Dataless Network

Making the internet accessible for everyone, everywhere.

Ben Emmons, Reilly Hewitson, Benjamin Lewis

Concept

Many people have limited access to the internet due to:

- Lack of infrastructure
- Running out of mobile data
- Government censorship.

Dataless Network was founded to provide an alternative; by utilising SMS - a network usually far more available both geographically and financially than 3G/4G, internet traffic can be requested and returned, all via standard text messages.

Even in places where mobile data is ubiquitous, many people find their data runs
short very quickly, creating inconvenient and potentially even dangerous circumstances in which they lack access to the internet. We did some basic market research, questioning students in the Reading area about how much of their SMS and mobile data contracts they used. The response was overwhelmingly that they went over their allowance of mobile data whilst barely using any of their SMS allowance, instead opting to communicate using apps like Snapchat and Instagram.

This was what motivated us to explore the concept.

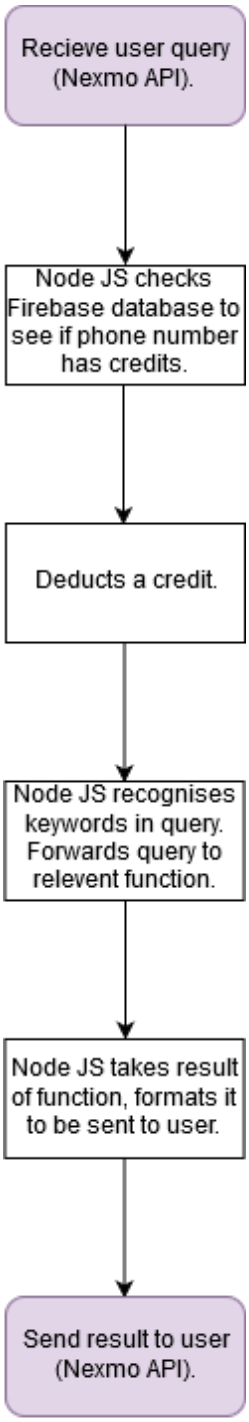
Functionality

For the Beta release of Dataless, we have chosen to use six different sources of information, however the backend is modular allowing for new API's to be added extremely easily (A single JS function).

Wikipedia	News	Translation	Transport	Weather	Dictionary
Summarise any wikipedia article.	Get headlines from multiple news sources.	Translate any word or phrase.	Get train and bus times.	Get weather forecasts.	Define any word from any language.

Implementation

Our current implementation of the concept uses the Nexmo API to send and recieve text messages and a Firebase database to store the amount of credits a phone number has associated with. These messages are handled by a backend AWS Lambda deployment.
This deployment (at its most basic) looks like this:



Monetization

Due to the service utilising the cloud for its database and processing, it's costs total are very low.

Fixed Costs (Yearly)

Name	Price	Payments Per Year	Subtotal
Domain Dataless.network (namecheap)	£3.38	1	£3.38
Phone Number 0741834269 (nexmo)	£1.11	12	£13.32

Total **£16.70**

Variable Costs

Name	Price	Subtotal
SMS Message (Send) Nexmo	£0.0333	£0.03

Total **£0.03**

About Us

Ben Emmons

- Graphic Design
- Backend Node JS
- Content Writing

Reilly Hewitson

- Web Development
- Front-end JS

Benjamin Lewis

- AWS Deployment
- Nexmo Implementation