The AR Form Project

What is the AR Form Project?

- Create an online form for students to fill out when they are planning on taking a test in AR
- Confirm the date and time of the test with teacher, student, and AR staff
- Organize this info

Our Options:

Microsoft and/or Java SQL:

- Advantages:
 - Local server
 - Local management
- Disadvantages:
 - Hard to scale
 - No ability to utilize online applications or http protocols

Outlook Calendar REST API:

- Advantages:
 - Stored in cloud
 - Can use java
 - Can use existing email addresses and Outlook calendar and email API
 - Automate processes easily
- Disadvantages:
 - Java has limited native support for networking

We chose to use the Outlook REST API with Java

REST API

Connecting Online Resources to Applications

REST: Representational State Transfer

Why I'm using it

AR form project:

- Outlook calendar api
- Populate calendar with information automatically
- Confirmation emails

Before REST: HTTP(S), HyperText Transfer Protocol (Secure)

What isolated it Phattetocol?

http://www.google.com



It indicates a web page.

parts of the address.

of the address.

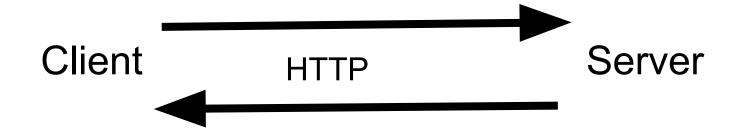
.gov - US Government

.us - United States

.uk - United Kingdom

GET = Consume data POST = Write data

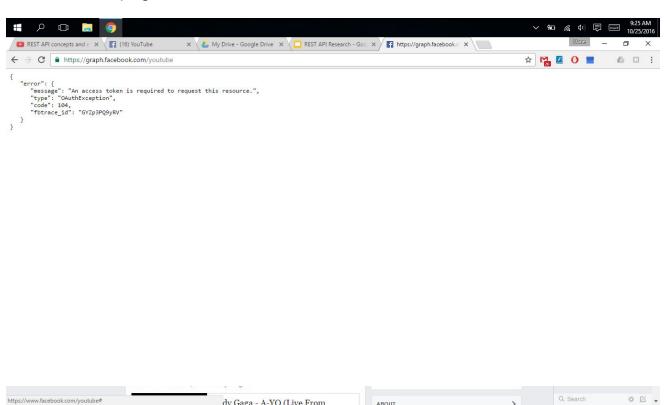
What does this have to do with REST?



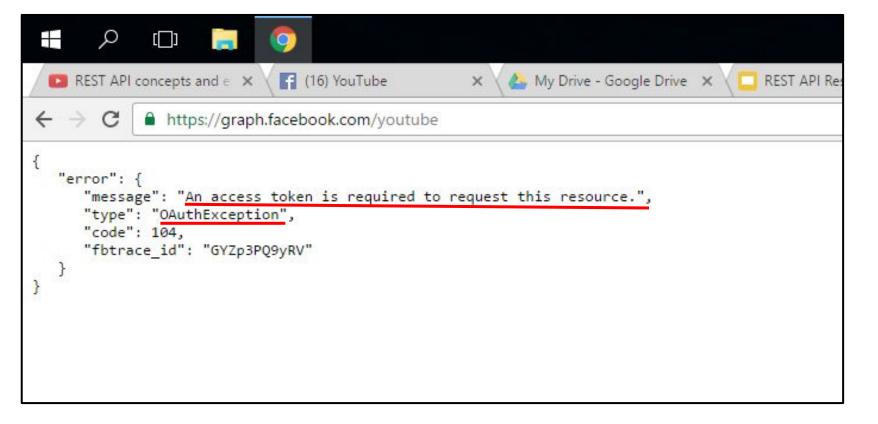
Example:

http://www.facebook.com/youtube brings you the facebook youtube page Or you could try a different url:

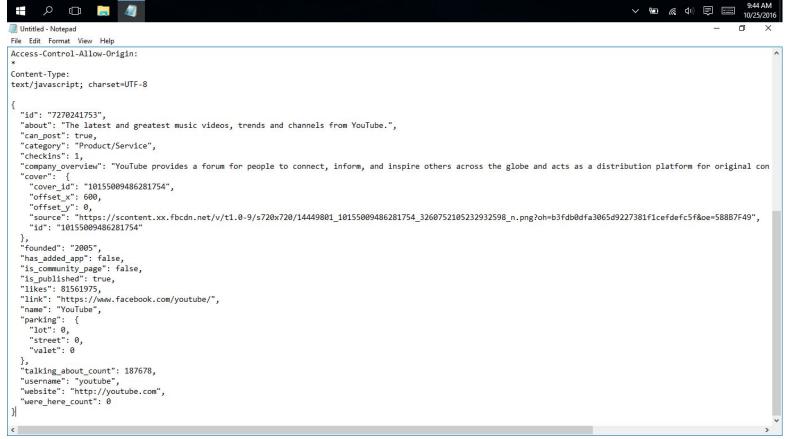
http://graph.facebook.com/youtube which gives you the facebook REST response for the youtube facebook page.



What Happened!?



Facebook is secured by OAuth2, this way you need to login before being able to use the API, otherwise people would be able to start posting things without permission



With authentication, we get information on the facebook.com/youtube webpage organized in json formatting

Try Spotify API Console...

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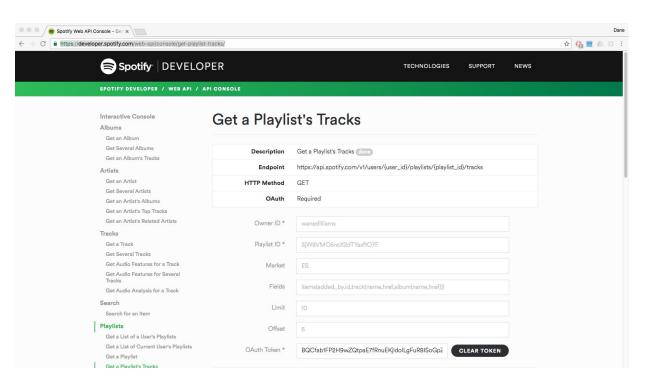
Let's do a GET

Spotify API console lets us try out the Spotify REST api without needing to write any code! Let's give Mr. Srock an upgrade to his playlist:)

Today's Top Hits:

Owner ID: spotify

Playlist ID: 5FJXhjdlLmRA2z5bvz4nzf



And now a POST...

Let's Make Mr. Srock a playlist!

I made an account for this class:

Username / owner ID: eastsidecatholicapcs

Password: Caroline!

Steps:

- Create a Playlist
 - Owner ID
 - Public = true
- Add Tracks to a Playlist
 - Spotify track uri
 - Right click track in play.spotify.com for code at end of url (not uri)
 - Uri = spotify:track:code
 - Owner ID
 - Playlist ID
 - I will show you this after creating the playlist

Let's see the playlist!

Thanks for participating:)