



Mediscreen API Documentation

Patient Microservice API Documentation

Microservice url is configured to serve datas on **localhost:9001/api/**.

GET /patients

This route gets the list of every patients registered in database

Successful response example

URL : **localhost:9001/api/patients**

```
[
  {
    "id": "ED88884",
    "firstName": "ETIENNE",
    "lastName": "DUPONT",
    "dateOfBirth": "1998-12-31",
    "gender": "M",
    "address": "123 rue des Pommiers",
    "phone": "789-101-1112"
  },
  {
    "id": "RD11971",
    "firstName": "RENÉE",
    "lastName": "DUPONT",
    "dateOfBirth": "1938-12-31",
    "gender": "F",
    "address": "789 rue des Tulipes",
    "phone": "986-123-4444"
  }
]
```

GET /patients?firstName=[firstName]&lastName=[lastName]

This route gets patients that are registered with the given first name and last name.

Successful response example

URL : localhost:9001/api/patients?firstName=Etienne&lastName=Dupont

```
[
  {
    "id": "ED88884",
    "firstName": "ETIENNE",
    "lastName": "DUPONT",
    "dateOfBirth": "1998-12-31",
    "gender": "M",
    "address": "123 rue des Pommiers",
    "phone": "789-101-1112"
  },
  {
    "id": "ED45951",
    "firstName": "ETIENNE",
    "lastName": "DUPONT",
    "dateOfBirth": "1968-12-31",
    "gender": "M",
    "address": "456 Rue des Cerisiers",
    "phone": "808-404-2020"
  }
]
```

Unsuccessful response example

```
{
  "time": "2022-11-15T17:43:24.868+00:00",
  "status": "NOT_FOUND",
  "message": "The patient with given first name and last name was not found"
}
```

GET /patients/{id}

This route gets a patient by its ID. Only one patient will be returned from this route, if the patient exists.

Successful response example

URL : localhost:9001/api/patients/RD11971/

```
{
  "id": "RD11971",
  "firstName": "RENÉE",
  "lastName": "DUPONT",
  "dateOfBirth": "1938-12-31",
  "gender": "F",
  "address": "789 rue des Tulipes",
  "phone": "986-123-4444"
}
```

Unsuccessful response example

This route returns null (This is voluntary and facilitates communication with other microservices).

POST /patients/

This route creates a patient. Fields are validated and a custom error message will be returned if there are any.

Successful content example

URL : localhost:9001/api/patients/

```
{
  "firstName": "firstName",
  "lastName": "lastName",
  "dateOfBirth": "YYYY-MM-DD",
  "gender": "M",
  "address": "Address",
  "phone": "XXX-XXX-XXXX"
}
```

Note : Gender takes either the value of M (for "Male") or F (for "Female").

400 Bad Request

```
{
  "time": "2022-11-15T17:44:11.668+00:00",
  "status": "BAD_REQUEST",
  "message": "The following fields are incorrect : phone"
}
```

PUT /patients/{id}/

This route updates a patient given its ID. Fields are validated and a custom error message will be returned if there are any. The following JSON can be used in the body to send datas (the same that is used on POST route) :

Successful content example

URL : `localhost:9001/api/patients/RD11971/`

```
{
  "firstName": "RENÉE",
  "lastName": "DUPONT",
  "dateOfBirth": "1938-12-31",
  "gender": "F",
  "address": "789 rue des Tulipes, Boite Postale 2",
  "phone": "986-123-4444"
}
```

400 Bad Request

```
{
  "time": "2022-11-15T17:45:57.779+00:00",
  "status": "BAD_REQUEST",
  "message": "The following fields are incorrect : phone"
}
```

DELETE /patients/{id}

This route deletes a patient from database, given its ID. It also deletes attached notes from the notes microservice (if there are any). A message will indicate if the operation is successful.

Successful response example

URL : `localhost:9001/api/patients/ED88884/`

```
Patient with id 'ED88884' was successfully deleted. Notes attached to him were also deleted.
```

503 Service Unavailable

```
{
  "time": "2022-11-15T18:05:28.834+00:00",
  "status": "SERVICE_UNAVAILABLE",
  "message": "Notes microservice is not started. Cannot delete patient."
}
```

404 Not Found

```
{
  "time": "2022-11-15T17:46:48.108+00:00",
  "status": "NOT_FOUND",
  "message": "Patient with given ID was not found."
}
```

Notes Microservice API Documentation

Microservice url is configured to serve datas on **localhost:9002/api/**.

In order to function, patient microservice must be started.

GET /notes/{patientId}

Get every notes related to a given patient (recognizable by its ID). Response is composed of multiple notes.

Successful response example

URL : **localhost:9002/api/notes/RD11971/**

```
[
  {
    "id": "6372910a44d5562320acad2e",
    "date": "2022-11-14T19:03:38.096+00:00",
    "patientId": "RD11971",
    "content": "Patient has gained 10 lbs in 1 month"
  },
  {
    "id": "637290f244d5562320acad2d",
    "date": "2022-11-14T19:03:14.847+00:00",
    "patientId": "RD11971",
    "content": "Patient states that she is a smoker"
  }
]
```

404 Not Found

```
{
  "time": "2022-11-15T17:54:39.082+00:00",
  "status": "NOT_FOUND",
  "message": "Patient with given ID was not found"
}
```


GET /note/{noteId}

This route gets a single note, based on the note ID.

Successful response example

URL : localhost:9002/api/note/6372910a44d5562320acad2e

```
{
  "id": "6372910a44d5562320acad2e",
  "date": "2022-11-14T19:03:38.096+00:00",
  "patientId": "RD11971",
  "content": "Patient has gained 10 lbs in 1 month"
}
```

Unsuccessful response example

This route returns null (This is voluntary and facilitates communication with other microservices).

POST /notes/

This route creates a note for a given patient. Patient must exist in order to add notes.

Successful content example

URL : localhost:9002/api/notes

```
{
  "patientId": "RD11971",
  "content": "Patient states that she is a smoker"
}
```

400 Bad Request

```
{
  "time": "2022-11-15T17:56:33.676+00:00",
  "status": "BAD_REQUEST",
  "message": "The following fields are incorrect : content"
}
```

404 Not Found

```
{
  "time": "2022-11-15T17:57:02.045+00:00",
  "status": "NOT_FOUND",
  "message": "Patient with given ID was not found"
}
```

PUT /notes/{noteId}

This route updates a note based on its ID. Patient must exist in order to update the note, and the note must be linked to the given patientID.

Successful content example

URL : `localhost:9002/api/notes/6372910a44d5562320acad2e`

```
{
  "patientId": "RD11971",
  "content": "Patient has gained too much weight in a week"
}
```

400 Bad Request

```
{
  "time": "2022-11-15T17:56:33.676+00:00",
  "status": "BAD_REQUEST",
  "message": "The following fields are incorrect : content"
}
```

404 Not Found

```
{
  "time": "2022-11-15T17:57:02.045+00:00",
  "status": "NOT_FOUND",
  "message": "Patient with given ID was not found"
}
```

DELETE /notes/{noteId}

This route delete a single note based on its ID. If the operation is successful, a boolean set to true is returned.

Successful response example

URL : localhost:9002/api/notes/637290f244d5562320acad2d

```
true
```

404 Not Found

```
{
  "time": "2022-11-15T17:59:38.803+00:00",
  "status": "NOT_FOUND",
  "message": "Note with given ObjectID was not found"
}
```

DELETE /notes/all/{patientId}/

This route deletes every notes included in the patient history. It is used primarily by the patients microservice when DELETE route is called. If the operation is successful, a boolean set to true is returned.

Successful response example

URL : `localhost:9002/api/notes/all/RD11971`

```
true
```

404 Not Found

```
{
  "time": "2022-11-15T18:01:32.798+00:00",
  "status": "NOT_FOUND",
  "message": "Patient with given ID was not found"
}
```

Reports Microservice API Documentation

Microservice url is configured to serve datas on `localhost:9003/api/`.

GET `/reports/generate/{patientId}`

This is the only route and it returns datas to assemble the report with complete sentences.

Successful response example

URL : `localhost:9003/api/reports/generate/RD11971`

```
{
  "patientId": "RD11971",
  "firstName": "RENÉE",
  "lastName": "DUPONT",
  "gender": "F",
  "birthdate": "1938-12-31",
  "age": 83,
  "risk": "Borderline",
  "triggers": [
    "smoker",
    "weight"
  ]
}
```

503 Service Unavailable

```
{
  "time": "2022-11-16T10:02:40.400+00:00",
  "status": "SERVICE_UNAVAILABLE",
  "message": "Patient microservice is not started. Cannot generate report."
}
```

404 Not Found

```
{
  "time": "2022-11-16T10:03:41.144+00:00",
  "status": "NOT_FOUND",
  "message": "Patient with given ID was not found"
}
```