

Welcome to IBLN-FBI Apps...

*FBI Apps &
Mobile App Dev (MAD) Tampa presents...*



How to Use API's to Develop Apps

Fustino Brothers, Inc.

www.FustinoBrothers.com | @FustinoBrothers

FBI: 850.366.3232 | Fax: 1.856.267.1568

1

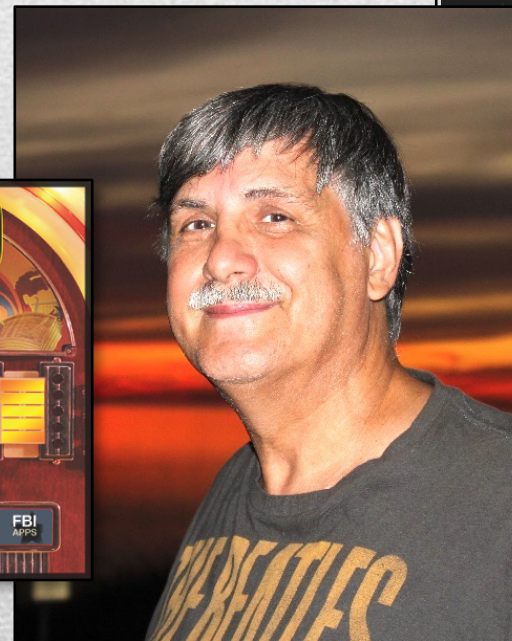
We Build Powerful Apps for the Stars!
Theme: Learn, Knowledge-Base, Reward
All Rights Reserved

Building Powerful Apps for Rock Stars!

Russ – Programmer (MVP 2013-18)

Gary – Web, Biz Social, Mkg

Rich – Musician, Newsletter & QC





**MAJOR
UPDATE
JANUARY
2018**

Jethro Tull App
TX 8-265-227
08-04-16

<p>This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, states that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.</p> <p><i>Karen Taylor Upp</i> Acting United States Register of Copyrights and Director</p>		<p>Registration Number: TX 8-265-227 Effective Date of Registration: August 04, 2016</p>
<p>Title</p> <p>Title of Work: Jethro Tull Previous or Alternate Title: Jethro Tull Living Museum Jethro Tull App Tull Tribute App App for the Stars App for Celebrities</p>	<p>Copyright Claimant</p> <p>Copyright Claimant: Fustino Brothers, Inc. Transfer statement: By written agreement</p> <p>Limitation of copyright claim</p> <p>Material excluded from this claim: photographs, video, song lyrics, album covers, fan Anderson's likeness, some artwork and processing images New material included in claim: text, computer program, photographs, some artwork and compilation of videos on the playlist</p> <p>Rights and Permissions</p> <p>Organization Name: Fustino Brothers, Inc. Name: Russell Anthony Fustino Email: russ@fustinobrothers.com Telephone: (850) 366-3332 Alt. Telephone: (727) 307-9254 Address: PO Box 548, New Port Richey, FL 34650 United States</p>	<p>Completion/Publication</p> <p>Year of Completion: 2014 Date of Publication: September 12, 2014 Nation of Publication: United States</p> <p>Author</p> <p>Author: Russell Anthony Fustino Author Created: text, computer program, photographs, some artwork and compilation of videos on the playlist Work made for hire: No Citizen of: United States Year Born: 1955</p> <p>Author: Gary Casper Fustino Author Created: text, computer program, photographs, some artwork and compilation of videos on the playlist Work made for hire: No Citizen of: United States Year Born: 1951</p> <p>Author: Richard Marino Fustino Author Created: text, computer program, photographs, some artwork and compilation of videos on the playlist Work made for hire: No</p>

Welcome to Jethro Tull

Jethro Tull



Official Videos



Fan Videos



Discography



Tour Dates



Links



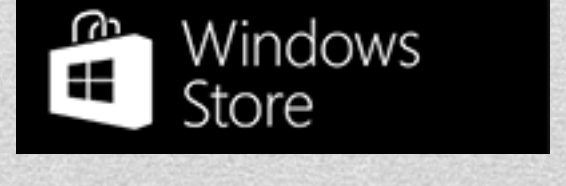
About



**<FUST!NO
BROTHERS INC.™**
All Rights Reserved.

ENDORSED

*In All Popular
App Stores*



Building Powerful Apps for the Stars!

Fustino Brothers, Inc.

Jethro Tull and Ian Anderson music, likeness, promotional materials, owned and copyrighted by Ian Anderson Group of Companies, LTD

We Build Powerful Apps for the Stars!
Theme: Learn, Knowledge-Base, Reward
All Rights Reserved

Now All About YOU!

(Your 15 Seconds of Fame)



- Introduce Yourself / Your Business
- What's New or What's Exciting?
- Hot Projects – Published Masterpieces
- Staff/Location Highlights

FBI Apps & Mobile App Dev (MAD) Tampa presents...



How to Use API's to Develop Apps

Why use API's and what are common questions?

- Data is typically maintained centrally in the cloud
- Apps become dynamic
- Maybe you have a website, but you want to have programmatic control on data.
- What are the tools that are code agnostic?
- How do I do this in C#?

Agenda

- API Basics
- Tools:
 - Postman
 - Paw
 - Terminal
- Using collections
 - APIMatic
- Implement in C#

A Programming Interface

API Basics

- HTTP Requests
 - URL
 - Method
 - Headers
 - Body
- Responses
 - Body
 - Header
 - Status Code

URL and Methods

The screenshot displays a REST client interface with the following components:

- History:** A list of recent requests, including several GET requests to `https://api.seatgeek.com/2/events?client_id=NDk4MjE2NXwxNTM1NDE1NTUwLjk3&performers.sl`.
- Method Selection:** A dropdown menu is open, showing various HTTP methods: GET, POST, PUT, PATCH, DELETE, COPY, HEAD, OPTIONS, LINK, UNLINK, PURGE, LOCK, UNLOCK, PROPFIND, and VIEW. The 'GET' method is selected.
- URL:** The URL input field contains `https://api.seatgeek.com/2/events?client_id=NDk4MjE2NXwxNTM1NDE1NTUwLjk3&performers.slug=jethro-tull`.
- Response:** The response body is displayed in JSON format, showing a search result for 'concerts' with a score of 0.42. The JSON includes fields like `image_license`, `taxonomies`, and `id`.

Headers

Wowza API requests Ready

Sessions Environments

Default Session Manage »

POST https://sandbox.cloud.wowza.com/api/v1.2/live_streams

Description	Headers	URL Params	Body	Auth	Options								
	<table border="1"> <thead> <tr> <th>Header Name</th> <th>Header Value</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> wsc-api-key</td> <td>c1xWhC1pSDsQNWryx5W0TJEPpGG0xidOj6b7crer5S5AtMVph...</td> </tr> <tr> <td><input checked="" type="checkbox"/> wsc-access-key</td> <td>PhLw89W6xywffjjj3B30iXlo5zX4kZLN3Cw588ttstystX9EbUWN...</td> </tr> <tr> <td>Add Header Name</td> <td>Add Header Value</td> </tr> </tbody> </table>	Header Name	Header Value	<input checked="" type="checkbox"/> wsc-api-key	c1xWhC1pSDsQNWryx5W0TJEPpGG0xidOj6b7crer5S5AtMVph...	<input checked="" type="checkbox"/> wsc-access-key	PhLw89W6xywffjjj3B30iXlo5zX4kZLN3Cw588ttstystX9EbUWN...	Add Header Name	Add Header Value				
Header Name	Header Value												
<input checked="" type="checkbox"/> wsc-api-key	c1xWhC1pSDsQNWryx5W0TJEPpGG0xidOj6b7crer5S5AtMVph...												
<input checked="" type="checkbox"/> wsc-access-key	PhLw89W6xywffjjj3B30iXlo5zX4kZLN3Cw588ttstystX9EbUWN...												
Add Header Name	Add Header Value												

Body

Wowza API requests

POST https://sandbox.cloud.wowza.com/api/v1.2/live_streams

Body: Text

```

1 {
2   "live_stream": {
3     "name": "Live Stream Demo",
4     "transcoder_type": "transcoded",
5     "billing_mode": "pay_as_you_go",
6     "broadcast_location": "us_west_california",
7     "recording": false,
8     "encoder": "wowza_gocoder",
9     "delivery_method": "push",
10    "target_delivery_protocol": "hls",
11    "use_stream_source": true,
12    "aspect_ratio_width": 1920,
13    "aspect_ratio_height": 1080,
14    "player_type": "original_html5",
15    "player_responsive": false,
16    "player_width": 640,
17    "hosted_page": false
18  }
19 }
    
```

POST https://sandbox.cloud.wowza.com/api/v1.2/live_streams

Body: JSON

Key or Index	Type	Value
Root	1 item	
live_stream	15 items	
name	A	Live Stream Demo
transcoder_type	A	transcoded
billing_mode	A	pay_as_you_go
broadcast_location	A	us_west_california
recording	<input checked="" type="checkbox"/>	false
encoder	A	wowza_gocoder
delivery_method	A	push
target_delivery_protocol	A	hls
use_stream_source	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> true
aspect_ratio_width	42	1920
aspect_ratio_height	42	1080
player_type	A	original_html5
player_responsive	<input checked="" type="checkbox"/>	false
player_width	42	640
hosted_page	<input checked="" type="checkbox"/>	false

Response

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `https://api.seatgeek.com/2/events?client_id=NDk4MjE2NXwxNTM1NDE1NTUwLjk3&performers.slug=jethro-tull`
- Headers (1):**

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> ZUMO-API-VERSION	2.0.0	
Key	Value	Description
- Status:** 200 OK (highlighted in red)
- Time:** 257 ms
- Size:** 4.13 KB
- Body:**

```

1 {
2   "meta": {
3     "took": 3,
4     "total": 2,
5     "page": 1,
6     "geolocation": null,
7     "per_page": 10
8   },
9   "in_hand": {},
10  "events": [
11    {
12      "datetime_local": "2018-10-21T19:30:00",
13      "datetime_utc": "2018-10-21T23:30:00",
14      "date_tbd": false,
15      "url": "https://seatgeek.com/jethro-tull-with-martin-barre-tickets/hartford-connecticut-infinity-hall-hartford-2018-10-21-7-30-pm/concert/4326854",
16      "type": "concert",
17      "announce_date": "2018-04-05T00:00:00",
18      "title": "Jethro Tull with Martin Barre",
19      "score": 0,
20      "short_title": "Jethro Tull with Martin Barre",
21      "links": [],
22      "popularity": 0,
23      "venue": {
24        "extended_address": "Hartford, CT 06103",
25        "display_location": "Hartford, CT"

```


Tools

- On the MAC
 - Paw
 - Terminal
- Cross Platform
 - Postman –Mac, Windows Linux
 - Download <https://www.getpostman.com/apps>

Demo


- Postman – Request / Response

Using Collections

- Group individual requests together
- Organize into folders
- Avoids having to search through your history

APIMatic

- Converts formats of API files
- <https://apimatic.io/transformer>

 Your first 1000 transformations every month are on the house.

Supported Formats

Inputs	Outputs
API Blueprint	API Blueprint
OpenAPI/Swagger 1.0 - 1.2	OpenAPI/Swagger 1.2
OpenAPI/Swagger 2.0 JSON	OpenAPI/Swagger 2.0 JSON
OpenAPI/Swagger 2.0 YAML	OpenAPI/Swagger 2.0 YAML
WADL - W3C 2009	WADL - W3C 2009
WSDL 1.1 - W3C	WSDL 1.1 - W3C
Google Discovery	RAML 0.8 - 1.0
RAML 0.8 - 1.0	APIMATIC Format
I/O Docs - Mashery	Postman Collection 1.0 - 2.0
HAR 1.2	OpenAPI Spec 3.0 (JSON)
Postman Collection 1.0 - 2.0, 2.1	OpenAPI Spec 3.0 (YAML)
APIMATIC Format	
Mashape	
OpenAPI Spec 3.0 (JSON)	
OpenAPI Spec 3.0 (YAML)	

Demo

https://documenter.getpostman.com/view/2177855/7TT794Q

Mail - Russ@Fustino | Surface Dial Tools for | Credentials - Jethro T | Apress Dashboard | Wowza One-Stop | Organization - Team

SINGULAR.LIVE Public Run in Postman No environment

SINGULAR REST API V1.0 TOOLKIT (FEB.2018)

Introduction

API Reference

- Control Nodes
- Data Nodes

Singular REST API v1.0 Toolkit (Feb.2018)

Last updated: 2018-04-06 (tm)

The Singular REST API Toolkit allows you to programmatically manage [Data Nodes](#), [Control Nodes](#) and trigger [Animations](#) with ease.

The easiest way to get started with the API is to click the **Run in Postman button** present at the top of each REST documentation page and use the Postman App to send requests.

Looking for a detailed documentation of the Singular REST API:

- Link to [Singular REST API v1.0](#)

Language: cURL

- Import Collections
 - Singular Live - Run in Postman
- Manual import
 - APIMatic conversions

C# Code - HttpClient

```
using (var httpClient = new HttpClient())
{
    var uriRequest = new Uri("https://api.seatgeek.com/2/events?client_id=NI...&perform...");
    var httpResponse = await httpClient.GetAsync(uriRequest);
    httpResponse.EnsureSuccessStatusCode();
    httpResponseBody = await httpResponse.Content.ReadAsStringAsync();
    byte[] byteArraysg = Encoding.UTF8.GetBytes(httpResponseBody);
    task = await Task.Factory.StartNew(() => JsonConvert.DeserializeObject<SeatGeekObject>(httpResponseBody));
    if (mySeatGeek.Events == null)
    {
        mySeatGeek.Events = task.Events.ToList();
    }
    else
    {
        mySeatGeek.Events.AddRange(task.Events);
    }
}
```


Demo



Summary

- API Basics
- Tools:
 - Postman
 - Paw
 - Terminal
- Using collections
 - APIMatic
- Implement in C#

Our Resources




Endorsed App

FBI Apps Software Daily: goo.gl/BJjR4G
Azure and Xamarin Forms (Buy Book): goo.gl/4HNsra
[Facebook.com/PCHandymanRussFustino/](https://www.facebook.com/PCHandymanRussFustino/)

Jethro Tull News by FBI Apps: goo.gl/gH3MGc
WeekOfRock.com ★ [Facebook.com/WeekOfRock/](https://www.facebook.com/WeekOfRock/)

T!PSnBYTES News: goo.gl/ta9E8w
TipsNBytes.com ★ InBusinessSEO.net/tps-blog

T!PS for Biz & Apps Development Series
Eventbrite: goo.gl/auXWum

App Memorabilia:
[Facebook.com/FustinoBrothersShop/](https://www.facebook.com/FustinoBrothersShop/)
[Facebook.com/FustinoBrothers](https://www.facebook.com/FustinoBrothers)
Twitter: [@FustinoBrothers](https://twitter.com/FustinoBrothers) ★ info@fustinobrothers.com




Jethro Tull Name/Likeness/Music- Ian Anderson Group of Companies, LTD. All Rights Reserved.



Our Next Webinar – January 14, 2019 – Enjoy!

Fustino Brothers, Inc.

www.FustinoBrothers.com | [@FustinoBrothers](https://twitter.com/FustinoBrothers)

FBI: 850.366.3232 | Fax: 1.856.267.1568

Now All About YOU!

(Your 15 Seconds of Fame)



- Introduce Yourself / Your Business
- What's New or What's Exciting?
- Hot Projects – Published Masterpieces
- Staff/Location Highlights

By Computer

Zoom Meeting Instructions:

- Zoom Meeting ID: **903-464-6456**
- Join from PC, Mac, Linux, iOS or Android:
- <https://zoom.us/j/9034646456>
- *Test your speaker/mike. If headset doesn't work, or if connection is lost - try "Rejoin"*

By Phone/Smartphone

Dial-

- USA: +1 **646 558 8665** - Enter: 9034646456#
- Or: +1 **408 638 0986** - Enter: 9034646456#

- By Landline Telephone, Dial-
- USA: +1 **646 558 8665**
- Or: +1 **408 638 0986**
- International numbers available:
<https://zoom.us/j/9034646456>

(be sure to enter the "#" hashtag symbol)