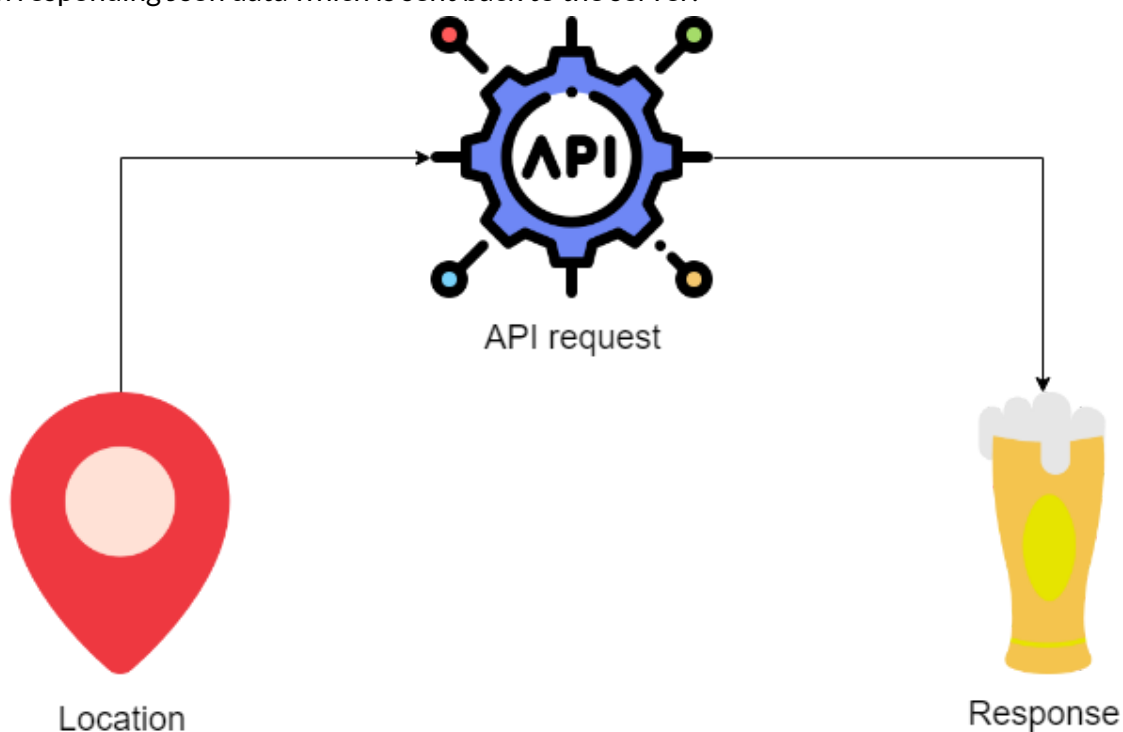# Beer Pressure

Beer pressure is a web-app that is powered by the Untappd api[1]. The Untappd api contains data from the user content driven web-app in which the users can 'check-in' the beer they are currently drinking from which brewery at what venue.

Beer pressure is a proxy website for Untappd where users do not need a login but can browse through the Untappd data freely, search for beers, breweries and venues. They can view the popular beers that are being drunk in their local area based on the other users of the content.

IoT Data

The web-app uses geolocation to verify users' location to find the local beer content. The web-app is also linked the Untappd app where users can use their phone's camera to make a barcode scan and a picture of the beer. The data from the app can then be viewed on the Beer Pressure web-app.

The Server makes a request using a URL specific to the API. The API then responds with the corresponding Json data which is sent back to the server.

API request

Location

Response

Server-side

Python

The server-side code is written in Python[2]. Using this and Python Flask[3] I was able to set up a local server which could make the required API calls from Untappd. I have used Flask as it has various built-in functionalities and libraries available to create and effective web-app.
The libraries used were:
- flask (Flask, request, jsonify, render_template, redirect, url_for)
- wtforms (Form, StringField)
- time
- urllib
- json
- sys
- os
- requests
- pythonUntappd

These can all be installed on the server using 'pip' the python package installer[4]. This installs the required libraries on the server from the Python Package Index.

Client-side

HTML CSS JavaScript

The web-app client-side layout and design is delivered using HTML, CSS and JavaScript. In previous projects I have used BootStrap[5] to style my webpages. However, this time I chose to really learn how to implement a layout using CSS without and frameworks. This turned out to be a time sink but I was happy with the skills I learnt and they overall layout of the web-app. However, in the future I will probably return to BootStrap.

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[2] Python documentation: https://docs.python.org/3/
[3] Flask documentation: http://flask.pocoo.org/
[4] Pip documentation: https://pypi.org/project/pip/
[5] Bootstrap Documentation: https://getbootstrap.com/

Beer Pressure is powered by the Untappd api. Here you can view the popualr beers in your area, breweries and venues around the world where people are drinking the same beers as you.

Popular beers in your area

Guinness Draught

Guinness

Stout - Irish Dry

Heineken

Heineken

Lager - Euro

IPA

Lagunitas Brewing Company

IPA - American

Corona Extra

Grupo Modelo

Lager - North American Adjunct

Guinness Draught

Guinness

Stout - Irish Dry

TOTAL
2128054

MONTHLY
10955

| 4.2% ABV | 3.79/5 | 608582 Ratings | 21/8/2010 |

Swirling clouds tumble as the storm begins to calm. Settle. Breathe in the moment, then break through the smooth, light head to the bittersweet reward. Unmistakeably GUINNESS, from the first velvet sip to the last, lingering drop. And every deep-dark satisfying mouthful in between. Pure beauty. Pure GUINNESS. Guinness Draught is sold in kegs, widget cans, and bottles. The ABV varies from 4.1 to 4.3%. Guinness Extra Cold is the exact same beer only served through a super cooler at 3.5 °C

Recent Activity

Marie L. is drinking Guinness Draught by Guinness at The Bishops Arms
Rating: 3.5/5

Wed, 12 Jun 2019

Maarten K. is drinking Guinness Draught by Guinness at The Coast Bar and Dining Room
Rating: 5/5

Wed, 12 Jun 2019

Albin W. is drinking Guinness Draught by Guinness
Rating: 4.25/5

Wed, 12 Jun 2019

justin j. is drinking Guinness Draught by Guinness at AJ Rocco's
Rating: 4.25/5

Wed, 12 Jun 2019

Flavio C. is drinking Guinness Draught by Guinness at The Royal Mile Tavern
Rating: 3.5/5

Jinja2

Jinja is a template manager for Python Flask[6] which links the server-side and client-side together so the data being gathered in the back end can be displayed in the front end. The data being received from the API calls was in Json format and in jinja a for loop can be created to increment over the data to gather the information that is required. For example, in the third image above, the 'check-ins' data is passed over iteratively until all the specific information requested by the jinja code is received.

APIs

The Untappd API I have used is the source of all the data on the website. It is a user content driven site about beers, breweries and venues. I can access the data using specific URL calls with my specific ID and KEY.

I have also used the GoogleMaps API with a simple URL request to show the location of the venues on the web-app.

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[6] Jinja Documentation: http://jinja.pocoo.org/