

piclinic.org

piClinic - API

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13-16 minutes

The [piClinic Console](#) exposes the piClinic API for automated testing and application development.

These piClinic API resources are available to developers:

- [icd](#) - search supported ICD-10 diagnostic codes
- [session](#) - open and close sessions to access the piClinic API resources

piClinic API users must be authenticated by a username and password and some resources require user accounts with specific authorizations.

NOTE: The piClinic API is designed to run on your own server so the URLs shown in this documentation do not reference a specific server. When you see a reference to `piclinic_host`, substitute that with the Host Address of the server you're running the piClinic API on to create the complete URL.

Request format

GET method requests pass parameters as query parameters and POST method requests can pass data as `application/json` data or as query parameters; however, passing as `application/json` data can prevent the data from appearing in server logs. API requests that require authorization, must also include an **X-piClinic-token** header with a valid session token. Session tokens are obtained by calling the **session** API.

X-piClinic-token:

c1cbed0e_082f_4c85_afaa_3e4286b840fd

GET request example with query parameters

`https://piclinic_host/api/icd.php?c=R51&language=en`

where *piclinic_host* is the host address.

Success response format

Generally, API requests return a JSON response that consists of these objects:

Object	Contents
data	The requested data, if any is returned
count	The number of elements returned in data . This is 0 when no data is returned.
status	The status code and additional information about the response
debug	Detailed information about the request for debugging (development systems only)

Note that the nature of the `data` object depends on the value of `count`.

Count	Data
0	An empty string
1	A single object as defined by the resource
>1	An array of objects defined by the resource

When reading the data objects, be sure to check the count value to access them correctly.

Success response example

```
{
```

```

    "count": 1,
    "data": {
      "language": "en",
      "icd10code": "R51",
      "icd10index": "R51",
      "shortDescription": "Headache",
      "useCount": "1",
      "lastUsedDate": "2019-06-12 18:24:13"
    },
    "status": {
      "httpResponse": 200,
      "httpReason": "Success-1"
    }
  }
}

```

Error response format

Error responses usually contain:

Object	Contents
data	Empty or null
count	0
status	A non "200" status code and an explanation of the error.
debug	Detailed information about the request for debugging (development systems only)

Error response example

```

{
  "count": 0,
  "data": "",
  "status": {
    "httpResponse": 404,
    "httpReason": "Resource not found. No
Records."

```

```

    }
}

```

These piClinic API resources are available to developers:

- [icd](#) - search supported ICD-10 diagnostic codes
- [session](#) - open and close sessions to access the piClinic API resources

***icd* resource**

The **icd** resource contains ICD-10 (CIE-10) diagnostic codes in English and Spanish.

URL: `https://piclinic_host/api/icd.php`

The ICD-10 is the International Classification of Diseases (10th Revision) or, in Spanish, (CIE-10) La Clasificación internacional de enfermedades (Décima edición), which describes and provides a code for thousands of diseases and is managed by the World Health Organization. The piClinic Console supports the ICD-10, 2008-version, to the first decimal place, which provides about 12,000 codes in English and Spanish.

Note, some diagnostic codes are supported in only one language.

Method	Token required?	Action
GET	Yes	Look up a code and its description

GET method

Returns the selected ICD-10 code object or objects.

GET request parameters

A GET request must include one, and only one, of **q**, **t**, or **c**.

Parameter	Value	Function	Example
q	free text	Return codes with description text or code	q=Headache

Parameter	Value	Function	Example
		value that contains the parameter value	
t	free text	Return codes with description text that contains the parameter value	t=Headache
c	ICD-10 code	Return codes with a code value that matches the parameter value	c=R51

A GET request can also include any or all of these parameters to organize the response data.

Parameter	Values	Function	Example
language	en or es	filter results to return only the specified language	language=en
sort	c, t, or d	sort the returned data by ascending code , text , or <i>last-used date</i>)	sort=c

GET request example

```
https://piclinic_host/api/icd.php?c=R51&language=en
```

where **piclinic_host** is the host address.

GET response example

```
{
  "count": 1,
  "data": {
    "language": "en",
    "icd10code": "R51",
```

```

        "icd10index": "R51",
        "shortDescription": "Headache",
        "useCount": "1",
        "lastUsedDate": "2019-06-12 18:24:13"
    },
    "status": {
        "httpResponse": 200,
        "httpReason": "Success-1"
    }
}

```

GET response data properties

Properties	Data type	Description
icd10code	string	ICD-10 code with decimal formatting
icd10index	string	ICD-10 code with no decimal formatting
language	enum: en, es	Language code of the response data
lastUsedDate	datetime	Date & time the diagnosis code was assigned to a patient record
shortDescription	string	Description of disease that corresponds to the <code>icd10code</code>
useCount	number	The number of times the diagnosis has been assigned to a patient record since the system was installed

session resource

The **session** resource contains the valid user sessions that can

access the piClinic API.

URL: `https://piclinic_host/api/session.php`

Method	Token required?	Action
GET	Yes	Look up a token to get its validity and access authorizations
POST	No	Create a new session
PATCH	Yes	Update the settings of a current session
DELETE	Yes	Close a session and invalidate its token

The normal sequence of session interaction is to:

1. POST a session to create a new session and receive its token
2. GET a session using the token to test its access (this usually done only by administrators and is not commonly used by an application)
3. PATCH a session to change its default settings
4. DELETE a session to close it and invalidate its token so it cannot be used again

GET method

Returns information about the selected user session.

GET request parameters

The **X-piClinic-token** header value is used to identify the session owner making the request and, for most users, the query parameters are ignored. System administrators, however, can request information about another session by passing its token as a query parameter.

Parameter	Values	Function	Example
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Parameter	Values	Function	Example
token	a valid session token	tests token for validity and returns access information (SystemAdmin access only)	token=c1cbcd0e_082f_4c85_afaa_3e4286l

GET request example

`https://piclinic_host/session.php`

where ***piclinic_host*** is the host address.

GET response example

```
{
  "count": 1,
  "data": {
    "token":
"dd710b65_2434_4326_927a_823596170770",
    "sessionIP": "66.115.183.147",
    "sessionUA": "PostmanRuntime/7.13.0",
    "username": "SystemAdmin",
    "loggedIn": 1,
    "accessGranted": "SystemAdmin",
    "sessionLanguage": "en",
    "sessionClinicPublicID": null,
    "createdDate": "2019-06-13 13:32:31",
    "expiresOnDate": "2019-06-14 13:32:31"
  },
  "status": {
    "httpResponse": 201,
    "httpReason": "New session created."
  }
}
```

GET response properties

Properties	Data type	Description
accessGranted	enum: SystemAdmin, ClinicAdmin, ClinicStaff, ClinicReadOnly	Access authorization level
loggedIn	Boolean	1 = active session, 0 = expired or closed session
sessionIP	IP address	The IP of the user account
sessionUA	Text	The User Agent of the user's browser when the session was created
token	Token GUID	The token created when the session was created
sessionLanguage	enum: en, es	Language code of the response data
username	Text	The user's username
sessionClinicPublicID	Text	Reserved.
createdDate	datetime	The date and time the session

Properties	Data type	Description
		was created.
expiresOnDate	datetime	The date and time the session will expire automatically.

POST method

Validates the credentials passed and creates a new user session if they are valid.

POST request parameters

The **X-piClinic-token** header value is not required for POST requests

Parameter	Values	Function	Example
username	a valid username (not case sensitive)	identify the user for whom to create a new session	(see example below)
password	the password for the user (case sensitive)	authenticate the user creating a new session	(see example below)

POST request example

`https://piclinic_host/session.php`

where **piclinic_host** is the host address.

Note, a **X-piClinic-token** header is not required for a POST request.

POST data object example

```
{
```

```

        "username": "TestUser",
        "password": "MyPassword"
    }

```

POST response example

```

{
  "count": 1,
  "data": {
    "token":
"8c7300aa_bb77_4dd3_9126_93eb72645876",
    "sessionIP": "66.115.183.147",
    "sessionUA": "PostmanRuntime/7.13.0",
    "username": "TestUser",
    "loggedIn": 1,
    "accessGranted": "SystemAdmin",
    "sessionLanguage": "en",
    "sessionClinicPublicID": null,
    "createdDate": "2019-06-13 13:17:17",
    "expiresOnDate": "2019-06-14 13:17:17"
  },
  "status": {
    "httpResponse": 201,
    "httpReason": "New session created."
  }
}

```

POST response properties

Properties	Data type	Description
accessGranted	enum: SystemAdmin, ClinicAdmin, ClinicStaff, ClinicReadOnly	Access authorization level

Properties	Data type	Description
loggedIn	Boolean	1 = active session, 0 = expired or closed session
sessionIP	IP address	The IP of the user account
sessionUA	Text	The User Agent of the user's browser when the session was created
token	Token GUID	The token created when the session was created
sessionLanguage	enum: en, es	Language code of the response data
username	Text	The user's username
sessionClinicPublicID	Text	Reserved.
createdDate	datetime	The date and time the session was created.
expiresOnDate	datetime	The date and time the session will expire automatically.

PATCH method

Updates selected properties of a session.

PATCH request parameters

Parameter	Values	Function	Example
sessionLanguage	en or es	Sets the session's default language	sessionLanguage=es

The **sessionLanguage** property is the only session property that can be modified.

PATCH request example

```
https://piclinic_host
/session.php&sessionLanguage=es
```

where **piclinic_host** is the host address.

PATCH response example

```
{
  "count": 1,
  "data": {
    "token":
"8c7300aa_bb77_4dd3_9126_93eb72645876",
    "username": "TestSA",
    "accessGranted": "SystemAdmin",
    "sessionLanguage": "es",
    "sessionClinicPublicID": null
  },
  "status": {
    "httpResponse": 200,
    "httpReason": "Success"
  }
}
```

PATCH response properties

Properties	Data type	Description
accessGranted	enum: SystemAdmin, ClinicAdmin, ClinicStaff, ClinicReadOnly	Access authorization level
token	Token GUID	The token created when the session was created
sessionLanguage	enum: en, es	Language code of the response data
username	Text	The user's username
sessionClinicPublicID	Text	Reserved.

DELETE method

Closes the specified session.

DELETE request parameters

The DELETE request requires only a **X-piClinic-token** header.

DELETE request example

```
https://piclinic_host/session.php
```

DELETE response example

```
{
  "count": 0,
```

```
"data": "",  
"status": {  
  "httpResponse": 200,  
  "httpReason": "User session deleted."  
}  
}
```

DELETE response properties

The DELETE method returns no data, only status information.