
Gocodo YourChart Client Documentation

Release 0.1

Gocodo

October 28, 2014

1	Overview	3
1.1	Hospitals	3
1.2	Data	8
1.3	API Clients	9
2	Getting Started	11
2.1	Node.js	11
2.2	Objective-C	12
2.3	.Net	13
2.4	Reporting Bugs	13
3	Calls	15
3.1	Authenticate	15
3.2	AcceptTermsConditions	15
3.3	GetAccountDetails	15
3.4	GetBillsAndStatements	15
3.5	GetEncounter	16
3.6	GetMessageDetail	16
3.7	GetTermsConditions	16
3.8	GetTestDetail	16
3.9	ListAlerts	16
3.10	ListAllergies	16
3.11	ListCurrentHealthIssues	17
3.12	ListFutureAppointments	17
3.13	ListHealthAdvisory	17
3.14	ListImmunizations	17
3.15	ListInbox	17
3.16	ListMedications	17
3.17	ListMessageRecipients	18
3.18	ListPatientAccesses	18
3.19	ListPastAppointments	18
3.20	ListTestResults	18
3.21	LogAudit	18
4	Models	21
4.1	Account	21
4.2	AccountDemographics	21
4.3	Alert	21

4.4	Allergy	22
4.5	Appointment	22
4.6	AppointmentListResult	22
4.7	AttachementSettings	23
4.8	AuditLog	23
4.9	Authenticate	23
4.10	AuthenticateResponse	23
4.11	BillSummary	24
4.12	BillingAccountDetailsRequest	24
4.13	BillingAccountDetailsResponse	25
4.14	BillsAndStatementsSummary	25
4.15	Component	25
4.16	CurrentHealthIssue	25
4.17	Diagnosis	26
4.18	Encounter	26
4.19	FeatureInformation	26
4.20	From	27
4.21	HealthAdvisory	27
4.22	Immunization	27
4.23	MedicalAdviceSettings	27
4.24	Medication	28
4.25	Message	28
4.26	MessageDetail	29
4.27	MessageListResult	29
4.28	MessageViewer	30
4.29	Order	30
4.30	PatientAccess	30
4.31	Pharmacy	30
4.32	Provider	31
4.33	RecentPayment	31
4.34	Test	31
4.35	TestDetail	32
4.36	TestListResult	32
4.37	To	33
4.38	Vitals	33
4.39	WPLog	33
4.40	WPMMessageRecipient	34
4.41	WPObject	34
5	Contribute	35
5.1	MyChart Test logins	35
5.2	Source	35
6	About	37
6.1	YourChart Client	37
6.2	Gocodo	37
7	Indices and tables	39

The Gocodo YourChart Client is set of programmatic descriptions and webservice client for Epic's [MyChart Mobile product](#). With this, a programmer can quickly connect to and retrieve the health records on behalf of individuals for use in applications.

Contents:

Overview

The Gocodo YourChart Client is a set of programmatic clients for Epic's [MyChart Mobile product](#). With this, a programmer can quickly connect to and retrieve the health records of an individual. Gocodo YourChart Client currently supports connecting to about 250 different *hospital systems*. A handful of applications that this set of client libraries could be used to create include:

- Creating a Personal Health Record (PHR) application (mobile/ web)
- A Personal Health Record system that aggregates health records across many different hospital systems
- A way to prove a person is who they say they are and have particular conditions/ go to particular medical systems
- Transfer basic information on individuals going to a new doctor
- Gathering information for a clinical trial

All a developer needs to get started are an individual's MyChart hospital location, username, password, and approval to access their health records.

1.1 Hospitals

The following is a list of health system's and hospitals that are currently supported by the Gocodo YourChart Client. The main requirement for being supported is that the health system/ hospital has MyChart Mobile enabled for their deployment of Epic MyChart.

OrgId	Health System/ Hospital Name	MyChart Branding
412-2	Access Community Health Centers	MyChart
762	Access Community Health Network	myACCESSHEALTH
302	Adventist Health	MyChart MyHealth
691	Akron Children's	MyChart
870	Alegent Creighton Health	MyChart
465	Allina	MyChart
714	Altru	MyHealth
688	Anne Arundel	MyChart
435	Arnett	MyChart
843	Asante Health System	MyChart
163	Atrius Health	MyHealth
443	Austin Regional Clinic	MyChart
782	Baptist Health	MyChart
875	Baptist Memorial Health Care	Baptist OneCare
514-2	Barton Health	MyChart

Continued on next page

Table 1.1 – continued from previous page

OrgId	Health System/ Hospital Name	MyChart Branding
778	Bassett Healthcare	MyBassett Health Connection
830-2	The Baton Rouge Clinic	MyChart
663	Baylor	MyChart
485	Beaumont	myBeaumontChart
880	Boston Medical Center	BMC MyChart
509-3	Broadway	MyChart
804	Bronson	Bronson MyChart
883	Brookdale University Hospital and Medical Center	MyBrookdale
509-2	Buffalo Clinic	MyChart
317	Buffalo Medical Group	MyBMGChart
650	Cadence Health	MyChart
445	Cambridge Health Alliance	MyChart
600	Carilion	MyChart
316	Carle	MyCarle
742	Catholic Health Partners	MyChart
765-2	GHV-Catskill	MyChart
612	Cedars-Sinai	My CS-Link
515	CentraCare	MyChart
160	Children’s Hospital Colorado	MyChart
553	Children’s Omaha	Children’s Connect
815	Children’s Hospital of Wisconsin	MyChart
871	Children’s Hospital Oakland	MyChart
655	The Christ Hospital	MyChart
773	Catholic Health Services of Long Island	CHS MyChart
565	Cincinnati Children’s	MyChart
320	Cleveland Clinic	MyChart
594	Children’s Medical Center Dallas	MyChart
834	Community Health Network	MyChart
750	Community Healthcare System	MyChart
797	Cone Health	MyChart Powered by Cone Health
578	Cooper	MyCooper
545	Covenant HealthCare	MyChart
854	Cheyenne Regional Medical Center	MyChart
722	Dartmouth	myD-H
567	Dayton Children’s Hospital	MyKidsChart
703	Deaconess	ViewMyChart.com
415-1	Dean Clinic	MyChart
465-6	District One Hospital	MyChart
515-2	Douglas County Hospital	MyChart
342	Dreyer	MyChart
835	Duke University Health System	Duke MyChart
206	DuPage Medical Group	MyChart
265	East Boston Neighborhood Health Center	MyChart
517-2	East Carolina University Physicians	ECU MyChart
206-2	Edward	Edward MyChart
333	Elliot	MyEChart
343	Essentia Health	MyHealth
312	Fairview	MyChart
866	Franciscan Health Services	Franciscan MyChart
465-1	FirstLight	MyChart
648	Franciscan Alliance	MyChart

Continued on next page

Table 1.1 – continued from previous page

OrgId	Health System/ Hospital Name	MyChart Branding
453	Froedtert	MyChart
735	Genesis	MyChart
801	Glens Falls Hospital	GFH MyChart
465-5	Glencoe Regional Health Services	MyChart
748	Grady Health System	MyChart
465-3	Grand Itasca	MyChart
413	GHC	GHCMyChart
605	Gundersen Health System	MyCare
433	Guthrie	eGuthrie
701	Hackensack UMC	MyChart
420	HCHD	MyHealth
795	Hattiesburg	Iris
471	Hawaii Pacific Health	MyHealthAdvantage
510	Hennepin	MyChart
848	Henry Ford Health System	Henry Ford MyChart
774	Hurley Medical Center	MyChart
465-4	Hutchinson Health	MyChart
694	Infirmery	MyChart
816	Inova Health System	MyChart
826	John C. Lincoln	MyChart
842	Johns Hopkins Medicine	MyChart
789	JPS Health Network	JPS MyChart
148	Kelsey-Seybold	MyKelseyOnline
749	Kettering	MyChart
631	KDMC	MyChart
569	University of Kansas Hospital	MyChart
652	Lakeland HealthCare	Lakeland Health MyChart
538	Lancaster	MyLGHealth
523	Lee Memorial Health System	MyChart
671	Legacy Health System	MyHealth
461	Loyola Medicine	MyLoyolaSelect
779	LSU	MyChart
633	MaineHealth	MyChart
706	Maricopa	MyChart
786	Martin Memorial	MyChart
682	Health Ventures	MyChart
775	MediSys Health Network	MediSys MyChart
763	Memorial Healthcare System	MyChart
549	MHS	MyChart
864	Mercy Medical Center	MyChart
876	Mercy Health Services	MyChart Mercy
450	Meriter	MyChart
530	Metro Health	MyChart
292	MetroHealth OH	MyChart
846	Memorial Health	MyChart
452	Monroe Clinic	MyChart
850	HCA	MyChart
658	Mount Sinai Florida	MyChart
279	MultiCare	MyChart
824	MUSC Health	MyChart
456	Aspirus	MyAspirus

Continued on next page

Table 1.1 – continued from previous page

OrgId	Health System/ Hospital Name	MyChart Branding
306-2	Bellin	My Bellin Health
590	BonSecours	MyBonSecours
426	IFH	MyChartMyHealth
758	Providence Health & Services	
808	Providence Health & Services	
802	Providence Health & Services	
223	Geisinger	MyGeisinger
343-2	MyHealth	Powered by Essentia Health
780	Kadlec	Kadlec My K-Chart
836	Loma Linda	My LLU Health
498	MemorialCare	myChart
513	MountSinai	My Mount Sinai Chart
297	UPenn	myPennMedicine
791	University of Michigan	MyUofMHealth
814	UC Health	My UC Health
525	Nationwide Children’s Hospital	MyChart
825	The Nebraska Medical Center	One Chart PATIENT
321	Nemours	MyNemours
509	North Memorial	MyChart
840	North Oaks Health System	MyChart
431	NorthShore University HealthSystem	NorthShoreConnect
338	Northwestern Medicine	Northwestern Medicine’s MyChart
819	Norton Healthcare	MyChart
798	Novant	MyNovant
718	NYU Langone	MyChart at NYU Langone
432	OCHIN	MyChart
796	Ochsner Health System	MyOchsner
557	OSU	OSUMyChart
504	Oregon Health and Science University	OHSU MyChart
765	GHV-ORMC	MyChart
596	OSF HealthCare	OSF myHealth
830-3	Our Lady of the Lake	MyChart
851	Overlake	ONE Chart
781	Owensboro	MyChart
720	Pacific Medical Center	MyChart
675	Park Nicollet	MyChart
300	Parkland	MyChart
838	Parkview Health	MyChart
853	PeaceHealth	PatientConnection
425	Ascension - Providence HealthCare Network	MyChart
839	Piedmont Healthcare	MyChart
512-2	Polyclinic	MyChart
494	Premier Health Partners	MyChart
792	ProHealth Care	MyChart
805	Provena	MyChart
637	Rady Children’s	MyChart at Rady Children’s
844	Reading Health System	MyChart
511	Reliant Medical Group	MyChart
514	Renown	MyChart
787	Resurrection Health Care	MyChart
515-4	Rice Memorial Hospital	MyChart

Continued on next page

Table 1.1 – continued from previous page

OrgId	Health System/ Hospital Name	MyChart Branding
771	Riverside Medical Clinic	My Healthy Connection
436	Riverbend Medical Group	MyChart
772	Rochester General	MyCare
756	Rockford Health System	RHS MyChart
294	Rush University Medical Center	MyChart
442	TMC	Saguaro Physicians MyChart
516	Salem	MyChart
849	Samaritan Health Services	MyChart
856	Scott & White Healthcare	MyChart
507	Sanford	My Sanford Chart
785	Sansum	MyChart
855	Santa Clara	MyHealth Online
645	Sisters of Charity of Leavenworth Health System	MyChart
531	Sentara	Sentara MyChart
822	Singing River Health System	MyChart
804-2	South Haven Health System	MyChart
684	Sparrow Health System	MySparrow
648-2	Specialty Physicians of Illinois	MyChart
618-1	SSM Health Care	MyChart
618	SSM	MyChart
618-2	St. Anthony	MyChart
680	St Anthony's Medical Center	MyChart
541	Stanford	MyHealth
857	Stanford Children's Health	MyChart
465-7	St. Croix Regional Medical Center	MyChart
830	St. Elizabeth	MyChart
712	St. Elizabeth Healthcare	MyChart
618-3	St. Francis	MyChart
888	Saint Francis Health System	MyChart
891	St Joseph's Hospital Health Center	My St. Joseph's
799	St. Luke's	MyChart
845	St Luke's Health System	MyChart
441	SHHS and Prevea Health	MyPrevea
768	Stormont Vail Health Care	MyChart
278	Sutter Health	My Health Online
512	Swedish	MyChart
428	Talbert	TMG4ME
761	Tampa General Hospital	MyChart
660	TempleHealth	myTempleHealth
551	Texas Children's	MyChart
491	THR	MyCare
306	Thedacare	MyThedaCare
410	CHOP	MyChart
584	The Everett Clinic	MyChart
759	The Vancouver Clinic	MyChart@TVC
821	The Portland Clinic	MyChart
515-3	Tri-County Health Care	MyChart
319	TriHealth	MyChart
832	Trinity Mother Frances	MyChart
865	University of Arkansas for Medical Sciences	MyChart
451	UC Davis	MyChart

Continued on next page

Table 1.1 – continued from previous page

OrgId	Health System/ Hospital Name	MyChart Branding
806	UCLA Medical Center	myUCLAhealth
502	UCSD	MyUCSDChart
166	UCSF	
677	University of Florida	MyChart
882	UNC Health Care	My UNC Chart
465-2	United Family Medicine	MyChart
790	UnityPoint Health	MyUnityPoint
859	University of Arizona Health Network	MyChart
755	University of Colorado Hospital	My Health Connection
810	UHCS	UHMyChart
779-2	University Health	University Health MyChart
434	University Hospital	MyChart
592	UIHC	MyChart
784	University of Mississippi Medical Center	MyChart
555	University of Maryland Medical System	MyPortfolio
747	University of Miami	MyUHealthChart
303	University of Utah	
737	University of Virginia	MyChart UVA
312-2	University of Minnesota	MyChart
261	UPMC	MyUPMC
753	SUNY	MyChart
751	University of Rochester	MyChart
477	UTMB	MyChart
582	UT Medicine San Antonio	MyChart
408	UTSW	MyChart
412	UW Health	MyChart
255	UW Medicine	eCare
817	Valley Medical Center	MyChart
517	Vidant Health	Vidant Health MyChart
823	Wake Forest	myWakeHealth
409	Weill Cornell	Weill Cornell Physicians
863	WellStar	WellStar MyChart
879	Wellmont Health System	MyWellmont
764	Wenatchee Valley	MyChart
563	West Virginia University	MyWVUChart
827	Wheaton Franciscan	MyChart
788	Washington Hospital Health System	WmyChart
415-2	Wildwood Family Clinic	MyChart
800	Yale New Haven Health/Yale Medical Group	MyChart
665	Yuma	MyCare

1.2 Data

A wide array of different types of patient data are available through the use of the Gocodo YourChart Client. For example:

- Immunization history
- Allergies
- Lab results

- Current medications
- Patient facing notes, orders, diagnosis, and medications from a medical encounter (such as a preventative visit)
- Lab results
- Current problems list

This data is made available by hospitals by the MyChart Mobile webservice. Given a location, a username, and a password, and a patients permission, a developer can fetch all of the above information. See the *Models section* for a more complete description of the data made available.

1.3 API Clients

To make it easier for software developers to get quick and secure access to patient records, API clients have been provided for use by Gocodo under an MIT license. Please contact [Michael Wasser](#) at Gocodo for access to the API clients. Currently, the API client is written in the following languages:

- Javascript with Node.js
- .Net
- Objective-C

If you would like support for additional languages, please contact [Michael Wasser](#) at Gocodo. Writing additional clients are relatively strait forward and can generally be completed in less than two days.

Getting Started

To get started, you'll first need access to the API Client of your choice's source code. To get access to the source, please contact [Michael Wasser](#) at Gocodo. Once you have access, you will be able to use the language specific documentation along with the documentation in the *Calls* and *Models* sections to connect to and interact with patient records.

2.1 Node.js

The Gocodo YourChart Client is available as a Node.js npm package. For access to the source, contact [Michael Wasser](#).

Once installed, the package can be include via

```
var YourChartClient = require('yourchart')
```

To create a client, use

```
var client = new YourChartClient('<Epic MyChart Username>', '<Epic MyChart Password>', '<Epic-specific>')
```

To get an organizations id, you can programatically access an array of all known sites using `YourChartClient.sites`. Each site will have an `orgId` which tells the client where to fetch health records from. Each object in the sites array looks like the following example:

```
{
  serviceUrl: 'https://mychart.swedish.org/MyChartWeb/Wcf/Epic.MyChartMobile/MyChartMobile.svc/',
  name: 'Swedish',
  orgId: '512',
  myChartBranding: 'MyChart',
  myChartUserLabel: 'Username',
  locations: [ 'Washington' ],
  timezone: 'America/Los_Angeles'
}
```

Once a client is initialized, any of the listed *Calls* can be used to access patient information. In the node.js client, the names of calls and the properties listed in the resulting *Models* will be camel-cased versions of themselves. E.g. The call documented as `ListPastAppointments` becomes `listPastAppointments` in the node.js client. For each call, the first parameter will be a hash of both request parameters (key would be the name of the parameter) as well as the request model (key would be `requestModel`). The second parameter will be a callback with a first parameter communicating error conditions if they exist and null otherwise, and a second parameter with the request's response model. For example, a call to `getAccountDetails` may look as follows:

```
client.getAccountDetails({
  request_model: {
    billingAccountId: "<account id>",
```

```
        billingAccountType: <account type>
    }
}, function (err, response) {
    if (err) return console.log('Something bad happened!');

    if (response.isPaperless) {
        console.log("User receives paperless statements!");
    }
});
```

Calls to authenticate will be automatically made during the first call and its results will be stored in `authenticateResponse` on the current instance of the client. Manual calls to authenticate will also authorize the client/ store the results for future calls.

Putting it all together:

```
var YourChartClient = require('yourchart'),
    orgId, client;

// Fetch the orgId of Swedish
orgId = YourChartClient.sites.filter(function (elm) { return elm.name == 'Swedish'; })[0];

// Create a client with a MyChart user's credentials
client = new YourChartClient('<Swedish MyChart username>', '<Swedish MyChart password>', orgId);

// Fetch a list of past appointments
client.listPastAppointments({identifier: 0, index: 0}, function (err, data) {
    if (err) return console.log(err.stack);

    console.log("Past Appointments:");
    console.log("=====");

    // Display results of listing past appointments
    console.dir(data);

    if (typeof data.appointmentList !== undefined && data.appointmentList.length > 0) {
        var appointmentID = data.appointmentList[0].dat;

        // Get details for a specific appointment
        epicClient.getEncounter({identifier: 0, appointment_dat: appointmentID}, function (err, data) {
            if (err) return console.log(err.stack);

            console.log("");
            console.log("First Past Appointment Details:");
            console.log("=====");

            // Display specific appointment details
            console.dir(data);
        });
    }
});
```

2.2 Objective-C

TODO: Write

2.3 .Net

TODO: Write

2.4 Reporting Bugs

If you come across a bug in the Gocodo YourChart Client, please report the bug at [Gocodo YourChart](#) or submit a pull request. If you don't have access to the project, please contact [Michael Wasser](#).

Each call bellow will send a web request to the previously selected hospital system. For more information on creating a client and using the given calls, see the client specific documentation (e.g. the *node.js client*).

3.1 Authenticate

TODO: Write this

Request Model: *Authenticate*

Response Model: *AuthenticateResponse*

3.2 AcceptTermsConditions

TODO: Write this

3.3 GetAccountDetails

Used to get an individuals' billing and demographic information. Data for the request model can be found on one of the *Account* included in the response from *GetBillsAndStatements*.

Request Model: *BillingAccountDetailsRequest*

Response Model: *BillingAccountDetailsResponse*

3.4 GetBillsAndStatements

TODO: Write this

Response Model: *BillsAndStatementsSummary*

3.5 GetEncounter

TODO: Write this

Response Model: *Encounter*

3.6 GetMessageDetail

TODO: Write this

Response Model: *MessageDetail*

3.7 GetTermsConditions

TODO: Write this

3.8 GetTestDetail

TODO: Write this

Response Model: *TestDetail*

3.9 ListAlerts

TODO: Write this

Response Model: Array of *Alert*

3.10 ListAllergies

TODO: Write this

Response Model: Array of *Allergy*

3.11 ListCurrentHealthIssues

TODO: Write this

Response Model: Array of *CurrentHealthIssue*

3.12 ListFutureAppointments

TODO: Write this

Response Model: *AppointmentListResult*

3.13 ListHealthAdvisory

TODO: Write this

Response Model: Array of *HealthAdvisory*

3.14 ListImmunizations

TODO: Write this

Response Model: Array of *Immunization*

3.15 ListInbox

TODO: Write this

Response Model: *MessageListResult*

3.16 ListMedications

TODO: Write this

Response Model: Array of *Medication*

3.17 ListMessageRecipients

TODO: Write this

Response Model: *MedicalAdviceSettings*

3.18 ListPatientAccesses

TODO: Write this

Response Model: Array of *PatientAccess*

3.19 ListPastAppointments

TODO: Write this

Response Model: *AppointmentListResult*

3.20 ListTestResults

TODO: Write this

Response Model: *TestListResult*

3.21 LogAudit

TODO: Write this

Request Model: *AuditLog*

Response Model: Boolean

In addition to the calls listed above, support could be theoretically added for any feature seen in MyChart Mobile. Here's a list of calls known to exist at some *hospitals* that are currently unsupported by Gocodo Epic Client:

- Schedule Appointment
- Send Message (to a doctor, nurse, etc)
- Get Imaging Results
- Request Medication Refill

If are working with a site that supports any of the above features and would like to see support added, please look here.

Models

Each model bellow is used in one or more *calls*. For more information on how to fetch the models using a specific client, see the client specific documentation (e.g. the *node.js client*).

4.1 Account

TODO: Write description

Property	Type	Description
Id	String	<i>TODO: Write description</i>
PatientName	String	<i>TODO: Write description</i>
ServiceAreaId	String	<i>TODO: Write description</i>
ServiceAreaName	String	<i>TODO: Write description</i>

Used in models

- *BillSummary*

4.2 AccountDemographics

TODO: Write description

Property	Type	Description
PatientName	String	<i>TODO: Write description</i>
Address	Array of String	<i>TODO: Write description</i>
HomePhone	String	<i>TODO: Write description</i>
WorkPhone	String	<i>TODO: Write description</i>

Used in models

- *BillingAccountDetailsResponse*

4.3 Alert

TODO: Write description

Property	Type	Description
Count	Integer	<i>TODO: Write description</i>
Key	String	<i>TODO: Write description</i>
Type	String	<i>TODO: Write description</i>

4.4 Allergy

TOOD: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
Date	DateTime	<i>TODO: Write description</i>
Reactions	Array of String	<i>TODO: Write description</i>

4.5 Appointment

TOOD: Write description

Property	Type	Description
CancelDirectAllowed	Boolean	<i>TODO: Write description</i>
CancelRequestAllowed	Boolean	<i>TODO: Write description</i>
CancelRequestSent	Boolean	<i>TODO: Write description</i>
IsTimeNull	Boolean	<i>TODO: Write description</i>
ConfirmStatus	Integer	<i>TODO: Write description</i>
Dat	String	<i>TODO: Write description</i>
Date	DateTime	<i>TODO: Write description</i>
IsClinicalInformationAvailable	Boolean	<i>TODO: Write description</i>
IsEDVisit	Boolean	<i>TODO: Write description</i>
IsSurgery	Boolean	<i>TODO: Write description</i>
PatientInstruction	String	<i>TODO: Write description</i>
Provider	<i>Provider</i>	<i>TODO: Write description</i>
SurgeryTimeOfDay	String	<i>TODO: Write description</i>
VisitType	String	<i>TODO: Write description</i>

Used in models

- *AppointmentListResult*

4.6 AppointmentListResult

TOOD: Write description

Property	Type	Description
AppointmentList	Array of <i>Appointment</i>	<i>TODO: Write description</i>
LoadMoreDAT	String	<i>TODO: Write description</i>

Used in calls

- *ListFutureAppointments*
- *ListPastAppointments*

4.7 AttachmentSettings

TODO: Write description

Property	Type	Description
AllowedImageExtensions	Array of String	<i>TODO: Write description</i>
AllowedVideoExtensions	Array of String	<i>TODO: Write description</i>
MaximumAllowed	Integer	<i>TODO: Write description</i>
MaximumImageSize	Integer	<i>TODO: Write description</i>
MaximumVideoSize	Integer	<i>TODO: Write description</i>

Used in models

- *MedicalAdviceSettings*

4.8 AuditLog

TODO: Write description

Property	Type	Description
Logs	Array of <i>WPLog</i>	<i>TODO: Write description</i>
TimeStamp	String	<i>TODO: Write description</i>

Used in calls

- *LogAudit*

4.9 Authenticate

TODO: Write description

Property	Type	Description
Username	String	<i>TODO: Write description</i>
Password	String	<i>TODO: Write description</i>

Used in calls

- *Authenticate*

4.10 AuthenticateResponse

TODO: Write description

Property	Type	Description
AccountID	String	<i>TODO: Write description</i>
Available2011Features	Integer	<i>TODO: Write description</i>
Available2012Features	Integer	<i>TODO: Write description</i>
Available2013Features	Integer	<i>TODO: Write description</i>
HomeURL	String	<i>TODO: Write description</i>
DeviceTimeout	Integer	<i>TODO: Write description</i>
FeatureInformation	<i>FeatureInformation</i>	<i>TODO: Write description</i>
IsAdmitted	Boolean	<i>TODO: Write description</i>
IsPatient	Boolean	<i>TODO: Write description</i>
Name	String	<i>TODO: Write description</i>
ReadOnlyServer	Boolean	<i>TODO: Write description</i>
ShowTerms	String	<i>TODO: Write description</i>
Status	String	<i>TODO: Write description</i>
TermsConditions	String	<i>TODO: Write description</i>
Ticket	String	<i>TODO: Write description</i>
TicketTimeout	Integer	<i>TODO: Write description</i>

Used in calls

- *Authenticate*

4.11 BillSummary

TOOD: Write description

Property	Type	Description
OutstandingBalance	String	<i>TODO: Write description</i>
AcceptPayment	Boolean	<i>TODO: Write description</i>
BillingAccountType	Integer	<i>TODO: Write description</i>
HasNewInfo	Boolean	<i>TODO: Write description</i>
RecentPayment	<i>RecentPayment</i>	<i>TODO: Write description</i>
Account	<i>Account</i>	<i>TODO: Write description</i>
PaymentPlan	String	<i>TODO: Write description</i>
RecentStatement	String	<i>TODO: Write description</i>

Used in models

- *BillsAndStatementsSummary*

4.12 BillingAccountDetailsRequest

TOOD: Write description

Property	Type	Description
BillingAccountId	String	<i>TODO: Write description</i>
BillingAccountType	Integer	<i>TODO: Write description</i>

Used in calls

- *GetAccountDetails*

4.13 BillingAccountDetailsResponse

TODO: Write description

Property	Type	Description
AccountDemographics	<i>AccountDemographics</i>	<i>TODO: Write description</i>
PaymentPlan	String	<i>TODO: Write description</i>
Statements	String	<i>TODO: Write description</i>
IsPaperless	Boolean	<i>TODO: Write description</i>
RecentPayments	String	<i>TODO: Write description</i>
OutstandingBalance	String	<i>TODO: Write description</i>
RecentStatementsEnabled	Boolean	<i>TODO: Write description</i>
UnviewableStatementsAvailable	Boolean	<i>TODO: Write description</i>

Used in calls

- *GetAccountDetails*

4.14 BillsAndStatementsSummary

TODO: Write description

Property	Type	Description
Bills	Array of <i>BillSummary</i>	<i>TODO: Write description</i>
PastStatements	String	<i>TODO: Write description</i>
PaperlessStatus	Integer	<i>TODO: Write description</i>
AllowCancelPaperless	Boolean	<i>TODO: Write description</i>

Used in calls

- *GetBillsAndStatements*

4.15 Component

TODO: Write description

Property	Type	Description
ComponentComments	String	<i>TODO: Write description</i>
Flag	String	<i>TODO: Write description</i>
High	String	<i>TODO: Write description</i>
Low	String	<i>TODO: Write description</i>
Name	String	<i>TODO: Write description</i>
RefRange	String	<i>TODO: Write description</i>
Unit	String	<i>TODO: Write description</i>
Value	String	<i>TODO: Write description</i>

Used in models

- *TestDetail*

4.16 CurrentHealthIssue

TODO: Write description

Property	Type	Description
Date	DateTime	<i>TODO: Write description</i>
Name	String	<i>TODO: Write description</i>

4.17 Diagnosis

TOOD: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>

Used in models

- *Encounter*

4.18 Encounter

TOOD: Write description

Property	Type	Description
CancelDirectAllowed	Boolean	<i>TODO: Write description</i>
CancelRequestAllowed	Boolean	<i>TODO: Write description</i>
CancelRequestSent	Boolean	<i>TODO: Write description</i>
ConfirmStatus	String	<i>TODO: Write description</i>
Dat	String	<i>TODO: Write description</i>
Date	DateTime	<i>TODO: Write description</i>
IsClinicalInformationAvailable	Boolean	<i>TODO: Write description</i>
IsEDVisit	Boolean	<i>TODO: Write description</i>
IsSurgery	Boolean	<i>TODO: Write description</i>
IsTimeNull	Boolean	<i>TODO: Write description</i>
PatientInstruction	String	<i>TODO: Write description</i>
Provider	<i>Provider</i>	<i>TODO: Write description</i>
SurgeryTimeOfDay	String	<i>TODO: Write description</i>
VisitType	String	<i>TODO: Write description</i>
Avs_order	String	<i>TODO: Write description</i>
Diagnoses	Array of <i>Diagnosis</i>	<i>TODO: Write description</i>
FollowUpInstructions	String	<i>TODO: Write description</i>
Medications	Array of <i>Medication</i>	<i>TODO: Write description</i>
Orders	Array of <i>Order</i>	<i>TODO: Write description</i>
Reasons	Array of String	<i>TODO: Write description</i>
Vitals	<i>Vitals</i>	<i>TODO: Write description</i>

Used in calls

- *GetEncounter*

4.19 FeatureInformation

TOOD: Write description

Property	Type	Description
AllowRxRefill	Boolean	<i>TODO: Write description</i>
DisabledFeatures	Array of String	<i>TODO: Write description</i>
EnabledFeatures	Array of String	<i>TODO: Write description</i>

Used in models

- *AuthenticateResponse*
- *PatientAccess*

4.20 From

TODO: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
IsPCP	Boolean	<i>TODO: Write description</i>
OOCEndDate	DateTime	<i>TODO: Write description</i>
PCPType	String	<i>TODO: Write description</i>
RecipTemplate	String	<i>TODO: Write description</i>

Used in models

- *Message*
- *MessageDetail*

4.21 HealthAdvisory

TODO: Write description

Property	Type	Description
DueDate	DateTime	<i>TODO: Write description</i>
DueDateOverride	String	<i>TODO: Write description</i>
LastDoneDate	DateTime	<i>TODO: Write description</i>
Name	String	<i>TODO: Write description</i>
Status	String	<i>TODO: Write description</i>
StatusText	String	<i>TODO: Write description</i>

4.22 Immunization

TODO: Write description

Property	Type	Description
Dates	Array of DateTime	<i>TODO: Write description</i>
Name	String	<i>TODO: Write description</i>

4.23 MedicalAdviceSettings

TODO: Write description

Property	Type	Description
AttachementSettings	<i>AttachementSettings</i>	<i>TODO: Write description</i>
PoolList	String	<i>TODO: Write description</i>
ProviderList	Array of <i>WPMessageRecipient</i>	<i>TODO: Write description</i>
SubjectList	Array of <i>WPObject</i>	<i>TODO: Write description</i>

Used in calls

- *ListMessageRecipients*

4.24 Medication

TOOD: Write description

Property	Type	Description
CanRefill	Boolean	<i>TODO: Write description</i>
CommonBrandName	String	<i>TODO: Write description</i>
DiscontinuedDate	DateTime	<i>TODO: Write description</i>
DosageInfo	String	<i>TODO: Write description</i>
EndDate	DateTime	<i>TODO: Write description</i>
Expiration	String	<i>TODO: Write description</i>
GenericProductIndicator	String	<i>TODO: Write description</i>
HasPendingRefill	Boolean	<i>TODO: Write description</i>
ID	String	<i>TODO: Write description</i>
Instructions	String	<i>TODO: Write description</i>
LastUpdateInstant	String	<i>TODO: Write description</i>
Name	String	<i>TODO: Write description</i>
NdcCode	String	<i>TODO: Write description</i>
Pharmacy	<i>Pharmacy</i>	<i>TODO: Write description</i>
PrescriptionNumber	String	<i>TODO: Write description</i>
ProductName	String	<i>TODO: Write description</i>
Provider	String	<i>TODO: Write description</i>
ProviderID	String	<i>TODO: Write description</i>
RefillPendingStatus	String	<i>TODO: Write description</i>
RefillsRemaining	String	<i>TODO: Write description</i>
RefillsTotal	String	<i>TODO: Write description</i>
StartDate	DateTime	<i>TODO: Write description</i>

Used in models

- *Encounter*

4.25 Message

TOOD: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
Body	String	<i>TODO: Write description</i>
Date	DateTime	<i>TODO: Write description</i>
From	<i>From</i>	<i>TODO: Write description</i>
HasAttachments	Boolean	<i>TODO: Write description</i>
HasIncompleteTask	Boolean	<i>TODO: Write description</i>
Read	Boolean	<i>TODO: Write description</i>
Subject	String	<i>TODO: Write description</i>
To	<i>To</i>	<i>TODO: Write description</i>

Used in models

- *MessageListResult*

4.26 MessageDetail

TOOD: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
Body	String	<i>TODO: Write description</i>
Date	DateTime	<i>TODO: Write description</i>
From	<i>From</i>	<i>TODO: Write description</i>
HasAttachments	Boolean	<i>TODO: Write description</i>
HasIncompleteTask	Boolean	<i>TODO: Write description</i>
Read	Boolean	<i>TODO: Write description</i>
Subject	String	<i>TODO: Write description</i>
To	<i>To</i>	<i>TODO: Write description</i>
AllowAttachmentsForReply	Boolean	<i>TODO: Write description</i>
CanBeReplied	Boolean	<i>TODO: Write description</i>
Note	String	<i>TODO: Write description</i>
Tasks	String	<i>TODO: Write description</i>
Viewers	Array of <i>MessageViewer</i>	<i>TODO: Write description</i>

Used in calls

- *GetMessageDetail*

4.27 MessageListResult

TOOD: Write description

Property	Type	Description
LoadMore	Boolean	<i>TODO: Write description</i>
MessageList	Array of <i>Message</i>	<i>TODO: Write description</i>
PositionInfo	String	<i>TODO: Write description</i>

Used in calls

- *ListInbox*

4.28 MessageViewer

TODO: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
ReadDate	DateTime	<i>TODO: Write description</i>

Used in models

- *MessageDetail*

4.29 Order

TODO: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
CodeType	String	<i>TODO: Write description</i>
ExpectedDate	DateTime	<i>TODO: Write description</i>
ExpireDate	DateTime	<i>TODO: Write description</i>
ProcedureCode	String	<i>TODO: Write description</i>
Type	String	<i>TODO: Write description</i>

Used in models

- *Encounter*

4.30 PatientAccess

TODO: Write description

Property	Type	Description
AccountID	String	<i>TODO: Write description</i>
FeatureInformation	<i>FeatureInformation</i>	<i>TODO: Write description</i>
HomeURL	String	<i>TODO: Write description</i>
IsAdmitted	Boolean	<i>TODO: Write description</i>
Name	String	<i>TODO: Write description</i>
NeedsDataFromHomeDeployment	Boolean	<i>TODO: Write description</i>
Status	String	<i>TODO: Write description</i>
TillDate	DateTime	<i>TODO: Write description</i>

4.31 Pharmacy

TODO: Write description

Property	Type	Description
Address	String	<i>TODO: Write description</i>
Hours	String	<i>TODO: Write description</i>
ID	String	<i>TODO: Write description</i>
Name	String	<i>TODO: Write description</i>
Phone	String	<i>TODO: Write description</i>

Used in models

- *Medication*

4.32 Provider

TOOD: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
Address	String	<i>TODO: Write description</i>
DepartmentName	String	<i>TODO: Write description</i>
IsPCP	Boolean	<i>TODO: Write description</i>
OOCEndDate	DateTime	<i>TODO: Write description</i>
PCPType	String	<i>TODO: Write description</i>
Phone	String	<i>TODO: Write description</i>

Used in models

- *Appointment*
- *Encounter*

4.33 RecentPayment

TOOD: Write description

Property	Type	Description
Amount	String	<i>TODO: Write description</i>
Date	DateTime	<i>TODO: Write description</i>
Source	String	<i>TODO: Write description</i>
Description	String	<i>TODO: Write description</i>
Reference	String	<i>TODO: Write description</i>

Used in models

- *BillSummary*

4.34 Test

TOOD: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
DAT	String	<i>TODO: Write description</i>
IsAbnormal	Boolean	<i>TODO: Write description</i>
IsResultTimeNull	Boolean	<i>TODO: Write description</i>
OrderedBy	String	<i>TODO: Write description</i>
Read	Boolean	<i>TODO: Write description</i>
ResultDate	DateTime	<i>TODO: Write description</i>
Status	String	<i>TODO: Write description</i>

Used in models

- *TestListResult*

4.35 TestDetail

TOOD: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
DAT	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
IsAbnormal	Boolean	<i>TODO: Write description</i>
IsResultTimeNull	Boolean	<i>TODO: Write description</i>
OrderedBy	String	<i>TODO: Write description</i>
Read	Boolean	<i>TODO: Write description</i>
ResultDate	DateTime	<i>TODO: Write description</i>
Status	String	<i>TODO: Write description</i>
Comments	String	<i>TODO: Write description</i>
Components	Array of <i>Component</i>	<i>TODO: Write description</i>
HasScans	Boolean	<i>TODO: Write description</i>
Impression	String	<i>TODO: Write description</i>
IsECG	Boolean	<i>TODO: Write description</i>
Narrative	String	<i>TODO: Write description</i>
Recipients	Array of <i>WPMessageRecipient</i>	Details of the provider who received the test result
ResultNote	String	<i>TODO: Write description</i>
ShowFlag	Boolean	<i>TODO: Write description</i>
Transcriptions	String	<i>TODO: Write description</i>

Used in calls

- *GetTestDetail*

4.36 TestListResult

TOOD: Write description

Property	Type	Description
NextLabLink	String	<i>TODO: Write description</i>
ResultVisibility	Integer	<i>TODO: Write description</i>
TestList	Array of <i>Test</i>	<i>TODO: Write description</i>

Used in calls

- *ListTestResults*

4.37 To

TODO: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
IsPCP	Boolean	<i>TODO: Write description</i>
OOCEndDate	DateTime	<i>TODO: Write description</i>
PCPType	String	<i>TODO: Write description</i>
RecipTemplate	String	<i>TODO: Write description</i>

Used in models

- *Message*
- *MessageDetail*

4.38 Vitals

TODO: Write description

Property	Type	Description
BloodPressure	String	<i>TODO: Write description</i>
Height	String	<i>TODO: Write description</i>
Pulse	String	<i>TODO: Write description</i>
Resp	String	<i>TODO: Write description</i>
Temperature	String	<i>TODO: Write description</i>
TemperatureSource	String	<i>TODO: Write description</i>
Weight	String	<i>TODO: Write description</i>

Used in models

- *Encounter*

4.39 WPLog

TODO: Write description

Property	Type	Description
AccountID	String	<i>TODO: Write description</i>
TimeStamp	String	<i>TODO: Write description</i>
Type	String	<i>TODO: Write description</i>
Action	String	<i>TODO: Write description</i>
Comment	String	<i>TODO: Write description</i>

Used in models

- *AuditLog*

4.40 WPMessagerecipient

TODO: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>
IsPCP	Boolean	<i>TODO: Write description</i>
OOCEndDate	DateTime	<i>TODO: Write description</i>
PCPType	String	<i>TODO: Write description</i>
RecipTemplate	String	<i>TODO: Write description</i>

Used in models

- *TestDetail*
- *MedicalAdviceSettings*

4.41 WPObject

TODO: Write description

Property	Type	Description
Name	String	<i>TODO: Write description</i>
ObjectID	String	<i>TODO: Write description</i>

Used in models

- *MedicalAdviceSettings*

Contribute

5.1 MyChart Test logins

We're always looking for more MyChart logins to test with. The more sample data we have, the more complete the clients will become. If you find a hospital you are working with has more data or capabilities than is currently available in the client, [let us know](#). If you are willing to provide a set of MyChart logins to test with, we may be able to quickly add more functionality to the client.

5.2 Source

If you'd like to contribute code back to the project, please take a look at the [Gocodo YourChart Client codebase](#). Each client library is autogenerated using the code there. To get started, install Node.js version 0.10 or greater and run

```
npm install
node make
```

The client libraries will be outputted to `./build`. If you think others would benefit from your code, send a pull request on github.

6.1 YourChart Client

The Gocodo YourChart Client was originally built while working with a Hospital System running Epic MyChart. They wanted to build a PHR for themselves that was more feature rich and usable than the MyChart Mobile application. The first step was to figure out how we could access patient data in a secure way within our own application at low cost to the hospital itself. This client library started as a proof of concept with a related mobile application for that hospital system. Since then, Gocodo has decided to open source the client library in an effort to improve healthcare in the US by enabling application developers to create applications unlike we've seen before.

6.2 Gocodo

Gocodo is a collection of open source health IT projects created by *Michael Wasser Consulting, LLC*. It's objective is to enable the creation of shockingly simple and secure healthcare applications. It's founder, [Michael Wasser](#) previously created [BloomAPI](#) as well as co-founded [HealthSherpa](#).

Indices and tables

- *genindex*
- *modindex*
- *search*