

# Clutch Mobile API

- Introduction
- Authentication
- Models
- Errors

## Clutch Mobile API

The Clutch Mobile API and SDKs provide an easy way to integrate to Clutch APIs from a mobile application, without the need for an additional middleware API or application. An API client that connects to the Mobile API is allowed to execute directly from an end user's mobile device or possibly a webbrowser, contrary to the main Clutch JSON API, which is only intended to receive connections from API clients running on trusted devices.

The base URL for all API calls is: `https://mobile-api.clutch.com/`, the different API methods use GET and POST routes only.

cURL

```
# Test URL
```

```
https://mobile-api.clutch.com/health
```

## Authentication

Every API call requires several HTTP headers to be sent in, using HMAC-SHA512 based content signing. This approach ensures that even intercepted API calls can't be replayed or modified.

To configure your brand for Mobile API access, please contact Clutch customer support. You will receive an application key and application secret.

### HTTP Headers

<b>X-Application-Key</b>	Use your application key here
<b>X-Request-Id</b>	Generate a random string for each request, shorter than 100 characters. Preferably use a UUIDv4 here.
<b>X-Request-Time</b>	Use a timestamp in epoch milliseconds here, without any decimals. An example value is 1546300800000.
<b>X-Signature</b>	<p>Generate HMAC data here in the format: <b>["request id","request time","method","content digest"]</b></p> <p>Do not use any whitespaces between the commas or brackets. In case of POST requests, create a SHA-512 hash from the full body. For GET requests, the content digest is an empty string. The method used in the current request, e.g. /brand/lists</p> <p>An example HMAC data string can be:</p> <pre><b>["0933ec8f-fa72-458d-a5fb-2399e74601b7","1546300800000","/brand/lists",""]</b></pre> <p>Generate an HMAC-SHA512 signature with this HMAC data string and the application secret received from Clutch. For the SHA-512 and HMAC-SHA512 data, use a lower case hexadecimal format.</p>

- Introduction
- Authentication
- Models
- Errors

## Routes

Method (path)	Description	Request	Response
GET /brand/lists	List all subscription lists that exist		<a href="#">ListSubscriptionListsResponse</a>
GET /brand/fields	List all demographic fields that exist		<a href="#">ListFieldsResponse</a>
GET /captcha/new	Get a new captcha ID		<a href="#">CaptchaResponse</a>
GET /captcha/show/:captchaID	Show a captcha image	(no auth headers required)	Image data
POST /auth/token/register	Register a new Clutch card	<a href="#">RegisterRequest</a>	<a href="#">RegisterResponse</a>
POST /auth/token/existing	Get a mobile token for an existing Clutch card	<a href="#">GetTokenRequest</a>	<a href="#">GetTokenResponse</a>
GET /auth/token/release/:tokenID	Release a mobile token / log out		<a href="#">BasicResponse</a>
POST /profile/demographics	Update demographics	<a href="#">DemographicsUpdateRequest</a>	<a href="#">BasicResponse</a>
POST /profile/event	Register user event	<a href="#">RegisterEventRequest</a>	<a href="#">BasicResponse</a>
POST /profile/optInStatus	Update email opt-in status	<a href="#">SubscriptionListUpdateRequest</a>	<a href="#">BasicResponse</a>
POST /profile/pushToken	Update push notification token	<a href="#">PushTokenUpdateRequest</a>	<a href="#">BasicResponse</a>
GET /profile/token/:tokenID	Obtain a user profile		<a href="#">ProfileViewResponse</a>

### BasicResponse

**success:** **Boolean**  
True if the request was successful

### CaptchaResponse

**captchaId:** **String**  
The captcha ID that can be used to render the captcha (can be rendered only once).

### DemographicField

**apiName:** **String**  
Name for the demographic field that is used by the API as key.

**displayName:** **String**  
Human readable display name that is used for this field.

**required:** **Boolean**

- Introduction
- Authentication
- Models
- Errors

Boolean flag, indicates if this field is required for new registrations through the mobile API.

**editable:** **Boolean**

Boolean flag, indicates if this field is editable through the mobile API.

cURL

## DemographicsUpdateRequest

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**token:** **String**

User token.

**primaryFields:** **Map [String, String]**

Map where the keys are primary demographic fields (apiName of those fields) and the values are the values provided by the user.

This should not include any fields that are not editable or that aren't being updated.

**customFields:** **Map [String, String]**

Map where the keys are custom demographic fields (apiName of those fields) and the values are the values provided by the user.

This should not include any fields that are not editable or that aren't being updated.

## GetTokenRequest

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**captchaId:** **String**

The captcha ID that was shown to the user.

**captchaSecret:** **String**

The captcha code that was entered by the user.

**cardNumber:** **String**

The Clutch card number that the user entered.

**pin:** **String**

The PIN the user entered for the Clutch card.

## GetTokenResponse

---

**success:** **Boolean**

Success flag, true indicates the token was successfully obtained.

**token:** **String**

Only provided if success was true. This is the user token that can be used to place more API calls to the mobile API for this user.

## ListFieldsResponse

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**primaryFields:** **Array [DemographicField]**

All primary demographics fields that exist for the brand that are exposed to the mobile API.

- Introduction
- Authentication
- Models
- Errors

**customFields:** Array [[DemographicField](#)]

All custom demographics/various fields that exist for the brand that are exposed to the mobile API.

cURL

## ListSubscriptionListsResponse

**subscriptionLists:** Array [[SubscriptionList](#)]

All subscription lists that exist for the brand.

## ProfileViewResponse

**success:** Boolean

Boolean flag, true indicates the profile can be loaded.

**emailOptIn:** Boolean

Boolean flag indicating the global email opt in status. True indicates opt in, false indicates opt out.

**primaryDemographics:** Map [String, String]

Map where the keys are primary demographic fields (apiName of those fields) and the values are the values for the user.

**customDemographics:** Map [String, String]

Map where the keys are custom demographic fields (apiName of those fields) and the values are the values for the user.

**emailSubscriptionLists:** Map [String, Boolean]

Opt in status per subscription list. This is a map where the keys are subscription list IDs and the values are boolean flags. A value of true indicates the user is opted in to that subscription list - false indicates an opt out. Note that a user can be opted in to a subscription list, but will won't receive any email unless the global email opt in status is also set to true.

**balances:** Map [String, Number]

Map with balance information. The key is the balance type, which can be either **Points**, **Punches**, **Custom.XYZ** or **Currency.XYZ**. For Custom and Currency balances, the XYZ part will be the custom balance type code or currency code. An example is **Currency.USD**.

The value will be the current balance of this balance type that is not reserved/held, not expired and available for redemption today.

**segments:** List [[Segment](#)]

List of segments that the user is a member of. This will be limited to Clutch segments that have been configured to be API accessible.

## PushTokenUpdateRequest

- Introduction
- Authentication
- Models
- Errors

---

**token:** **String**  
User token.

**pushTokenType:** **String**  
Either 'apns' or 'gcm' (without quotes).  
Use the apns value for iOS push tokens and gcm for Android push tokens.

**pushToken:** **String**  
The push token (either the apns or gcm push token value).

## RegisterEventRequest

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**token:** **String**  
User token.

**categoryId:** **String**  
Event category ID for the custom event definition that exists with Clutch.  
This must be one of the allowed custom category IDs in the brand mobile API configuration.

## RegisterRequest

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**captchald:** **String**  
The captcha ID that was shown to the user.

**captchaSecret:** **String**  
The captcha code that was entered by the user.

**primaryFields:** **Map [String, String]**  
Map where the keys are primary demographic fields (apiName of those fields) and the values are the values provided by the user.  
This should at least include all required primary demographic fields.

**customFields:** **Map [String, String]**  
Map where the keys are custom demographic fields (apiName of those fields) and the values are the values provided by the user.  
This should at least include all required custom demographic fields.

## RegisterResponse

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**success:** **Boolean**  
True iff the registration was successful

**token:** **String**  
Only provided if success was true.  
This is the user token that can be used to place more API calls to the mobile API for this user.

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# Clutch Mobile API

- Introduction
- Authentication
- Models
- Errors

**cardNumber:** **String**  
Only provided if success was true.  
This is the Clutch card number that was registered.

**pin:** **String**  
Only provided if success was true.  
This is the PIN that belongs to the Clutch card that was registered.  
This PIN should be shown to the user, so they can log in in the future - there won't be another way to access this PIN later on.

cURL

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## Segment

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**id:** **String**  
Segment ID used internally.

**name:** **String**  
Segment name.

**description:** **String**  
Short description of the segment.

## SubscriptionList

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**id:** **String**  
Subscription list ID

**name:** **String**  
Subscription list name

## SubscriptionListUpdateRequest

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**token:** **String**  
User token.

**globalOptIn:** **Boolean**  
Optional. Only specify this if the global email opt in status should be updated.  
Set to true for a global opt in, or false for a global opt out.  
Note that a global opt in does not automatically opt a user in to all individual subscription lists.

**newOptIn:** **Boolean**  
Optional. Only specify this if the email opt in status for a single subscription list should be updated.  
Set this to true for a subscription list opt in or false for a subscription list opt out.  
Indicate in the subscriptionListId field which subscription list this concerns.  
Note that a subscription list opt in does not automatically set the global opt in status to true.

**subscriptionListId:** **String**  
Optional. Only specify this is newOptIn is specified.

- Introduction
- Authentication
- Models
- Errors

## Errors

### Attributes

**success:** **boolean**  
Whether the request succeeded

### cURL

HTTP Status codes:

200 OK - Request successfully executed. In case the response

400 Bad Request - The request structure is invalid

401 Unauthorized - Invalid API key

404 Not Found - Requested API method doesn't exist

429 Rate limit has been exceeded

500, 502, 503, 504 Server errors