BARB API SPECIFICATION

This repository contains a specification using [OpenAPI 3.03](#) of an API for accessing BARB panel data.

It includes the following:

1. [A YAML file](#) that gives the full specification of the web api.
2. [An HTML rendering of the specification documentation](#) generated using [swagger](#)
3. [Additional notes](#) on the implementation of the API

Note that the first release contains only the phase I endpoints `advertising_spots`, `programme_ratings` and `impacts_over_time`

Additional notes on implementation

The developer's main objective is the delivery of a RESTful web API that matches the OpenAPI specification given [here](#). Note that this will involve creating a data pipeline that will be transform the data so that it is in a suitable format to be delivered in by the API.

In addition to the information in the OpenAPI specification, BARB have the following requirements.

Service

- Speed: The API should be to deliver the data in a reasonable amount of time. For example, each of the endpoints `advertising_spots`, `programme_ratings` and `impacts_over_time` should be able to deliver a day's worth of data within 2-3 seconds.
- Security and access: The webAPI should be secure (OAuth 2 access) and it should be possible to grant different levels of access to users.
- Notifications: It should be possible to send push notifications to users to alert them to the fact that the data available at an endpoint has been updated .

Documentation

The OpenAPI specification contains various links to additional reference material (for example BARB station codes.) Web pages containing this information should be part of the API implementation

Enhancements to the data (not for phase I)

The following data enhancements need to be reviewed by BARB and may form part of later phases.

- Sky asked whether there would be the need to calculate derived audiences from the API in the same way that is currently the case for database 2 (e.g. Women = Adults-Men,
C2DE Adults = Adults-ABC1 Adults).