# JokeBot

## API Developers Guide

**v1.1 December 2019**

This document details the RESTful – JSON
Jokebot API for developing interactive
jokes apps.

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# 1    Introduction

JokeBot is a cloud based API service that provides a simple way to request jokes for integration into other apps.

Interaction with the service is via a RESTful API. The API provides the ability to simply request a random joke of a specified category. All jokes are text based.

The cloud service currently includes approximately 900 jokes and possibility to add own set of jokes if desired. For any queries about the API please email thecodecentre@gmail.com.

# 2    API Access and Security

Access to the API requires registration and a valid API key. You can register and obtain an API key at:

https://jokebot1.appspot.com

The API service is accessed via the URL https://jokebot1.appspot.com/apiv1/ . All responses will use the JSON standard UTF-8 character set with the HTTP mime *content-type* set to:

```
Content-Type: application/json
```

To overcome the same origin policy when using AJAX, the responses will support CORS (http://en.wikipedia.org/wiki/Cross-origin_resource_sharing) and include the following in each HTML response header:

```
Access-Control-Allow-Origin: *
Access-Control-Allow-Headers: Content-Type, Authorization
Access-Control-Allow-Methods: PUT, GET, POST, DELETE, OPTIONS
```

## 2.1   Authentication

Access to jokebot require a valid access token. An access token can be obtained by authenticating the app id and API key in a POST request to the authentication endpoint (see section 4.1).

If the app id and API key are not valid then the API will respond with a HTTP 401 Unauthorised status code.

If the authentication details are valid the API will respond with an access token in a JSON message.

The access token will expire after 10 minutes, after which the user will need to obtain a new access token by re-authenticating.

# 3     Summary of API Interactions

There are 2 types of resources provided by the API.

## 3.1   Authentication (/authenticate)

Used to authenticate a user and obtain an access token.

## 3.2   New Joke (/joke)

To request a new joke. Requires a valid access token.

## 4    API Details

The service is accessed via the URL https://jokebot1.appspot.com/apiv1/ .  In case of an error the API will return a JSON error message e.g.:

```
{"error": "Joke id does not exist"}
```

## 4.1    Authentication

| | |
|---|---|
| Description | Get an access token the using API key |
| URL Structure | https://jokebot1.appspot.com/apiv1/authenticate |
| Method | POST |
| Parameters | POST data must contain a JSON message with app id and corresponding API key: e.g.<br><br>`"app_id":123456789012,`<br>`"api_key":"phgNU82hSyYDjhhdoKM"`<br><br>These should be sent as key value pairs in the standard POST request. |
| Response | Access token in JSON message. E.g.<br><br>`{"app_id":123456789012,"access_token":"phgNUhdk76UYDjhhdoKM"`<br>`,"expires":1577740527539,"token_type":"Standard"}`<br><br>Where:<br><br>**user_id** is the unique app id<br>**access_token** is the token that should be used in all subsequent API interactions<br>**expires** is the expiry time of this token in Unix time (milliseconds since 1 Jan 1970) – This will typically be 10 mins (600,000 ms) later.<br>**token_type** will always be "Standard" |
| Errors | Standard Jokebot API JSON error message |

## 4.2    Request a random joke

| | |
|---|---|
| Description | Request a random joke |
| URL Structure | https://jokebot1.appspot.com/apiv1/joke?access_token=<token> |
| Method | GET |
| Parameters | access_token=<token> |
| Response | A joke within a JSON message. E.g.<br><br>`{"Jid":51,"Category":"General","Joke":"What do you call a`<br>`teacher with no arms, no legs, and no body? The Head"}`<br><br>Where: |

| | |
|---|---|
| | **Jid** is the unique id of this joke<br>**Category** is the category of this joke<br>**Joke** is the joke text |
| Errors | Standard Jokebot API JSON error message |

## 4.3   Specific joke

| | |
|---|---|
| Description | Request a specific joke |
| URL Structure | https://jokebot1.appspot.com/apiv1/joke?joke_id=<joke id>&access_token =<token> |
| Method | GET |
| Parameters | access_token=<token><br>joke_id=<the joke id> |
| Response | A joke within a JSON message. E.g.<br><br>`{Jid":51,"Category":"General","Joke":"What do you call a teacher with no arms, no legs, and no body? The Head"}`<br><br>Where:<br><br>**Jid** is the unique id of this joke<br>**Category** is the category of this joke<br>**Joke** is the joke text |
| Errors | Standard Jokebot API JSON error message |

## 4.4   Random joke by category

| | |
|---|---|
| Description | Request a random joke by category |
| URL Structure | https://jokebot1.appspot.com/apiv1/joke?category=<category>&access_to ken =<token> |
| Method | GET |
| Parameters | access_token=<token><br>category= <category> category can be "General" or "Long" |
| Response | A joke within a JSON message. E.g.<br><br>`{"Jid":51,"Category":"General","Joke":"What do you call a teacher with no arms, no legs, and no body? The Head"}`<br><br>Where:<br><br>**Jid** is the unique id of this joke<br>**Category** is the category of this joke<br>**Joke** is the joke text |
| Errors | Standard Jokebot API JSON error message |

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