bytes Time: 9 ms

Response Headers 4 Cookies Results Docs

```
1 < {
2   "code": 400,
3   "message": "invalid request received",
4   "trace": "9cf45f2c-cc44-4fd1-9566-59e967ad6929"
5 }
```

```

ankitchahal@Ankitchahal-MacBook-Pro-2:~/dev/go/src/github.com/mqtt-pipeline$ git master$ go run cmd/main.go
/Users/ankitchahal/dev/go/src/github.com/mqtt-pipeline
Err : <nil>
2023-11-24T20:37:55.417+0530   INFO  utils/utils.go:71      successfully to send the fetch data from the topic<nil>
2023-11-24T20:37:55.418+0530   INFO  cmd/main.go:23  main started
[GIN-debug] [WARNING] Running in "debug" mode. Switch to "release" mode in production.
- using env: export GIN_MODE=release
- using code: gin.SetMode(gin.ReleaseMode)

[GIN-debug] POST  /v1/          --> github.com/mqtt-pipeline/internal/server.registerGetTokenEndPoints.GenerateToken.func2 (4 handlers)
[GIN-debug] POST  /v1/publish    --> github.com/mqtt-pipeline/internal/server.registerPublishEndpointPoints.Publish.func3 (5 handlers)
[GIN-debug] GET   /v1/          --> github.com/mqtt-pipeline/internal/server.registerSpeedDataEndPoints.GetSpeedData.func2 (4 handlers)
2023/11/24 20:37:55 Starting Server
2023-11-24T20:38:09.966+0530   INFO  service/service.go:40  received request for generating token, txid : cc98e13e-43c1-41ae-a496-d580c5195212
2023-11-24T20:38:21.619+0530   INFO  service/service.go:40  received request for generating token, txid : fbc94feb-fc71-4fb1-853a-860bd9c78c19
2023-11-24T20:39:31.853+0530   ERROR  middleware/InputValidation.go:79  request does not have email field, txid : 9cf45f2c-cc44-4fd1-9566-59e967ad6929
github.com/mqtt-pipeline/internal/server.registerGetTokenEndPoints.ValidateGetTokenEndPointRequest.func1
/Users/ankitchahal/dev/go/src/github.com/mqtt-pipeline/internal/middleware/InputValidation.go:79
github.com/gin-gonic/gin.(*Context).Next
github.com/gin-gonic/gin.CustomRecoveryWithWriter.func1
/Users/ankitchahal/dev/go/pkg/mod/github.com/gin-gonic/gin@v1.9.1/recovery.go:102
github.com/gin-gonic/gin.(*Context).Next
github.com/gin-gonic/gin.(*Engine).handleHTTPRequest
/Users/ankitchahal/dev/go/pkg/mod/github.com/gin-gonic/gin@v1.9.1/gin.go:620
github.com/gin-gonic/gin.(*Engine).ServeHTTP
/Users/ankitchahal/dev/go/pkg/mod/github.com/gin-gonic/gin@v1.9.1/gin.go:576
net/http.serverHandler.ServeHTTP
/opt/homebrew/Cellar/go/1.21.4/libexec/src/net/http/server.go:2938
net/http.(*conn).serve
/opt/homebrew/Cellar/go/1.21.4/libexec/src/net/http/server.go:2009

```

Invalid Email Address

POST <http://0.0.0.0:4000/v1/>

Body 1

Status: 400 Bad Request Size: 130 Bytes Time: 5 ms

| Response | Headers 4 | Cookies | Results | Docs |
|---|-----------|---------|---------|------|
| <pre> 1 { 2 "code": 400, 3 "message": "invalid email found, err : mail: missing '@' or angle-addr", 4 "trace": "1c36c415-0f6a-42b7-9573-b5f961e53101" 5 } </pre> | | | | |

```

ankitchahal@Ankitchahal-MacBook-Pro-2:~/dev/go/src/github.com/mqtt-pipeline$ go run cmd/main.go
/Users/ankitchahal/dev/go/src/github.com/mqtt-pipeline
Err : <nil>
2023-11-24T20:40:29.373+0530   ERROR  middleware/InputValidation.go:87  email received is incorrect, txid : 1c36c415-0f6a-42b7-9573-b5f961e53101
github.com/mqtt-pipeline/internal/server.registerGetTokenEndPoints.ValidateGetTokenEndPointRequest.func1
/Users/ankitchahal/dev/go/src/github.com/mqtt-pipeline/internal/middleware/InputValidation.go:87
github.com/gin-gonic/gin.(*Context).Next
github.com/gin-gonic/gin.CustomRecoveryWithWriter.func1
/Users/ankitchahal/dev/go/pkg/mod/github.com/gin-gonic/gin@v1.9.1/recovery.go:102
github.com/gin-gonic/gin.(*Context).Next
github.com/gin-gonic/gin.(*Engine).handleHTTPRequest
/Users/ankitchahal/dev/go/pkg/mod/github.com/gin-gonic/gin@v1.9.1/gin.go:620
github.com/gin-gonic/gin.(*Engine).ServeHTTP
/Users/ankitchahal/dev/go/pkg/mod/github.com/gin-gonic/gin@v1.9.1/gin.go:576
net/http.serverHandler.ServeHTTP
/opt/homebrew/Cellar/go/1.21.4/libexec/src/net/http/server.go:2938
net/http.(*conn).serve
/opt/homebrew/Cellar/go/1.21.4/libexec/src/net/http/server.go:2009

```

Publish the Speed Data

POST <http://0.0.0.0:4000/v1/publish>

Status: 200 OK Size: 51 Bytes Time: 12 ms

Query Headers 3 Auth Body 1 Tests Pre Run

Response Headers 4 Cookies Results Docs

JSON Content Format

```
1 {
2   "speed":99
3 }
```

```
ankitchahal@Ankits-MacBook-Pro-2:~ redis-cli
127.0.0.1:6379> GET latest_speed_data
"10"
127.0.0.1:6379> GET latest_speed_data
"{"speed":0}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":0}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":0}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":0}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":16}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":16}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":17}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":19}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":22}"
127.0.0.1:6379> flushall
Error: Server closed the connection
not connected>
not connected> redis-cli
(error) ERR unknown command 'redis-cli', with args beginning with:
127.0.0.1:6379> redis-cli
(error) ERR unknown command 'redis-cli', with args beginning with:
127.0.0.1:6379> flushall
OK
127.0.0.1:6379> GET latest_speed_data
"{"speed":99}"
127.0.0.1:6379> █
```

GET call to fetch the latest data from Redis

GET Send

Query Headers **3** Auth Body Tests Pre Run

HTTP Headers Raw

| | |
|---|--|
| <input checked="" type="checkbox"/> Accept | */* |
| <input checked="" type="checkbox"/> User-Agent | Thunder Client (https://www.thunderclient.c) |
| <input checked="" type="checkbox"/> Authorization | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJ. |
| <input type="checkbox"/> header | value |

Status: 200 OK Size: 19 Bytes Time: 17 ms

Response Headers **4** Cookies Results Docs { }

```
1 ↵ {
2   "latest_speed": 99
3 }
```

```
/opt/homebrew/Cellar/go/1.21.4/libexec/src/net/http/server.go:2938
net/http.(*conn).serve
/opt/homebrew/Cellar/go/1.21.4/libexec/src/net/http/server.go:2009
2023-11-24T20:41:33.824+0530 INFO service/service.go:40 received request for generating token, txid : 6a42f898-d297-434d-8f1d-e598c6968896
2023-11-24T20:41:50.721+0530 INFO middleware/auth.go:54 received valid token, txid : 75b8139e-7db7-455b-8a7d-a5f73e3eb56a
2023-11-24T20:41:50.721+0530 INFO service/service.go:79 received request for publish the speed on matt, txid : 75b8139e-7db7-455b-8a7d-a5f73e3eb56a
2023-11-24T20:41:50.723+0530 INFO service/service.go:109 successfully publish the message on the topic, txid : 75b8139e-7db7-455b-8a7d-a5f73e3eb56a
runtime.NumGoroutine() : 17
2023-11-24T20:41:51.011+0530 INFO service/service.go:122 data successfully fetched from the topic, txid : 75b8139e-7db7-455b-8a7d-a5f73e3eb56a
2023-11-24T20:41:51.025+0530 INFO service/service.go:152 data stored successfully in redis , txid : 75b8139e-7db7-455b-8a7d-a5f73e3eb56a
2023-11-24T20:43:02.828+0530 INFO middleware/auth.go:54 received valid token, txid : bbff83ba-30d9-410e-940e-d1956509a02a
2023-11-24T20:43:02.828+0530 INFO service/service.go:159 received request to get the latest value from redis, txid : bbff83ba-30d9-410e-940e-d1956509a02a
```

Token expired on GET Endpoint to latest data from Redis

GET Send

Query Headers **3** Auth Body Tests Pre Run

HTTP Headers Raw

| | |
|---|--|
| <input checked="" type="checkbox"/> Accept | */* |
| <input checked="" type="checkbox"/> User-Agent | Thunder Client (https://www.thunderclient.c) |
| <input checked="" type="checkbox"/> Authorization | eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJ. |
| <input type="checkbox"/> header | value |

Status: 401 Unauthorized Size: 85 Bytes Time: 8 ms

Response Headers **4** Cookies Results Docs { }

```
1 ↵ {
2   "code": 401,
3   "message": "token expired",
4   "trace": "7665959f-de8e-4e47-a05f-667f453905d4"
5 }
```

Token expired on Publish API Endpoint

Speed is not sent when calling publish api

Invalid speed is sent when calling publish api

POST Send

Status: **400 Bad Request** Size: 111 Bytes Time: 9 ms

Query Headers 3 Auth **Body 1** Tests Pre Run

JSON XML Text Form Form-encode GraphQL Binary

JSON Content Format

```
1 {
2   "speed": 199
3 }
```

Response Headers 4 Cookies Results Docs { } ...

```
1 {
2   "code": 400,
3   "message": "speed should be range between 0 and 100",
4   "trace": "459a14e6-1ed4-4560-b439-7f7083f27797"
5 }
```

Evidence that Redis data is updated to speed 79 from 99

POST Send

Status: **200 OK** Size: 51 Bytes Time: 11 ms

Query Headers 3 Auth **Body 1** Tests Pre Run

JSON XML Text Form Form-encode GraphQL Binary

JSON Content Format

```
1 {
2   "speed": 79
3 }
```

Response Headers 4 Cookies Results Docs { } ...

```
1 {
2   "message": "Published speed data to MQTT Pipeline"
3 }
```

```
127.0.0.1:6379> GET latest_speed_data
"10"
127.0.0.1:6379> GET latest_speed_data
"{"speed":0}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":0}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":0}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":16}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":16}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":17}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":19}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":22}"
127.0.0.1:6379> flushall
Error: Server closed the connection
not connected>
not connected> redis-cli
(error) ERR unknown command 'redis-cli', with args beginning with:
127.0.0.1:6379> redis-cli
(error) ERR unknown command 'redis-cli', with args beginning with:
127.0.0.1:6379> flushall
OK
127.0.0.1:6379> GET latest_speed_data
"{"speed":99}"
127.0.0.1:6379> GET latest_speed_data
"{"speed":79}"
127.0.0.1:6379> █
```