



Why do I need to know about 'API'?

- GiftOnline has an **API** and clients have been asking about it
- From a provider point of view, would be good to demonstrate:
 - In-depth knowledge of the product we are selling
 - Further solidify **client's trust** in Buzzacott
- Knowledge will be useful even when GiftsOnline is deprecated **SKY API**, general knowledge



What is an API?

• An interface to access data via the internet

Advantages

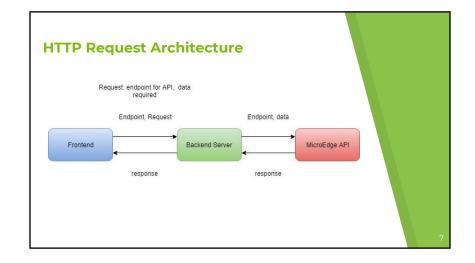
Disadvantages

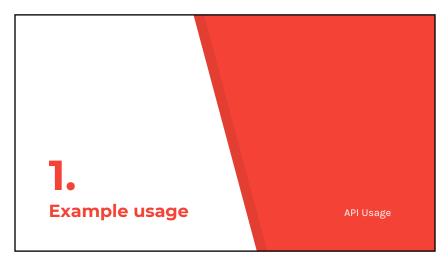
- Automate processing of data
- Cost
- Security risk

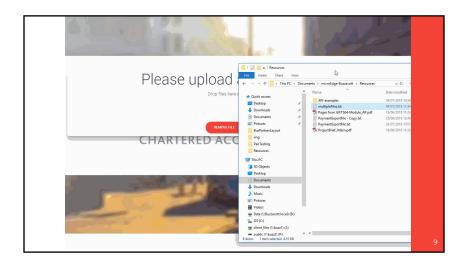
Flexible

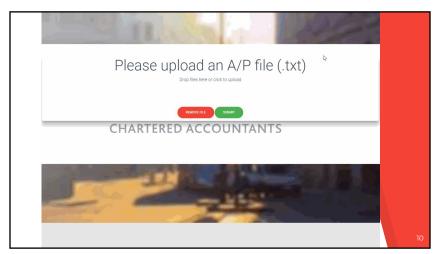
Usage of an API

- Obtain specific fields for certain clients (e.g. funds and program area) from exported A/P files
- Export request data in a .csv file
- Perfect if clients want to export GiftsOnline data into another System/Format
 - o With the API you can automate it









Steps I took

- Get through firewall (Week 1)
- Make initial contact with API (Week 2)
- Experiment receiving values (Week 3)
- Process results (Week 4-5)
- Presentation prep (Week 4-6)

Github Tutorial

- o Possibly hand out to clients who wish to get started
- o Requires basic programming knowledge
- John's Github



Organization

What it can do

What it cannot do

What it cannot do

Modify requests

- Get organization(s) Modify organization
- Update TaxID and VendorNo fields

All fields: https://ukdocs.api.microedge.com/#organization

Contact

What it can do

Get contact(s)

What it cannot do

Modify contacts

All fields: https://ukdocs.api.microedge.com/#contact

Requests

What it can do

- Get request(s)
 - o ID
 - Search criteria (e.g. date)
- Update custom fields

Search criteria: https://ukdocs.api.microedge.com/#getrequests

All fields: https://ukdocs.api.microedge.com/#request

Payments

What it can do

- Get payment(s)
 - \circ ID
 - Search criteria (e.g. date)
- Get scheduled payments
 - for approved Requests in a specified Schedule Date range.

Payments

What it can do

- Pay payment a scheduled payment
 - o changing its status to paid
 - setting the payment date, check number, and notes of the payment.
- Cancel payment
 - Cancel a scheduled Payment, changing its status to **cancelled**.

18

Payments

What it can do

- Void a paid Payment
 - creating a new Payment with a status of void and a negative amount.

Payments

What it can do

- Refund a paid payment
 - creating a new Payment with a status of refund with
 - specified amount
 - fiscal year
 - schedule date
 - payment date

19

Payments

NOTE: In order to create a refund payment, it must

- Belong to an approved request with a grant amount exceeding the total payment amount by the amount of the refund payment.
- Also, the new refund payment must not belong to a budget in which its request type or the default payment type require budget appropriation.

Payments

What it cannot do

- Get bank details (account no, sort code)
- Create a payment

What it cannot do

Requirement

What it can do

- Get requirement(s) Modify requirement
 - o ID
 - Search Criteria

To Do

What it can do

- Get Todo(s)
 - o ID

What it cannot do

- Modify Todo
- Search Criteria

All fields: https://ukdocs.api.microedge.com/#to-do

All fields: https://ukdocs.api.microedge.com/#requirement



Common errors

The client and server cannot communicate, because they do not possess a common algorithm

- BlackBaud GrantMaking API uses TLS 1.1, TLS 1.2. Connecting using TLS 1.0 causes this error.
- TLS 1.0 was deprecated as of March 2018

26

Common errors

403: Out of call volume quota. Quota will be replenished in hh:mm:ss

- 403 Forbidden error is an HTTP status code which means that accessing the resource is absolutely forbidden
- The account, (from the API key) has made the maximum number of requests - per second (20) or per 24 hours (10,000)

Pay Payment errors

- Cannot be **red-locked** by another user (locked from gifts Online)
- The Payment must have:
 - o a status of Scheduled
 - the associated Request must have the disposition of Approved to be marked as paid

Pay Payment errors

- Requires Budget year for Payments fiscal year
- Requires a **Budget Appropriation**

9

Void Payment errors

- Payment ID cannot be zero
- Requires status to be void
- Cannot be voided more than once
- Cannot be red-locked by another user(locked from gifts Online)

30

Cancel Payment errors

- Status must be scheduled or hold
- Cannot be **red-locked** by another user

Refund Payment errors

- The new Refund payment cannot refund more than the chosen Payment.
- The chosen payment must have a positive balance (there must be something to Refund).

Organization errors

- Vendor Number cannot be more than 20 characters
- Tax ID cannot be more than 20 characters

