

EMR web api documentation

Introduction

This is the documentation of Medstreaming EMR Api.

You will find all available Apis and the details of every api. Including its url, parameters, Description, Response sample and the expected errors.

Authentication

API	Description
POST api/Authentication/GetToken	Get a token to be used for any other request authentication. (The user name and password should be sent in the request authorization header)

PatientsInfo

A token should be generated first and should be sent with each api call in the request authorization header. (User name = token , password = THEGENERATEDTOKEN)

API	Description
POST api/PatientsInfo/GetMRN?firstName={ firstName } &lastName={ lastName } &gender={ gender } &dob={ dob } &middleName={ middleName }	Serach for a patient by first name, middle name, last name, birthdate and gender and return patient MRN.
POST api/PatientsInfo/GetId?firstName={ firstName } &lastName={ lastName } &gender={ gender } &dob={ dob } &middleName={ middleName }	Serach for a patient by first name, middle name, last name, birthdate and gender and return patient Id.

API	Description
<u>POST</u> <u>api/PatientsInfo/GetPatientData?patientId={patientId}</u>	Search for a patient by patient id and return all patient data.
<u>POST</u> <u>api/PatientsInfo/GetPatientData?patientId={patientId}&date={date}</u>	Search for a patient by patient id and return all patient data in specific period.
<u>POST</u> <u>api/PatientsInfo/GetPatientData?patientId={patientId}&startDate={startDate}&endDate={endDate}</u>	Search for a patient by patient id and return all patient data in specific period.
<u>POST</u> <u>api/PatientsInfo/GetPatientDataByCategory?patientId={patientId}&categorycode={categorycode}</u>	Get specific category / categories of the patient data.
<u>POST</u> <u>api/PatientsInfo/GetPatientDataByCategory?patientId={patientId}&categorycode={categorycode}&date={date}</u>	Get specific category / categories of the patient data in specific date.
<u>POST</u> <u>api/PatientsInfo/GetPatientDataByCategory?patientId={patientId}&categorycode={categorycode}&startDate={startDate}&endDate={endDate}</u>	Get specific category / categories of the patient data in specific period.

APIs details

POST api/Authentication/GetToken

Get a token to be used for any other request authentication. (The user name and password should be sent in the request authorization header)

Response Information

Response body formats

application/json, text/json

Sample:

```
"sample string"
```

application/xml, text/xml

Sample:

```
<string xmlns="http://schemas.microsoft.com/2003/10/Serialization/">sample string</string>
```

Expected Errors

Name	Http Status Code	Http Status Title	Response example
Wrong User Name Or Password Exception	403	Forbidden	wrong user name or password
General Exception	500	InternalServerError or	An error has occurred.

POST

api/PatientsInfo/GetMRN?firstName={firstName}&lastName={lastName}&gender={gender}&dob={dob}&middleName={middleName}

Search for a patient by first name, middle name, last name, birthdate and gender and return patient MRN.

Request Information

Parameters

Name	Description	Type	Additional information
firstName	First Name	String	Required
lastName	Last Name	String	Required
gender	Gender	String	Required
dob	Birthdate	DateTime	Required
middleName	Middle Name	String	Optional

Response Information

Response body formats

application/json, text/json

Sample:

```
"sample string"
```

application/xml, text/xml

Sample:

```
<string xmlns="http://schemas.microsoft.com/2003/10/Serialization/">sample string</string>
```

Expected Errors

Name	Http Status Code	Http Status Title	Response example
Patient Not Found Exception	404	NotFound	Can't find patient with the follwing information : First name : Smith, Middle name: T, Last name: Roy, Gender Id: Male, Dob: 10/23/2017 10:07:43 AM
InValid Token Exception	401	Unauthorized	Invalid token.
TokenExpired Exception	401	Unauthorized	Token expired.
General Exception	500	InternalServerError	An error has ocured.
UnAuthorized DataAccess Exception	403	Forbidden	UnAuthorized access to patient information

POST

api/PatientsInfo/GetId?firstName={firstName}&lastName={lastName}&gender={gender}&dob={dob}&middleName={middleName}

Search for a patient by first name, middle name, last name, birthdate and gender and return patient Id.

Request Information

Parameters

Name	Description	Type
firstName	First Name	String
lastName	Last Name	String
gender	Gender	String
dob	Birthdate	DateTime
middleName	Middle Name	String

Response Information

Response body formats

application/json, text/json

Sample:

1

application/xml, text/xml

Sample:

```
<int xmlns="http://schemas.microsoft.com/2003/10/Serialization/">1</int>
```

Expected Errors

Name	Http Status Code	Http Status Title	Response example
Patient Not Found Exception	404	NotFound	Can't find patient with the following information : First name : Smith, Middle name: T, Last name: Roy, Gender Id: Male, Dob: 10/23/2017 10:07:43 AM
InValid Token Exception	401	Unauthorized	Invalid token.
Token Expired Exception	401	Unauthorized	Token expired.
General Exception	500	InternalServerError	An error has occurred.
Unauthorized Data Access Exception	403	Forbidden	UnAuthorized access to patient information

POST api/PatientsInfo/GetPatientData?patientId={patientId}

Search for a patient by patient id and return all patient data.

Request Information

Parameters

Name	Description	Type
patientId	Patient Id	Int32

Response Information

Response body formats

application/json, text/json

Sample:

```
"sample string"
```

application/xml, text/xml

Sample:

```
<string xmlns="http://schemas.microsoft.com/2003/10/Serialization/">sample string</string>
```

Expected Errors

Name	Http Status Code	Http Status Title	Response example
Patient Not Found Exception	404	NotFound	Can't find patient with the follwing information : First name : Smith, Middle name: T, Last name: Roy, Gender Id: Male, Dob: 10/23/2017 10:07:43 AM
Patient Data File Not Found Exception	404	NotFound	Can't find the patient data for patient id : 555

Name	Http Status Code	Http Status Title	Response example
InValid Token Exception	401	Unauthorized	Invalid token.
TokenExpiredException	401	Unauthorized	Token expired.
General Exception	500	InternalServerError	An error has occurred.
Unauthorized DataAccess Exception	403	Forbidden	Unauthorized access to patient information

POST

api/PatientsInfo/GetPatientData?patientId={patientId}&date={date}

Search for a patient by patient id and return all patient data in specific period.

Request Information

Parameters

Name	Description	Type
patientId	Patient Id	Int32
date	The date that will be used to filter the patient data	DateTime

Response Information

Response body formats

application/json, text/json

Sample:

```
"sample string"
```

application/xml, text/xml

Sample:

```
<string xmlns="http://schemas.microsoft.com/2003/10/Serialization/">sample string</string>
```

Expected Errors

Name	Http Status Code	Http Status Title	Response example
Patient Not Found Exception	404	NotFound	Can't find patient with the follwing information : First name : Smith, Middle name: T, Last name: Roy, Gender Id: Male, Dob: 10/23/2017 10:07:43

Name	Http Status Code	Http Status Title	Response example
			AM
Patient Data File Not Found Exception	404	NotFound	Can't find the patient data for patient id : 555
InValid Token Exception	401	Unauthorized	Invalid token.
TokenExpiredException	401	Unauthorized	Token expired.
General Exception	500	InternalServerError	An error has occurred.
Unauthorized DataAccess Exception	403	Forbidden	Unauthorized access to patient information

POST

api/PatientsInfo/GetPatientData?patientId={patientId}&startDate={startDate}&endDate={endDate}

Search for a patient by patient id and return all patient data in specific period.

Request Information

Parameters

Name	Description	Type
patientId	Patient Id	Int32
startDate	Start Date	DateTime
endDate	End Date	DateTime

Response Information

Response body formats

application/json, text/json

Sample:

```
"sample string"
```

application/xml, text/xml

Sample:

```
<string xmlns="http://schemas.microsoft.com/2003/10/Serialization/">sample string</string>
```

Expected Errors

Name	Http Status Code	Http Status Title	Response example
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Name	Http Status Code	Http Status Title	Response example
Patient Not Found Exception	404	NotFound	Can't find patient with the follwing information : First name : Smith, Middle name: T, Last name: Roy, Gender Id: Male, Dob: 10/23/2017 10:07:43 AM
Patient Data File Not Found Exception	404	NotFound	Can't find the patient data for patient id : 555
InValid Token Exception	401	Unauthorized	Invalid token.
TokenExpiredException	401	Unauthorized	Token expired.
General Exception	500	InternalServerError	An error has occured.
Unauthorized DataAccess Exception	403	Forbidden	Unauthorized access to patient information

POST

api/PatientsInfo/GetPatientDataByCategory?patientId={patientId}&categorycode={categorycode}

Get specific category / categories of the patient data.

Request Information

Parameters

Name	Description	Type
patientId	Patient Id	Int32
categorycode	Patient data category code / codes.	String

Response Information

Response body formats

application/json, text/json

Sample:

```
"sample string"
```

application/xml, text/xml

Sample:

```
<string xmlns="http://schemas.microsoft.com/2003/10/Serialization/">sample string</string>
```

Expected Errors

Name	Http Status Code	Http Status Title	Response example
Patient Not Found	404	NotFound	Can't find patient with the follwing information : First name : Smith, Middle name: T, Last name: Roy, Gender Id: Male, Dob: 10/23/2017 10:07:43

Name	Http Status Code	Http Status Title	Response example
Exception			AM
Patient Data File Not Found Exception	404	NotFound	Can't find the patient data for patient id : 555
InValid Token Exception	401	Unauthorized	Invalid token.
TokenExpiredException	401	Unauthorized	Token expired.
General Exception	500	InternalServerError	An error has occurred.
UnAuthorized DataAccess Exception	403	Forbidden	UnAuthorized access to patient information

POST

api/PatientsInfo/GetPatientDataByCategory?patientId={patientId}&categorycode={categorycode}&date={date}

Get specific category / categories of the patient data in specific date.

Request Information

Parameters

Name	Description	Type	Additional information
patientId	Patient Id	Int32	Required
categorycode	Patient data category code / codes.	String	Required
date	The date of patient information	DateTime	Required

Response Information

Response body formats

application/json, text/json

Sample:

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"sample string"
```

application/xml, text/xml

Sample:

```
<string xmlns="http://schemas.microsoft.com/2003/10/Serialization/">sample string</string>
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Expected Errors

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POST

api/PatientsInfo/GetPatientDataByCategory?patientId={patientId}&categorycode={categorycode}&startDate={startDate}&endDate={endDate}

Get specific category / categories of the patient data in specific period.

Request Information

Parameters

Name	Description	Type	Additional information
patientId	Patient Id	Int32	Required
categorycode	Patient data category code / codes.	String	Required
startDate	Start Date	DateTime	Required
endDate	End Date	DateTime	Required

Response Information

Response body formats

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Patient Data File Not Found Exception	404	NotFound	Can't find the patient data for patient id : 555
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