PropertyMate.xyz

With the recent release of the [PSMA G-NAF dataset on data.gov.au](#), we would like to integrate address search & validation into our products. Given the nature of the data and how it will be used it makes sense to build it as a separate service.

A prototype front-end has been built to utilise an API and explore the data, we now need connect that prototype to the data using an API. This front-end is an evolving prototype for exploration of various front-end technologies. The prototype of the front-end can be found at [api-check.propertymate.xyz](#).

Our front-end expects to be able to send an incomplete address string, eg "4 mark", and for the API to suggest the most relevant matches, along with the other address attributes for each suggestion. Attributes such as street number, postcode, land parcel.

Some work has already been done to load this data into elasticsearch, our preferred data store for this service. The project at [github.com/ondrejivanic/G-NAF](#) can be used to load the raw G-NAF data into postgres. A copy in json format (json record per line) is available at [data.propertymate.xyz/brisbane-cbd-area.json.gz](#), with the addition of the address string already concatenated.

Summary:
- Download the recently open address data from the PSMA (data.gov.au);
- Ingest into elasticsearch; Create a console application that accepts the data.json & target elasticsearch instance. We'll need to be able to run this ourselves.
- Build a simple REST API (using ServiceStack, Nancy or WebAPI) on top of it;
- Wire REST API into the (already existing) front-end for address searching.