Basic Test Cases (Success & Error)

Create Queue Test Case 1 (Success)

Title: Create Queue API - Successful request creates queue in database

Description: A successful request made to the server should create a new entry in the **companyQueue** table with the correct parameters.

Precondition: **companyQueue** table created with no existing **queue_id**.

Test Steps:

- 1. Start the Backend Server
- 2. Send a Create Queue request to the backend with a **valid company_id**, and an **existing** and **valid queue_id**

- 3. Receive a **201 Created** response
- 4. Go to elephantsql to inspect the **companyQueue** table

Expected Result: **Queue** '**QUEUE12345**' from **company 1234567890** is created in the **companyQueue** table

Actual Result: Queue 'QUEUE12345' from company 1234567890 is created in the companyQueue table (PASS)





Create Queue Test Case 2 (Error - Queue Id already exists)

Title: Create Queue API - Error in queue id request prevents create queue in database

Description: When an error request with duplicated **queue id** is made to the server, it should receive a 404 error response and not create a queue in the **companyQueue** table.

Precondition: companyQueue table created, queue_id QUEUE12345 exists.

Test Steps:

- 1. Start the Backend Server
- Send a Create Queue request to the backend with an existing and valid company_id and queue_id

```
{
    "company_id": 8912345678,
    "queue_id": "QUEUE12345"
}
```

3. Receive a **422 Unprocessable Entity** response with an error response body

```
{
    "error": "Queue Id QUEUE12345 already exists",
    "code": "QUEUE_EXISTS"
}
```

4. Go to ElephantSQL to inspect the companyQueue table

Expected Result: No new row with the **queue_id** and **company_id** is created, the only row existing is what was created in the precondition.

Actual Result: No new row with the **queue_id** and **company_id** is created, the only row existing is what was created in the precondition (**PASS**)





Create Queue Test Case 3 (Error - Error in body parameters)

Title: Create Queue API - Invalid customer_id in request prevents create queue in database

Description: When an error request with an invalid **customer id** of less than 10 digits is made to the server, it should receive an error response and not create a queue in the **companyQueue** table.

Precondition: companyQueue table created with no existing queue_id.

Test Steps:

- 1. Start the Backend Server
- 2. Send a Create Queue request to the backend with an **invalid company_id** but a **valid queue_id**

```
{
    "company_id": 123456789,
    "queue_id": "QUEUE12345"
}
```

3. Receive a 400 Bad request response with an error response body

```
{
    "error": "You have an invalid json body",
    "code": "INVALID_JSON_BODY"
}
```

4. Go to elephantsql to inspect the **companyQueue** table

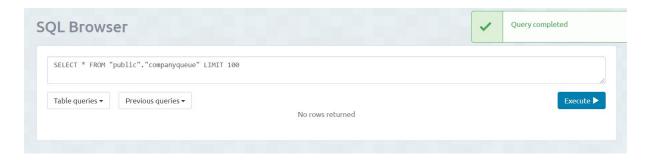
Expected Result: There is no data in companyQueue table

Actual Result: There is no data in companyQueue table (PASS)

```
//Create Queue Test Case 3 (Error - Error in body parameters)
Send Request
POST http://{{host}}{{path}} HTTP/1.1
Content-Type: application/json

{
    "company_id": 123456789,
    "queue_id": "QUEUE12345"
}

| Thrp://thost/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight/fight
```



Update Queue Test Case 1 (Success - Activate Queue)

Title: Update Queue API - Successful request updates queue **status** in database to 'ACTIVATE'

Description: A successful request made to the server should update the **status** of the queue that already exists in the **companyQueue** table with the correct parameters.

Precondition: **companyQueue** table created with 1 row of data **queue_id QUEUE12345** with **status** '**INACTIVE**'.

Test Steps:

- 1. Start the Backend Server
- 2. Send an Update Queue request to the backend with a **valid status** 'Activate' in the json body

```
{
    "status": "ACTIVATE"
}
```

- 3. Receive a 200 OK response
- 4. Go to elephantsql to inspect the **companyQueue** table

Expected Result: The status of the queue is changed to 'ACTIVE'

Actual Result: The **status** of the queue is changed to **'ACTIVE'** (**PASS**)

```
### Activate

///Update Queue Test Case 1 (Success - Activate Queue)

Send Request

PUT http://{{host}}{{path}}?queue_id=QUEUE12345 HTTP/1.1

Content-Type: application/json

{
    "status": "ACTIVATE"

} HTTP/1.1 200 OK

2 X-Powered-By: Express

3 Access-Control-Allow-Origin: *

4 Date: Tue, 24 Nov 2020 15:12:56 GMT

Connection: close

6 Content-Length: 0

7

8
}
```



Update Queue Test Case 2 (Success - Deactivate Queue)

Title: Update Queue API - Successful request updates queue **status** in database to '**INACTIVE**'

Description: A successful request made to the server should update the **status** of the queue that already exists in the **companyQueue** table with the correct parameters.

Precondition: **companyQueue** table created with 1 row of data **queue_id QUEUE12345** with **status** 'ACTIVE'.

Test Steps:

- 1. Start the Backend Server
- 2. Send an Update Queue request to the backend with a **valid status** '**DEACTIVATE**' in the json body

```
{
    "status": "DEACTIVATE"
}
```

- 3. Receive a 200 OK response
- 4. Go to elephantsql to inspect the companyQueue table

Expected Result: The status of the queue is changed to 'INACTIVE'

Actual Result: The **status** of the queue is changed to **'INACTIVE'** (**PASS**)

```
### Deactivate
//Update Queue Test Case 2 (Success - Deactivate Queue)
Send Request
PUT http://{{host}}{{path}}?queue_id=QUEUE12345 HTTP/1.1
Content-Type: application/json

{
    "status": "DEACTIVATE"
}

HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Date: Tue, 24 Nov 2020 15:10:53 GMT
5 Connection: close
6 Content-Length: 0
7
8
```



Update Queue Test Case 3 (Error - Unknown Queue ID)

Title: Update Queue API - Unknown queue_id request prevents update queue status in database

Description: An error request made to the server should receive an error response and not update the queue **status** in the **companyQueue** table.

Precondition: **companyQueue** table created with 1 row of data **queue_id QUEUE12345** with **status** '**INACTIVE**'.

Test Steps:

- 1. Start the Backend Server
- Send an Update Queue request to the backend with an unknown queue_id (queue_id=QUEUE12346) in the URL query and a valid status 'DEACTIVATE' in the json body

```
PUT http://localhost:3000/company/queue?queue_id=QUEUE12346 HTTP/1.1
{
     "status": "DEACTIVATE"
}
```

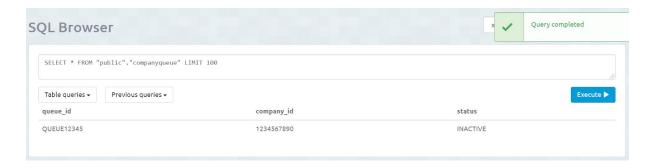
3. Receive a 404 Not Found response with an error response body

```
{
    "error": "Queue Id QUEUE12346 Not Found",
    "code": "UNKNOWN_QUEUE"
}
```

4. Go to elephantsql to inspect the companyQueue table

Expected Result: There is no change to the **status** in the companyTable, **status** remains '**INACTIVE**'

Actual Result: There is no change to the **status** in the companyTable, **status** remains '**INACTIVE**' (**PASS**)



Update Queue Test Case 4 (Error - Invalid Status)

Title: Update Queue API - Invalid status request prevents update queue status in database

Description: An error request made to the server should receive an error response and not update the queue **status** in the **companyQueue** table.

Precondition: companyQueue table created with 1 row of data queue_id QUEUE12345 with status 'INACTIVE'.

Test Steps:

- 1. Start the Backend Server
- 2. Send an Update Queue request to the backend with an **invalid status** 'ACTI VATE' in the json body

```
{
    "status": "ACTI VATE"
}
```

3. Receive a 400 Bad Request response with an error response body

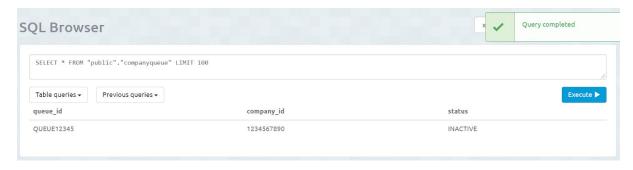
```
{
    "error": "You have an invalid json body",
    "code": "INVALID_JSON_BODY"
}
```

4. Go to elephantsql to inspect the **companyQueue** table

Expected Result: There is no change to the **status** in the companyTable, **status** remains '**INACTIVE**'

Actual Result: There is no change to the **status** in the companyTable, **status** remains '**INACTIVE**' (**PASS**)





Join Queue Test Case 1 (Success)

Title: Join Queue API - Successful request customer join queue in database

Description: A successful request made to the server should create a new entry in the customerQueue table with the correct parameters (customer_id = 1234567890, queue_id = QUEUE12345).

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and there should be no rows existing in the customerQueue.

Test Steps:

- 1. Start the Backend Server
- 2. Send an Join Queue request to the backend with a **valid customer_id** and an **existing** and **valid queue_id** in the json body

- 3. Receive a **201 Created** response
- 4. Go to elephantsql to inspect the **customerQueue** table

Expected Result: A new row with the **customer_id 1234567890** and **queue_id** 'QUEUE12345' is created

Actual Result: A new row with the **customer_id 1234567890** and **queue_id** 'QUEUE12345' is created (PASS)



Join Queue Test Case 2 (Success - multiple people joining queue)

Title: Join Queue API - Successful request customer join queue in database

Description: A successful request made to the server should create a new entry in the customerQueue table with the correct parameters (customer_id = 9999999999, queue_id = QUEUE12345).

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and there should be 1 existing customer_id 1234567890 in queue_id 'QUEUE12345' in the customerQueue.

Test Steps:

- 1. Start the Backend Server
- 2. Send an Join Queue request to the backend with a **valid customer_id** and an **existing** and **valid queue_id** in the json body

- 3. Receive a **201 Created** response
- 4. Go to elephantsql to inspect the **customerQueue** table

Expected Result: A new row with the **customer_id 999999999** and **queue_id** 'QUEUE12345' is created

Actual Result: A new row with the **customer_id 999999999** and **queue_id** 'QUEUE12345' is created (PASS)





Join Queue Test Case 3 (Error - Customer already in Queue)

Title: Join Queue API - Error request customer join queue in database

Description: An unsuccessful request with the customer joining the same queue is made to the server, an error message with the status code 422 will be generated.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and customer_id 1234567890 and 9999999999 should already exist in the queue_id "QUEUE12345" in the customerQueue

Test Steps:

- 1. Start the Backend Server
- 2. Send an Join Queue request to the backend with an **existing customer_id** and an **existing** and **valid queue_id** in the json body

```
{
    "customer_id": 999999999,
    "queue_id": "QUEUE12345"
}
```

3. Receive a **422 Unprocessable Entity** response with an error response body

```
{
    "error": "Customer 999999999 already in Queue QUEUE12345",
    "code": "ALREADY_IN_QUEUE"
}
```

4. Go to elephantsql to inspect the **customerQueue** table

Expected Result: Nothing is inserted into the **customerQueue** table

Actual Result: Nothing is inserted into the customerQueue table (PASS)



Join Queue Test Case 4 (Error - Queue is Inactive)

Title: Join Queue API - Error request customer join queue in database

Description: An unsuccessful request with an inactive queue is made to the server, an error message with the status 422 will be generated.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'INACTIVE' in companyQueue table and no existing data in customerQueue table

Test Steps:

- 1. Start the Backend Server
- 2. Send an Join Queue request to the backend with a **valid customer_id** and an **existing** and **valid queue_id** which is **inactive** in the json body

3. Receive a **422 Unprocessable Entity** response with an error response body

```
{
    "error": "Queue QUEUE12345 is INACTIVE",
    "code": "INACTIVE_QUEUE"
}
```

4. Go to elephantsql to inspect the **customerQueue** table

Expected Result: Nothing is inserted into the **customerQueue** table

Actual Result: Nothing is inserted into the customerQueue table (PASS)

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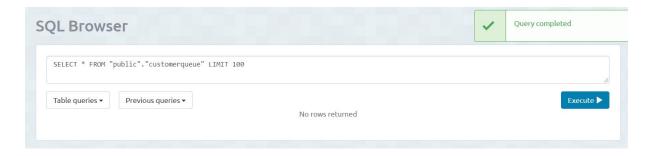
###

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```



Join Queue Test Case 5 (Error - Error in Body Parameters)

Title: Join Queue API - Error request customer join queue in database

Description: An unsuccessful request with invalid **customer_id** is made to the server which generates an error message with the status code 400.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and no existing data in the customerQueue table

Test Steps:

- 1. Start the Backend Server
- 2. Send an Join Queue request to the backend with an **invalid customer_id** with less than 10 digits and an **existing** and **valid queue_id** in the json body

3. Receive a 400 Bad Request response with an error response body

```
{
    "error": "You have an invalid json body",
    "code": "INVALID_JSON_BODY"
}
```

4. Go to elephantsql to inspect the **customerQueue** table

Expected Result: Nothing is inserted into the **customerQueue** table

Actual Result: Nothing is inserted into the customerQueue table (PASS)

```
###

//Join Queue Test Case 5 (Error - Error in Body Parameters)

//Join Queue Test Case 5 (Error - Error in Body Parameters)

Send Request

POST http://{{host}}{{path}} HTTP/1.1

Content-Type: application/json

// Content-Type: application/json

// Content-Length: 68

ETag: W/"44-bRkRCyLONuzBQ4YdBQ/YipRgZlE"

Date: Wed, 25 Nov 2020 09:00:41 GMT

Connection: close

// Content-Length: 68

ETag: W/"44-bRkRCyLONuzBQ4YdBQ/YipRgZlE"

Date: Wed, 25 Nov 2020 09:00:41 GMT

Connection: close

// Content-Type: application/json body",

// Content-Length: 68

ETag: W/"44-bRkRCyLONuzBQ4YdBQ/YipRgZlE"

Date: Wed, 25 Nov 2020 09:00:41 GMT

Connection: close

// Content-Type: application/json body",

// Content-Length: 68

ETag: W/"44-bRkRCyLONuzBQ4YdBQ/YipRgZlE"

// Date: Wed, 25 Nov 2020 09:00:41 GMT

// Connection: close

// Content-Type: application/json; charset=utf-8

// Content-Length: 68

ETag: W/"44-bRkRCyLONuzBQ4YdBQ/YipRgZlE"

// Date: Wed, 25 Nov 2020 09:00:41 GMT

// Connection: close

// Content-Length: 68

ETag: W/"44-bRkRCyLONuzBQ4YdBQ/YipRgZlE"

// Date: Wed, 25 Nov 2020 09:00:41 GMT

// Connection: close

// Content-Type: application/json; charset=utf-8

// Content-Length: 68

ETag: W/"44-bRkRCyLONuzBQ4YdBQ/YipRgZlE"

// Date: Wed, 25 Nov 2020 09:00:41 GMT

// Connection: close

// Content-Length: 68

ETag: W/"44-bRkRCyLONuzBQ4YdBQ/YipRgZlE"

// Date: Wed, 25 Nov 2020 09:00:41 GMT

// Connection: close

// Content-Length: 68

ETag: W/"44-bRkRCyLONuzBQ4YdBQ/YipRgZlE"

// Date: Wed, 25 Nov 2020 09:00:41 GMT

// Connection: Close
```



Join Queue Test Case 6 (Error - Non-existence Queue Id)

Title: Join Queue API - Error request customer join queue in database

Description: An unsuccessful request with an non-existent queue is made to the server, generating an error message with the status code 400.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and no existing data in the customerQueue table

Test Steps:

- 1. Start the Backend Server
- 2. Send an Join Queue request to the backend with a **valid customer_id** but a **non-existent** and **valid queue_id** in the json body

3. Receive a 404 Not Found response with an error response body

```
{
    "error": "Queue Id 0000000000 Not Found",
    "code": "UNKNOWN_QUEUE"
}
```

4. Go to elephantsql to inspect the **customerQueue** table

Expected Result: Nothing is inserted into the **customerQueue** table

Actual Result: Nothing is inserted into the customerQueue table (PASS)

```
###

//Join Queue Test Case 6 (Error - Non-existence Queue Id)
Send Request
POST http://{{host}}{{path}} HTTP/1.1

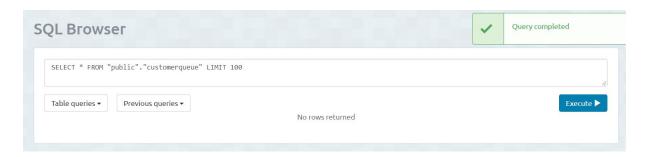
Content-Type: application/json

{
    "customer_id": "999999999,
    "queue_id": "00000000000"

}

###

1 HTTP/1.1 404 Not Found
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 64
6 ETag: W/"40-e8v2/ds5diDWa/iA23YPKh+bCG0"
7 Date: Tue, 24 Nov 2020 15:43:37 GMT
8 Connection: close
9
10 ∨ {
11 "error": "Queue Id 000000000 Not Found",
12 "code": "UNKNOWN_QUEUE"
13 }
```



Server Available Test Case 1 (Success)

Title: Server Available API - Successful request returns the customer id of the next customer and updates the **customerQueue** table

Description: A successful request made to the server should check if the queue exists, return the first **customer id** of the queue, and update the **customerQueue** table.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and and status 'ACTIVE' in companyQueue table and 1 row of data with queue_id 'QUEUE12345' and customer_id 1234567890 in customerQueue table.

Test Steps:

- 1. Start the Backend Server
- 2. Send a Server Available request to the backend with a valid queue_id

```
{
    "queue_id": "QUEUE12345"
}
```

3. Receive a **200 OK** response with a response body

```
{
    "customer_id": 1234567890
}
```

4. Go to elephantsql to inspect the **customerQueue** table

Expected Result: There is no data existing in the **customerQueue** table

Actual Result: There is no data existing in the **customerQueue** table (**PASS**)

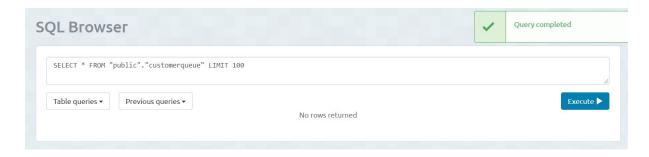
```
3 references
@host = localhost:3000
3 references
@path = /company/server

//Server Available Test Case 1 (Success) 1234567890
//Server Available Test Case 2 (Success - 2nd Poll) 999999999
//Server Available Test Case 3 (Success - No Customer In Queue) 0
Send Request
PUT http://{{host}}{{path}} HTTP/1.1
Content-Type: application/json

{
    "queue_id": "QUEUE12345"
}

#### HTTP/1.1 200 OK

2    X-Powered-By: Express
3    Access-Control-Allow-Origin: *
4    Content-Type: application/json; charset=utf-8
5    Content-Length: 26
ETag: W/"1a-7rl05XRob2dVKZLonxGq6TowFS8"
7    Date: Tue, 24 Nov 2020 16:59:42 GMT
8    Connection: close
9
10 \( \frac{1}{1} \) "customer_id": 1234567890
12  }
```



Server Available Test Case 2 (Success - 2nd Poll)

Title: Server Available API - Successful request returns the customer id of the next customer and updates the **customerQueue** table

Description: A successful request made to the server should check if the queue exists, return the next **customer id** of the queue, and update the **customerQueue** table.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 2 rows of data with the same queue_id 'QUEUE12345' with different customer_id 1234567890 and customer_id 9999999999 in customerQueue table.

Test Steps:

- 1. Start the Backend Server
- Send the Server Available request twice to the backend with a valid queue_id

```
{
    "queue_id": "QUEUE12345"
}
```

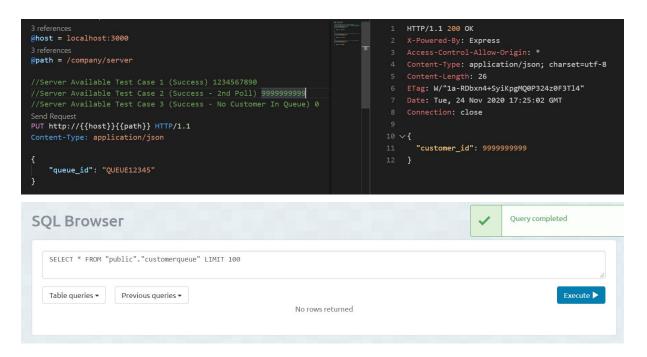
3. Receive a **200 OK** response with a response body

```
{
    "customer_id": 999999999
}
```

4. Go to elephantsql to inspect the **customerQueue** table

Expected Result: There is no data existing in the **customerQueue** table

Actual Result: There is no data existing in the customerQueue table (PASS)



Server Available Test Case 3 (Success - No Customer In Queue)

Title: Server Available API - Successful request returns 0 customer id

Description: A successful request made to the server should check if the queue exists, return **customer id** 0 of the queue when there is no customer in the queue.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and no data in customerQueue table.

Test Steps:

- 1. Start the Backend Server
- 2. Send the Server Available request to the backend with a valid queue_id

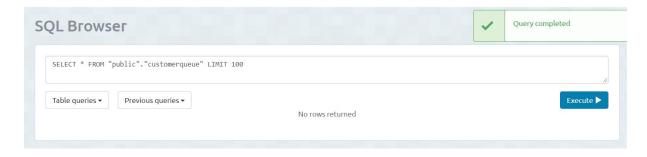
3. Receive a **200 OK** response with a response body

```
{
    "customer_id": 0
}
```

4. Go to elephantsql to inspect the **customerQueue** table

Expected Result: There is no data existing in the customerQueue table

Actual Result: There is no data existing in the customerQueue table (PASS)



Server Available Test Case 4 (Error - Queue Id does not exist)

Title: Server Available API - Non-existent queue id in request prevents selection of the customer id.

Description: An unsuccessful request made to the server should generate an error message with the status code 404 and not update the **customerQueue** table.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and no data in customerQueue table.

Test Steps:

- 1. Start the Backend Server
- 2. Send a Server Available request to the backend with a **non-existent** and **valid queue_id**

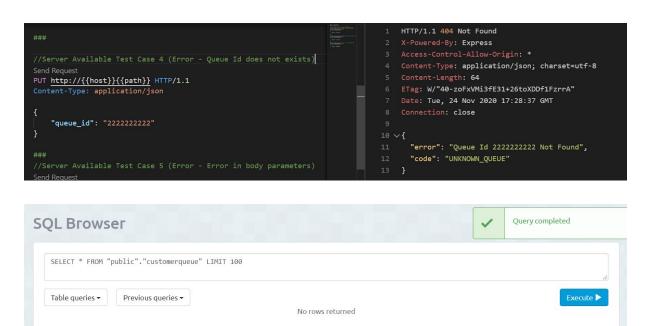
3. Receive a 404 Not Found response with an error response body

```
{
    "error": "Queue Id 222222222 Not Found",
    "code": "UNKNOWN_QUEUE"
}
```

4. Go to ElephantSQL to inspect the **customerQueue** table

Expected Result: No update in the **customerQueue** table, there are still 0 rows

Actual Result: No update in the **customerQueue** table, there are still 0 rows (**PASS**) Evidence:



Server Available Test Case 5 (Error - Error in body parameters)

Title: Server Available API - Invalid queue id in request prevents selection of the customer id.

Description: An unsuccessful request made to the server should generate an error message with the status code 400 and not update the **customerQueue** table.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 1 rows of data with queue_id 'QUEUE12345' and customer_id 1234567890 in customerQueue table.

Test Steps:

- 1. Start the Backend Server
- 2. Send a Server Available request to the backend with an invalid queue_id

3. Receive a 400 Bad Request response with an error response body

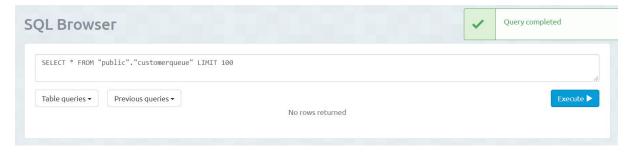
```
{
    "error": "You have an invalid json body",
    "code": "INVALID_JSON_BODY"
}
```

4. Go to ElephantSQL to inspect the **customerQueue** table

Expected Result: No update in the customerQueue table, there are still 0 rows

Actual Result: No update in the **customerQueue** table, there are still 0 rows (**PASS**) Evidence:



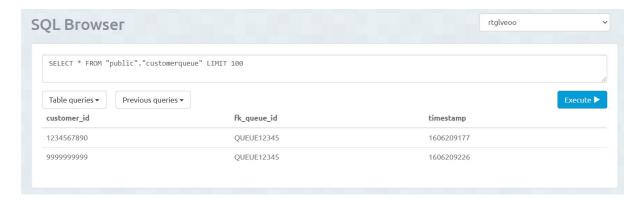


Check Queue Test Case 1 (Success)

Title: Check Queue API - Successful request customer check queue in database

Description: A successful request made to the server should generate the number of customers in a queue. When there are customers ahead in the queue, **ahead** will return the number of customers ahead.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 2 rows of data with the same queue_id 'QUEUE12345' with different customer_id 1234567890 and customer_id 99999999999 in customerQueue table.



Test Steps:

- 1. Start the Backend Server
- 2. Send a Check Queue request to the backend with a **valid customer_id** and an **existing** and **valid queue_id** in the url params.

3. Receive a **200 OK** response and a response body:

```
{
    "total": 2,
    "ahead": 1,
    "status": "ACTIVE"
}
```

Expected Result: Receive a 200 OK response with the total number of customers (2), the number of customers ahead (1) and status ("ACTIVE") in the response body.

Actual Result: Receive a 200 OK response with the total number of customers (2), the number of customers ahead (1) and status ("ACTIVE") in the response body. (PASS)

```
//Check Queue Test Case 2 (Success - Next to be assigned to server)

Send Request

GET http://{{host}}{{path}}?queue_id=QUEUE12345&customer_id=999999999} HTTP/1.1

1 HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 39
6 ETag: W/"27-FPBusDhgXlgE4ePu+i7KzztXS9k"
7 Date: Wed, 25 Nov 2020 13:51:01 GMT
8 Connection: close
9
10 V{
11 "total": 2,
12 "ahead": 1,
13 "status": "ACTIVE"
14 }
```

Check Queue Test Case 2 (Success - Next to be assigned to server)

Title: Check Queue API - Successful request customer check queue in database

Description: A successful request made to the server should generate the number of customers in a queue. When there is no customer ahead in the queue, it'll return ahead: 0.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 2 rows of data with the same queue_id 'QUEUE12345' with different customer_id 1234567890 and customer_id 99999999999 in customerQueue table.



Test Steps:

- 1. Start the Backend Server
- 2. Send a Check Queue request to the backend with a **valid customer_id** and an **existing** and **valid queue_id** in the url params.

```
GET
http://{{host}}{{path}}?queue_id=QUEUE12345&customer_id=1234567890
HTTP/1.1
```

3. Receive a 200 OK response and a response body:

```
{
    "total": 2,
    "ahead": 0,
    "status": "ACTIVE"
}
```

Expected Result: Receive a 200 OK response with the total number of customers (2), the number of customers ahead (0) and status ("ACTIVE") in the response body

Actual Result: Receive a 200 OK response with the total number of customers (2), the number of customers ahead (0) and status ("ACTIVE") in the response body (PASS)

```
5 references
@host = localhost:3000
5 references
@path = /customer/queue

//Check Queue Test Case 1 (Success)
Send Request
GET http://{{host}}{{path}}?queue_id=QUEUE12345&customer_id=1234567890} HTTP/1.1

### HTTP/1.1 200 OK
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 39
6 ETag: W/"27-5I3+nUXNuJGv+TTze61cN6MQ8uk"
7 Date: Wed, 25 Nov 2020 13:50:07 GMT
8 Connection: close
9
10 \times {
11 "total": 2,
12 "ahead": 0,
13 "status": "ACTIVE"
14 }
```

Check Queue Test Case 3 (Success - Customer not in queue(Never Joined/Missed) /Customer Id not provided)

Title: Check Queue API - Successful request customer check queue in database

Description: A successful request made to the server should generate the number of customers in a queue. When there is no customer in queue or no **customer id** provided, it'll return **ahead:** -1.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 2 rows of data with the same queue_id 'QUEUE12345' with different customer_id 1234567890 and customer_id 9999999999 in customerQueue table.



Test Steps:

- 1. Start the Backend Server
- 2. Send a Check Queue request to the backend with only a **valid queue_id** and **no customer id** in the url params.

```
GET http://{{host}}{{path}}?queue_id=QUEUE12345 HTTP/1.1
```

3. Receive a 200 OK response and a response body:

```
{
    "total": 2,
    "ahead": -1,
    "status": "ACTIVE"
}
```

Expected Result: Receive a 200 OK response with the total number of customers (2), the number of customers ahead (-1) and status ("ACTIVE") in the response body

Actual Result: Receive a 200 OK response with the total number of customers (2), the number of customers ahead (-1) and status ("ACTIVE") in the response body (PASS)

```
//Check Queue Test Case 3 (Success - Customer not in queue(Never Joined/Missed)
//Customer Id not provided)

Send Request

GET http://{{host}}{{path}}?queue_id=QUEUE12345&customer_id=5678904321} HTTP/1.1

HTTP/1.1 200 OK

2 X-Powered-By: Express

3 Access-Control-Allow-Origin: *

4 Content-Type: application/json; charset=utf-8

5 Content-Length: 40

6 ETag: W/"28-kxYuRphHzMlbMqOTjMKa8RerMZ4"

7 Date: Wed, 25 Nov 2020 13:52:33 GMT

Connection: close

9

10 × {
11 "total": 2,
12 "ahead": -1,
13 "status": "ACTIVE"

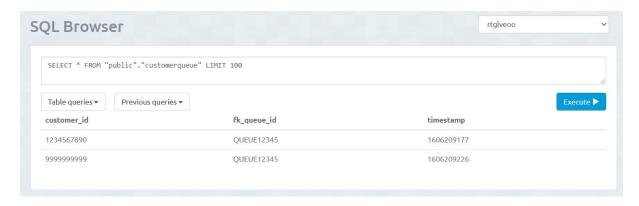
14 }
```

Check Queue Test Case 4 (Error - Non-existence Queue Id)

Title: Check Queue API - Unsuccessful request customer check queue in database

Description: An unsuccessful request made to the server should generate an error message with status code 404.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 2 rows of data with the same queue_id 'QUEUE12345' with different customer_id 1234567890 and customer id 9999999999 in customerQueue table.



Test Steps:

- 1. Start the Backend Server
- 2. Send a Check Queue request to the backend with a **valid customer_id** and a **non-existent** and **valid queue id** in the url params.

```
GET
http://{{host}}{{path}}?queue_id=1234567890&customer_id=1234567890
HTTP/1.1
```

3. Receive a 404 Not Found response with an error response body

```
{
    "error": "Queue Id 1234567890 Not Found",
    "code": "UNKNOWN_QUEUE"
}
```

Expected Result: Receive a **404 Not Found** response with the error message and error code ("UNKNOWN QUEUE") in the response body

Actual Result: Receive a **404 Not Found** response with the error message and error code ("UNKNOWN_QUEUE") in the response body (**PASS**)

```
//Check Queue Test Case 4 (Error - Non-existence Queue Id)

Send Request

GET http://{{host}}{{path}}?queue_id=1234567890&customer_id=1234567890} HTTP/1.1

1 HTTP/1.1 404 Not Found
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
5 Content-Length: 64
6 ETag: W/"40-S3Qm+hmncNFsci0RLKIK/aayV8g"
7 Date: Wed, 25 Nov 2020 13:54:56 GMT
8 Connection: close
9
10 × {
11 "error": "Queue Id 1234567890 Not Found",
12 "code": "UNKNOWN_QUEUE"
13 }
```

Check Queue Test Case 5 (Error - Error in query parameters)

Title: Check Queue API - Unsuccessful request customer check queue in database

Description: An unsuccessful request made to the server should generate an error message with status code 400.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 2 rows of data with the same queue_id 'QUEUE12345' with different customer_id 1234567890 and customer_id 9999999999 in customerQueue table.



Test Steps:

- 1. Start the Backend Server
- Send a Check Queue request to the backend with an invalid customer_id with less than 10 digits and an existing and valid queue_id in the url params.

```
GET
http://{{host}}{{path}}?queue_id=QUEUE12345&customer_id=123456789
HTTP/1.1
```

3. Receive a 400 Bad Request response with an error response body

```
{
    "error": "You have an invalid query",
    "code": "INVALID_QUERY_STRING"
}
```

Expected Result: Receive a **400 Bad Request** response with the error message and error code ("INVALID QUERY STRING") in the response body

Actual Result: Receive a **400 Bad Request** response with the error message and error code ("INVALID_QUERY_STRING") in the response body (**PASS**)

```
//Check Queue Test Case 5 (Error - Error in query parameters)

Send Request

GET http://{{host}}{{path}}?queue_id=QUEUE12345&customer_id=123456789} HTTP/1.1

1 HTTP/1.1 400 Bad Request

2 X-Powered-By: Express

3 Access-Control-Allow-Origin: *

4 Content-Type: application/json; charset=utf-8

5 Content-Length: 67

6 ETag: W/"43-W14QiQGuz+nhthvCdsT4kUzaEpQ"

7 Date: Wed, 25 Nov 2020 13:55:40 GMT

8 Connection: close

9

10 > {
11 "error": "You have an invalid query",
12 "code": "INVALID_QUERY_STRING"

13 }
```

Arrival Rate Test Case 1 (Success)

Title: Arrival Rate API - Successful request to get the timestamp and number of customers from database

Description: A successful request made to the server should return a response body with timestamp and number of customers.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 2 rows of data with the same queue_id 'QUEUE12345' with different customer_id 1234567890 and customer id 9999999999 in customerQueue table.



Test Steps:

- 1. Start the Backend Server
- 2. Send an Arrival Rate request to the backend with a **valid queue_id**, **from** (starting time) and **duration** in the URL query

```
GET
http://localhost:3000/company/arrival_rate?queue_id=queue12345
&from=2020-11-24T21%3A11%3A00%2B08%3A00&duration=1 HTTP/1.1
```

3. Receive a **200 OK** response with a response body

Expected Result: Receive a **200 OK** response with 2 objects in an array with **timestamp** and number of customers (**count**) in each object in the response body

Actual Result: Receive a **200 OK** response with 2 objects in an array with **timestamp** and number of customers (**count**) in each object in the response body (**PASS**)

```
HTTP/1.1 200 OK
@host = localhost:3000
                                                                     2 X-Powered-By: Express
                                                                    3 Access-Control-Allow-Origin: *
4 Content-Type: application/json; charset=utf-8
@path = /company/arrival_rate
                                                                    5 Content-Length: 75
                                                                    6 ETag: W/"4b-opyUBC4vaa92MLusNNK1LtWu/DM"
                                                                    7 Date: Tue, 24 Nov 2020 16:46:25 GMT
GET http://{{host}}{{path}}
                                                                        Connection: close
        ?queue_id=QUEUE12345
        &from=2020-11-25T00%3A45%3A00%2B08%3A00
        &duration=5 HTTP/1.1
                                                                             "timestamp": 1606236338,
                                                                             "count": "1"
                                                                             "timestamp": 1606236336,
                                                                             "count": "1"
```

Arrival Rate Test Case 2 (Error - Non-existence Queue Id)

Title: Arrival Rate API - Non-existence queue_id request prevents getting the timestamp and number of customers from database

Description: An unsuccessful request made to the server should generate an error message with the status code 404.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 2 rows of data with the same queue_id 'QUEUE12345' with different customer_id 1234567890 and customer id 9999999999 in customerQueue table.



Test Steps:

- 1. Start the Backend Server
- Send an Arrival Rate request to the backend with a non-existent and valid queue_id, a valid from (starting time) and a valid duration in the URL query

```
GET
http://localhost:3000/company/arrival_rate?queue_id=queue12346
&from=2020-11-24T21%3A11%3A00%2B08%3A00&duration=1 HTTP/1.1
```

3. Receive a **404** Not Found response with an error response body

```
{
    "error": "Queue Id queue12346 Not Found",
    "code": "UNKNOWN_QUEUE"
}
```

Expected Result: Receive a **404** Not Found response with the error message and error code ("UNKNOWN QUEUE") in the response body

Actual Result: Receive a **404 Not Found** response with the error message and error code ("UNKNOWN_QUEUE") in the response body (**PASS**)

Arrival Rate Test Case 3 (Error - Error in query parameters)

Title: Arrival Rate API - Error in query parameters request prevents getting the timestamp and number of customers from database

Description: An unsuccessful request made to the server should generate an error message with the status code 400.

Precondition: companyQueue and customerQueue table created, 1 row with queue_id 'QUEUE12345' and status 'ACTIVE' in companyQueue table and 2 rows of data with the same queue_id 'QUEUE12345' with different customer_id 1234567890 and customer_id 99999999999 in customerQueue table.



Test Steps:

- 1. Start the Backend Server
- Send an Arrival Rate request to the backend with an existing and valid queue_id, an invalid from (starting time) and a valid duration in the URL query

```
GET
http://localhost:3000/company/arrival_rate?queue_id=queue12345
&from=2020-10-12T07:35:00Z&duration=5 HTTP/1.1
```

3. Receive a 400 Bad Request response with an error response body

```
{
    "error": "You have an invalid query",
    "code": "INVALID_QUERY_STRING"
}
```

Expected Result: Receive a **400 Bad Request** response with the error message and error code ("INVALID_QUERY_STRING") in the response body

Actual Result: Receive a **400 Bad Request** response with the error message and error code ("INVALID_QUERY_STRING") in the response body (**PASS**)

Reset Test Case 1 (Success)

Title: Reset API - Successful request reset all tables in database

Description: A successful request made to the server resets all that data in both companyQueue and customerQueue table

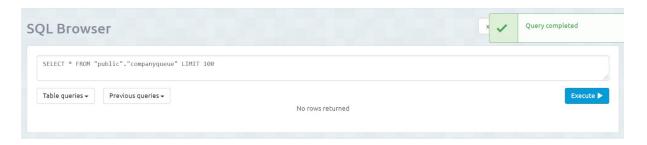
Precondition: **companyQueue** and **customerQueue** table created with at least 1 row of data exists in both **companyQueue** and **customerQueue** table

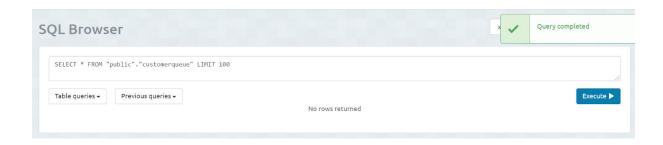
Test Steps:

- 1. Start the Backend Server
- 2. Send an Reset request to the backend
- 3. Receive a 200 OK response
- 4. Go to elephantsql to inspect companyQueue and customerQueue table

Expected Result: All the data in **companyQueue** and **customerQueue** table are deleted

Actual Result: All the data in **companyQueue** and **customerQueue** table are deleted (**PASS**)





Scenario Test Cases

Company 1234567890 creates Queue 'QUEUE12345'

Title: Create Queue API - Successful request creates **Queue** '**QUEUE12345**' in database

Description: A successful request made to the server should create a new entry in the **companyQueue** table with the correct parameters.

Precondition: **companyQueue** table created with no existing **queue_id**.

Test Steps:

- Start the Backend Server
- Send a Create Queue request to the backend with a valid company_id and a valid queue_id

```
{
    "company_id": 1234567890,
    "queue_id": "QUEUE12345"
}
```

- 3. Receive a **201 Created** response
- 4. Go to elephantsql to inspect the companyQueue table

Expected Result: Queue 'QUEUE12345' is created in the companyQueue table

Actual Result: Queue 'QUEUE12345' is created in the companyQueue table (PASS)

```
// Company 1234567890 creates Queue 'QUEUE12345'

Send Request

POST http://{{host}}{{pathCompany}} HTTP/1.1

Content-Type: application/json

{
    "company_id": 1234567890,
    "queue_id": "QUEUE12345"
}

HTTP/1.1 201 Created

2    X-Powered-By: Express

3    Access-Control-Allow-Origin: *

4    Date: Wed, 25 Nov 2020 07:14:53 GMT

5    Connection: close
6    Content-Length: 0

7

8
```



Company 1234567890 activates Queue 'QUEUE12345'

Title: Update Queue API - Successful request updates queue **status** in database to 'ACTIVATE'

Description: A successful request made to the server should update the **status** of the queue that already exists in the **companyQueue** table with the correct parameters.

Precondition: -

Test Steps:

5. Send an Update Queue request to the backend with a valid **status** 'Activate' in the json body

```
{
    "status": "ACTIVATE"
}
```

- 6. Receive a 200 OK response
- 7. Go to elephantsql to inspect the **companyQueue** table

Expected Result: The status of the queue is changed to 'ACTIVE'

Actual Result: The status of the queue is changed to 'ACTIVE' (PASS)

```
###

// Company 1234567890 activates Queue 'QUEUE12345'

Send Request
PUT http://{{host}}{{pathCompany}}?queue_id=QUEUE12345 HTTP/1.1

Content-Type: application/json

{
    "status": "ACTIVATE"
}

HTTP/1.1 200 OK

2    X-Powered-By: Express
3    Access-Control-Allow-Origin: *
4    Date: Wed, 25 Nov 2020 07:15:32 GMT
5    Connection: close
6    Content-Length: 0
7
8
}
```



Customer 3456789012 joins queue 'QUEUE12345'

Title: Join Queue API - Successful request results in **Customer 3456789012** joining **Queue 'QUEUE12345'**

Description: A successful request made to the server should create a new entry in the customerQueue table with the correct parameters (customer_id = 3456789012, queue_id = QUEUE12345).

Precondition: There should be no rows existing in the **customerQueue** table.

Test Steps:

8. Send an Join Queue request to the backend with a valid **customer_id**, and an existing and valid **queue_id** in the json body

- 9. Receive a 201 Created response
- 10. Go to elephantsql to inspect the customerQueue table

Expected Result: Customer 3456789012 joined the Queue 'QUEUE12345'

Actual Result: Customer 3456789012 joined the Queue 'QUEUE12345' (PASS)

```
###
// Customer 3456789012 joins queue 'QUEUE12345'
Send Request
POST http://{{host}}{{pathCustomer}} HTTP/1.1
Content-Type: application/json

{
    "customer_id": 3456789012,
    "queue_id": "QUEUE12345"
}

HTTP/1.1 201 Created
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
4 Date: Wed, 25 Nov 2020 07:15:54 GMT
Connection: close
6 Content-Length: 0
7
8
9
1 HTTP/1.1 201 Created
2 X-Powered-By: Express
3 Access-Control-Allow-Origin: *
9 Date: Wed, 25 Nov 2020 07:15:54 GMT
7
8
9 Touris and Post of the Connection of
```



Customer 999999999 joins queue 'QUEUE12345'

Description: A successful request made to the server should create a new entry in the customerQueue table with the correct parameters (customer_id = 9999999999, queue_id = QUEUE12345).

Precondition: Customer 999999999 does not exist in customerQueue table.

Test Steps:

11. Send an Join Queue request to the backend with a **different valid customer_id** and the **same valid queue_id** in the json body

- 12. Receive a 201 Created response
- 13. Go to elephantsql to inspect the **customerQueue** table

Expected Result: **Customer 9999999999** joined the **Queue 'QUEUE12345'**, there are now 2 existing customers in the **Queue 'QUEUE12345'**

Actual Result: **Customer 9999999999** joined the **Queue 'QUEUE12345'**, there are now 2 existing customers in the **Queue 'QUEUE12345'** (**PASS**)

```
###

// Customer 999999999 joins queue 'QUEUE12345'

Send Request

POST http://{{host}}{{pathCustomer}} HTTP/1.1

Content-Type: application/json

{
    "customer_id": 999999999,
    "queue_id": "QUEUE12345"

}

HTTP/1.1 201 Created

X.-Powered-By: Express

Access-Control-Allow-Origin: *

Date: Wed, 25 Nov 2020 07:16:30 GMT

Connection: close

Content-Length: 0

7

8
```



Company 1234567890 assign next customer to server when server is available

Title: Server Available API - Successful request returns the customer id of the next customer and updates the **customerQueue** table

Description: A successful request made to the server should check if the queue exists, return the next **customer id** of the queue, and update the **customerQueue** table.

Precondition: -

Test Steps:

14. Send the Server Available request to the backend with a valid queue_id

```
{
    "queue_id": "QUEUE12345"
}
```

15. Receive a 200 OK response with a response body

```
{
    "customer_id": 3456789012
}
```

16. Go to elephantsql to inspect the **customerQueue** table

Expected Result: There is only **Customer 9999999999** left in the **Queue** '**QUEUE12345**' in the customer Queue table

Actual Result: There is only **Customer 999999999** left in the **Queue** '**QUEUE12345**' in the customerQueue table (**PASS**)

Evidence:

```
###

// Company 1234567890 assign next customer to server
// when server is available
Send Request
PUT http://{{host}}/company/server
Content-Type: application/json

###

// Company 1234567890 assign next customer to server
// when server is available
Send Request
PUT http://{{host}}/company/server
HTTP/1.1

Content-Type: application/json; charset=utf-8

Content-Length: 26
ETag: W/"la-udPYziA02dsb0VQTyiqDF7VqaSc"

Date: Wed, 25 Nov 2020 07:17:28 GMT

Connection: close

| "queue_id": "QUEUE12345"
}

10 × {
11 "customer_id": 3456789012
12 }
```



Customer 9999999999 checks Queue 'QUEUE12345'

Title: Check Queue API - Successful request customer check queue in database

Description: A successful request made to the server should generate the number of customers in a queue. When there are customers ahead in the queue, **ahead** will return the number of customers ahead.

Precondition: -

Test Steps:

17. Send a Check Queue request to the backend with a valid and existing customer_id and queue_id in the url params.

Expected Result: Receive a 200 OK response with the total number of customers (1), the number of customers ahead (0) and status ("ACTIVE") in the response body.

Actual Result: Receive a 200 OK response with the total number of customers (1), the number of customers ahead (0) and status ("ACTIVE") in the response body. (PASS)

Evidence:

Company 1234567890 checks for the number of arrivals within a certain period of time

Title: Arrival Rate API - Successful request to get the timestamp and number of customers from database

Description: A successful request made to the server should return a response body with timestamp and number of customers.

Precondition: -

Test Steps:

- 18. Start the Backend Server
- 19. Send an Arrival Rate request to the backend with **queue_id**, **from** (starting time) and **duration** in the URL query

```
GET
http://localhost:3000/company/arrival_rate?queue_id=queue12345
&from=2020-11-24T21%3A11%3A00%2B08%3A00&duration=1 HTTP/1.1
```

20. Receive a **200 OK** response with a response body

}]

Expected Result: Receive a **200 OK** response with a **timestamp** and number of customers (**count**) in the response body

Actual Result: Receive a **200 OK** response with a **timestamp** and number of customers (**count**) in the response body (**PASS**)

Evidence:

```
###

// Company 1234567890 checks for the number of arrivals for Queue
Send Request

GET http://{{\lost}}/company/arrival_rate
?queue_id=QUEUE12345

&from=2020-11-25T15%3A20%3A00%2B08%3A00
&duration=10 HTTP/1.1

###

// Company 1234567890 checks for the number of arrivals for Queue

/Q

Access-Control-Allow-Origin: *

Content-Type: application/json; charset=utf-8

Content-Length: 38

ETag: W/"26-yzKrrMPCuCjdes+beGl1v0LZyvA"

Date: Wed, 25 Nov 2020 07:23:51 GMT

Connection: close

9

10 > [
11 > {
12   "timestamp": 1606288946,
13   "count": "1"

14  }
15 ]
```

Company 1234567890 deactivates Queue 'QUEUE12345'

Title: Update Queue API - Successful request updates queue **status** in database to '**INACTIVE**'

Description: A successful request made to the server should update the **status** of the queue that already exists in the **companyQueue** table with the correct parameters.

Precondition: -

Test Steps:

21. Send an Update Queue request to the backend with a valid **status** '**DEACTIVATE**' in the json body

```
{
    "status": "DEACTIVATE"
}
```

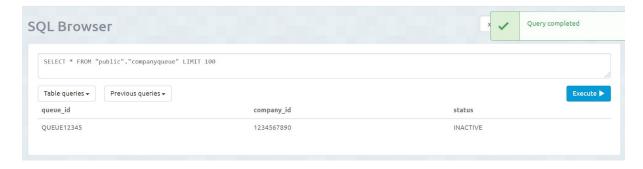
- 22. Receive a 200 OK response
- 23. Go to elephantsql to inspect the companyQueue table

Expected Result: The status of the queue is changed to 'INACTIVE'

Actual Result: The status of the queue is changed to 'INACTIVE' (PASS)

Evidence:





Reset System

Title: Reset API - Successful request resets all tables in database

Description: A successful request made to the server resets all that data in both companyQueue and customerQueue table

Precondition: -

Test Steps:

- 24. Start the Backend Server
- 25. Send an Reset request to the backend
- 26. Receive a 200 OK response
- 27. Go to elephantsql to inspect companyQueue and customerQueue table

Expected Result: All the data in **companyQueue** and **customerQueue** table are deleted

Actual Result: All the data in **companyQueue** and **customerQueue** table are deleted (**PASS**)

```
###

// Reset System

Send Request

POST http://{{host}}/reset

HTTP/1.1 200 OK

2 X-Powered-By: Express

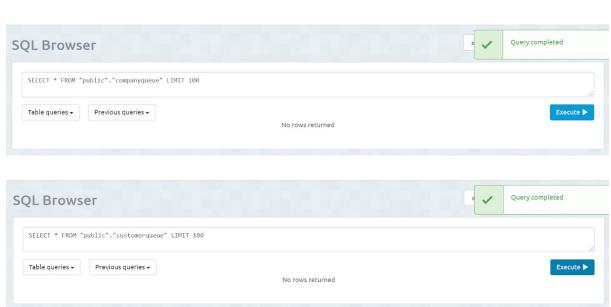
3 Access-Control-Allow-Origin: *

4 Content-Length: 0

5 ETag: W/"0-2jmj715rSw0yVb/vlWAYkK/YBwk"

6 Date: Wed, 25 Nov 2020 07:26:04 GMT

7 Connection: close
```



SCRUM meetings

SCRUM Meeting 1 (09/11/2020): Week 4

Present: Lynette Jean Tay Tsai Pei Yu Tan Jia Xin Vanessa

1. What have you done?

Lynette Jean Tay: Clone repository

Tsai Pei Yu: Clone repository

Tan Jia Xin Vanessa: Clone repository

2. How is the progress?

Lynette Jean Tay: Good, no issues

Tsai Pei Yu: Good, no issues

Tan Jia Xin Vanessa: Good, no issues

3. What are you going to do next?

Lynette Jean Tay: Create and design database, create product backlog in github repository, reset and Create Queue API

Tsai Pei Yu: Create and design database, create product backlog in github repository, Update Queue API

Tan Jia Xin Vanessa: Create and design database, create product backlog in github repository, Join Queue API

SCRUM Meeting 2 (16/11/2020): Week 5

Present: Lynette Jean Tay Tsai Pei Yu Tan Jia Xin Vanessa

1. What have you done?

Lynette Jean Tay: Create and design database, create product backlog in github repository, reset and Create Queue API

Tsai Pei Yu: Create and design database, create product backlog in github repository, Update Queue API

Tan Jia Xin Vanessa: Create and design database, create product backlog in github repository, Join Queue API

2. How is the progress?

Lynette Jean Tay: Good, no issues

Tsai Pei Yu: Good, no issues

Tan Jia Xin Vanessa: Good, no issues

3. What are you going to do next?

Lynette Jean Tay: Server Available API
Tsai Pei Yu: Arrival Rate API and Pool
Tan Jia Xin Vanessa: Check Queue API

SCRUM Meeting 3 (23/11/2020): Week 6

Present: Lynette Jean Tay Tsai Pei Yu Tan Jia Xin Vanessa

1. What have you done?

Lynette Jean Tay: Server Available API
Tsai Pei Yu: Arrival Rate API and Pool
Tan Jia Xin Vanessa: Check Queue API

2. How is the progress?

Lynette Jean Tay: Good, no issues

Tsai Pei Yu: Good, no issues

Tan Jia Xin Vanessa: Good, no issues

3. What are you going to do next?

Lynette Jean Tay: Test case and documentation

Tsai Pei Yu: Test case and documentation

Tan Jia Xin Vanessa: Test case and documentation