STACS HACK 10 Arrays the Roof

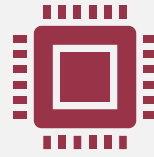**Marcus Elizondo-Darwin**

Joshua James-Lee

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Our Approach

Incorporate:

- 8-bit – STACS
- JSON data – NCR Atleos
- Promoting Accessibility – BlackRock

Our solution

We created a Restful Web API to interact with and query the accessibility of Santander ATMs and Branches across the country.

The goal of the program is to illustrate the coverage of inclusive financial hubs, whether that be ATMs or branches.

We at SantanWare care, because money should be for the many, not the few.

SantanWare API

The Backend

RESTful server backend handles API requests from client programs.

GET /data/_____

- Request information on **branches** or **atms**. Supplies the NCR datasets to client applications as a JSON response.

- Limit scope of request by specifying Branch or ATM ID.

- Query ATMs and Branches by Town, Postcode, Accessibility Features and a combination of the above.

API usage – AKA "Le Docs"

The easy-to-read documentation provided, demonstrates usage of the API in an interactive fashion, encouraging other programmers to use the infrastructure we've created. The documentation includes:
- -Interactive demos to query ATMs and branches
- -Explanations of the data you will receive from the API
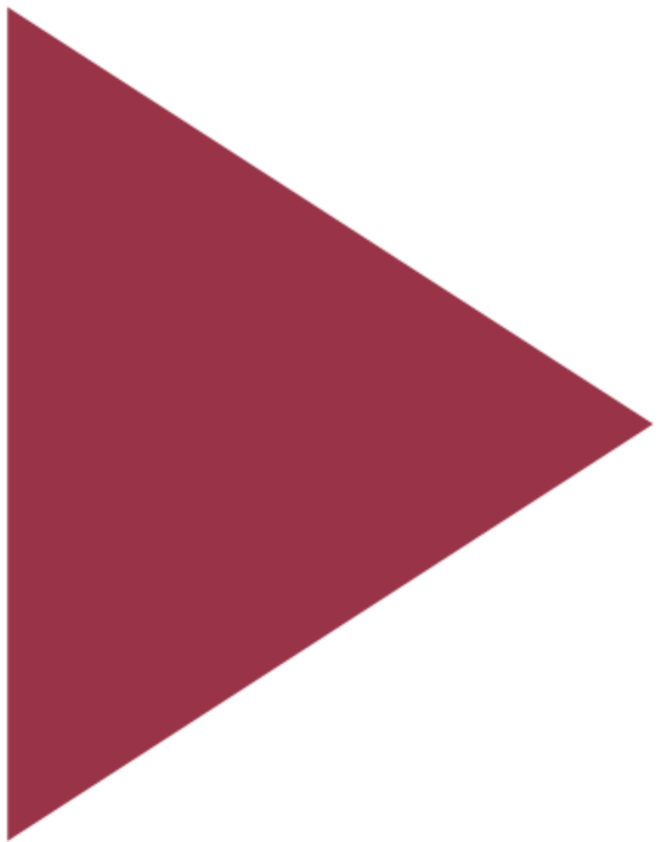- -API Reference showing basic requests to the API

Data Visualization

Populated a grid to scale with the UK based on latitude(61N - 49N) and longitude(8W-2E).

Interactive pixels in purple showing areas where Santander ATMs are located.

Using the API, can view information on the accessibility of all the ATMs in a given area.

Demo