RESTful Web API Design with Node.js

Saleh Hamadeh

Video 2.4

Getting an Access Token

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In this Video, we are going to take a look at...

- Exchanging the OAuth verifier for an access token
- Using the access token to get the user's information
- Logging in the user

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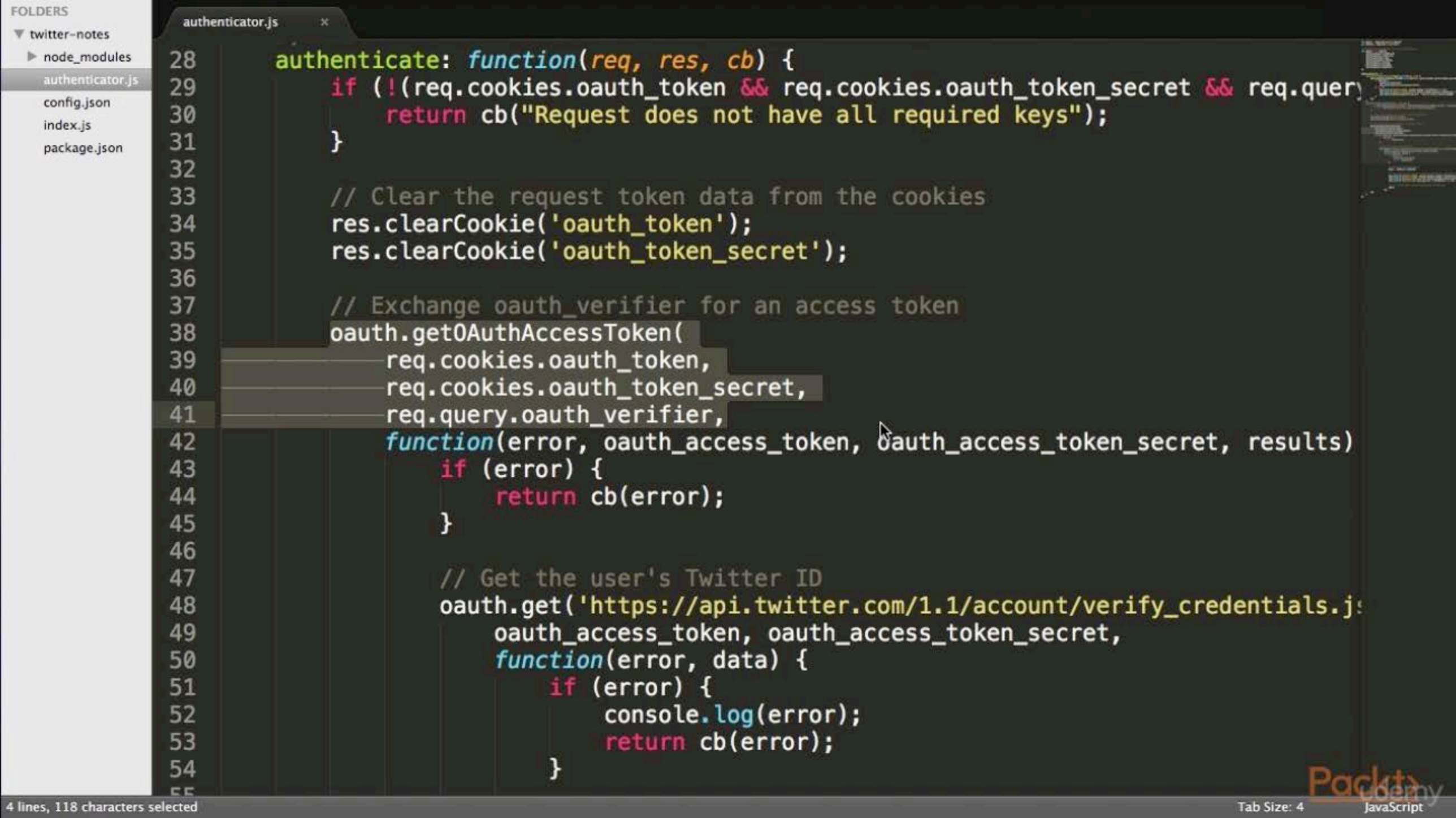
FOLDERS
twitter-notes
node_modules
authenticator.js
config.json
index.js
package.json
authenticator.js
28 authenticate: function(req, res, cb) {
29 if (!(req.cookies.oauth_token && req.cookies.oauth_token_secret && req.quer
30 return cb("Request does not have all required keys");
31 }
32
33 // Clear the request token data from the cookies
34 res.clearCookie('oauth_token');
35 res.clearCookie('oauth_token_secret');
36
37 // Exchange oauth_verifier for an access token
38 oauth.getOAuthAccessToken(
39 req.cookies.oauth_token,
40 req.cookies.oauth_token_secret,
41 req.query.oauth_verifier,
42 function(error, oauth_access_token, oauth_access_token_secret, results)
43 if (error) {
44 return cb(error);
45 }
46
47 // Get the user's Twitter ID
48 oauth.get('https://api.twitter.com/1.1/account/verify_credentials.j
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54 }
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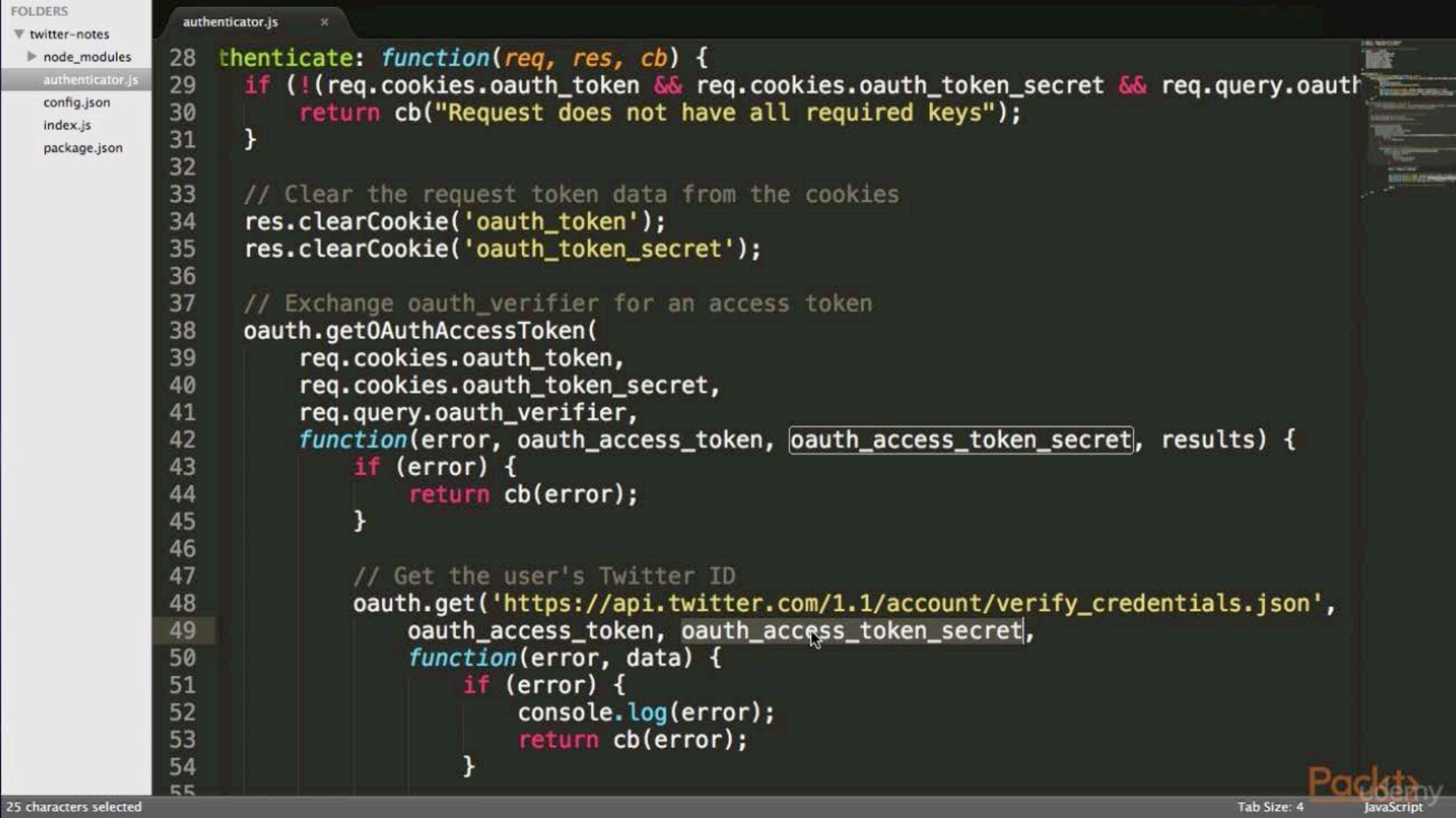
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51                      if (error) {
52                          console.log(error);
53                          return cb(error);
54                      }
55
56                      // Parse the JSON response
57                      data = JSON.parse(data);
58
59                      // Store the access token, access token secret, and user's Twitt
60                      res.cookie('access_token', oauth_access_token, { httpOnly: true
61                      res.cookie('access_token_secret', oauth_access_token_secret
```

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The **REST APIs** provide programmatic access to read and write **Twitter** data. Author a new Tweet, read author profile and follower data, and more. The **REST API** ...

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The Search API

The Twitter Search API is part of Twitter's REST API. It allows ...

GET statuses/user_timeline

Returns a collection of the most recent Tweets posted by the ...

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https://dev.twitter.com/overview/documentation Twitter

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API Overview | Twitter Developers

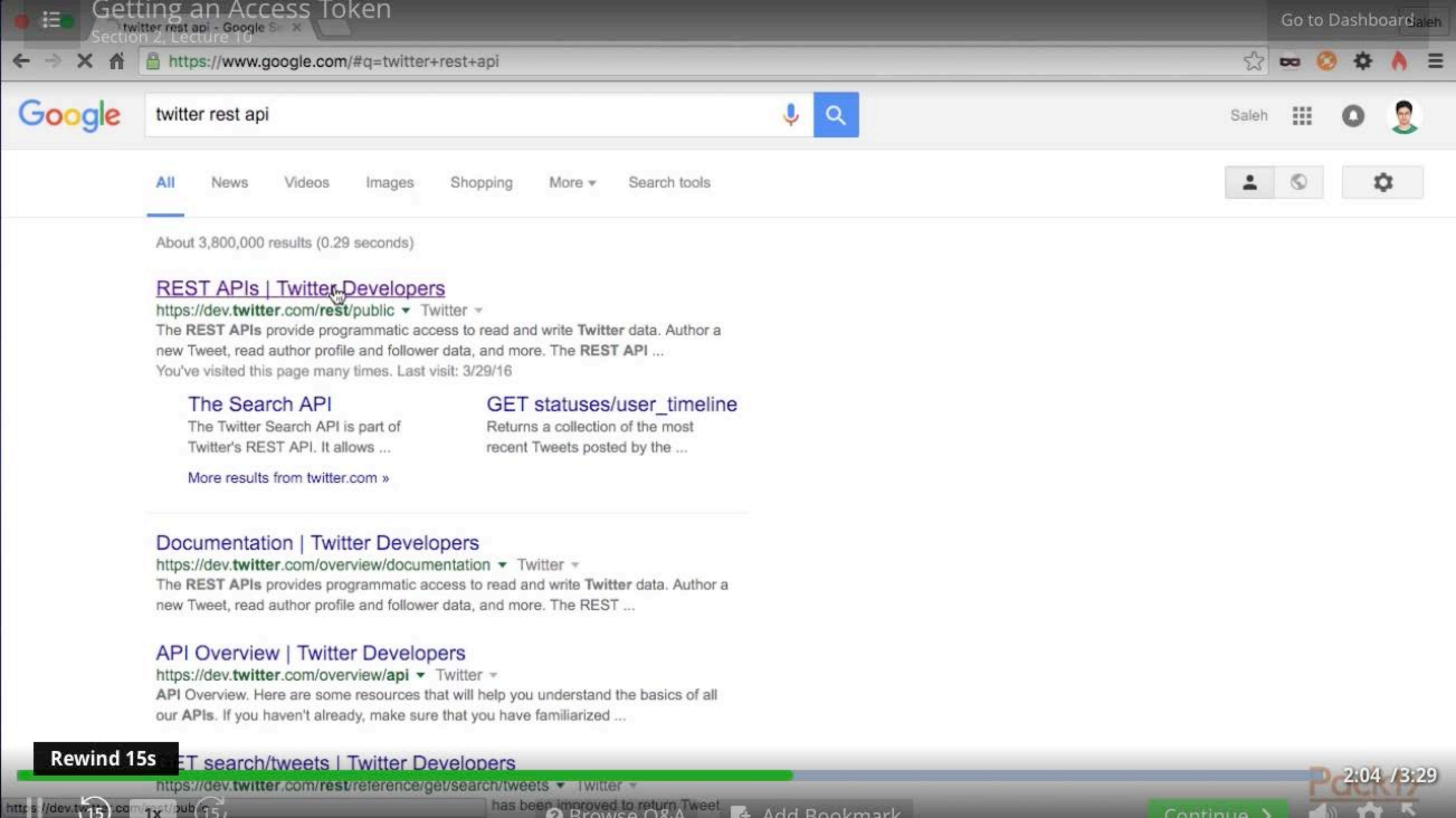
https://dev.twitter.com/overview/api Twitter

API Overview. Here are some resources that will help you understand the basics of all our **APIs**. If you haven't already, make sure that you have familiarized ...

ET search/tweets | Twitter Developers

https://dev.twitter.com/rest/reference/get/search/tweets Twitter

API v1.1, the response format of the Search API has been improved to return Tweet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Google
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Videos
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https://dev.twitter.com/rest/reference/get/search/tweets Twitter
has been improved to return Tweet

API Console Tool
Public API
Uploading Media
The Search API
The Search API: Tweets by Place
Working with Timelines
API Rate Limits
API Rate Limits: Chart
GET statuses/mentions_timeline
GET statuses/user_timeline
GET statuses/home_timeline
GET statuses/retweets_of_me
GET statuses/retweets/:id
GET statuses/show/:id
POST statuses/destroy/:id
POST statuses/update

REST APIs

The REST APIs provide programmatic access to read and write Twitter data. Author a new Tweet, read author profile and follower data, and more. The REST API identifies Twitter applications and users using OAuth; responses are available in JSON.

If your intention is to monitor or process Tweets in real-time, consider using the Streaming API instead.

Overview

Below are the documents that will help you get going with the REST APIs as quickly as possible

- API Rate Limiting
- API Rate Limits
- Working with Timelines
- Using the Twitter Search API
- Uploading Media
- Multiple Media Entities in Statuses

GET followers/ids
GET friendships/incoming
GET friendships/outgoing
POST friendships/create
POST friendships/destroy
POST friendships/update
GET friendships/show
GET friends/list
GET followers/list
GET friendships/lookup
GET account/settings
GET account/verify_credentials
POST account/settings
POST account/update_profile
POST account/update_profile_background_image
POST account/update_profile_image
GET blocks/list

Rate Limiting

We divide the rate limit window into 15 minute chunks per endpoint, with most individual calls allowing for 15 requests in each window. This is particularly advantageous for apps making calls such as GET statuses / show / :id, GET users / lookup, GET search / tweets and others. Be sure to read the API Rate Limiting documentation as well as review the per method limits available here.

Twitter client policies

All applications replicating the core Twitter experience, usually called "clients", must adhere to certain restrictions, including a 100,000 user token limit. **To be clear, the 100,000 user token limit applies *only* to the small number of clients replicating the core Twitter experience - it does not apply to the majority of other applications in the broader ecosystem.** These clauses are outlined in detail in the Developer Rules of the Road.

Feedback and next steps

If you find any issues with the API, please use our discussion forum dedicated to API v1.1 where we'll be available and actively listening to all of your feedback. We look forward to working with you and can't wait to see what everyone builds.

POST statuses/destroy/:id
POST statuses/update
POST statuses/retweet/:id
POST statuses/unretweet/:id
POST statuses/update_with_media
GET statuses/oembed
GET statuses/retweeters/ids
GET statuses/lookup
POST media/upload
POST media/upload chunked
GET direct_messages/sent
GET direct_messages/show
GET search/tweets
GET direct_messages
POST direct_messages/destroy
POST direct_messages/new
GET friendships/no_retweets/ids
GET friends/ids
GET followers/ids

authenticated users to access their email address.

Resource URL

`https://api.twitter.com/1.1/account/verify_credentials.json`

Resource Information

Response formats	JSON
Requires authentication?	Yes (user context only)
Rate limited?	Yes
Requests / 15-min window (user auth)	15

Parameters

include_entities
optional

The `entities` node will not be included when set to `false`.

Example Values: `false`

skip_status

When set to either `true`, `t` or `1` statuses will not be

update_profile_background_image
POST account/update_profile_image
GET blocks/list
GET blocks/ids
POST blocks/create
POST blocks/destroy
GET users/lookup
GET users/show
GET users/search
POST account/remove_profile_banner
POST account/update_profile_banner
GET users/profile_banner
POST mutes/users/create
POST mutes/users/destroy
GET mutes/users/ids
GET mutes/users/list
GET users/suggestions

Example Request

```
GET
https://api.twitter.com/1.1/account/verify_credentials.json
```

Example Result


```
{
    "contributors_enabled": true,
    "created_at": "Sat May 09 17:58:22 +0000 2009",
    "default_profile": false,
    "default_profile_image": false,
    "description": "I taught your phone that thing you like.
    "favourites_count": 588,
    "follow_request_sent": null,
    "followers_count": 10625,
    "following": null,
    "friends_count": 1181,
    "geo_enabled": true,
    "id": 38895958,
    "id_str": "38895958",
    "is_translator": false,
    "lang": "en",
    "listed_count": 190,
    "name": "Sean Cook",
```

update_profile_background_image
POST account/update_profile_image
GET blocks/list
GET blocks/ids
POST blocks/create
POST blocks/destroy
GET users/lookup
GET users/show
GET users/search
POST account/remove_profile_banner
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GET users/show
GET users/search
POST account/remove_profile_banner
POST account/update_profile_banner
GET users/profile_banner
POST mutes/users/create
POST mutes/users/destroy
GET mutes/users/ids
GET mutes/users/list
GET users/suggestions/:slug
GET users/suggestions
GET users/suggestions/:slug/members
GET favorites/list
POST favorites/destroy
POST favorites/create
GET lists/list
GET lists/statuses


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"profile_background_image_url": "http://a0.twimg.com/profi
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"profile_background_tile": true,
"profile_image_url": "http://a0.twimg.com/profile_images/1
"profile_image_url_https": "https://si0.twimg.com/profile_
"profile_link_color": "2FC2EF",
"profile_sidebar_border_color": "181A1E",
"profile_sidebar_fill_color": "252429",
"profile_use_background_image": true,
```

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GET users/suggestions/:slug
GET users/suggestions
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POST favorites/destroy
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Next Video

Exploring Twitter's REST API