

# Noah Zweben

## Voting Site Customizer

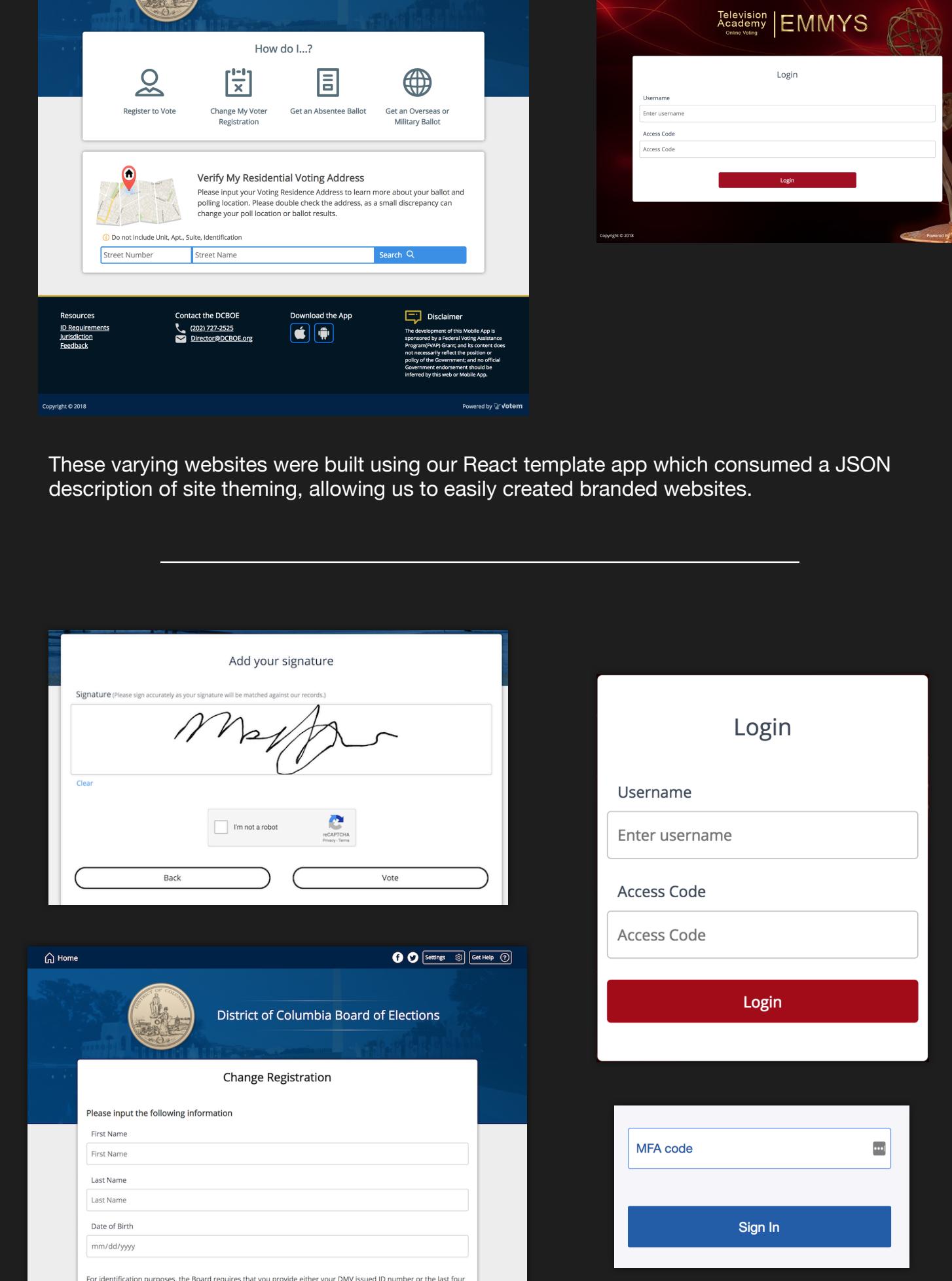
### Problem:

Working with both government and private customers, we quickly realized each client had very specific needs regarding theming, how voters should "log in" to access their ballots, and custom functionality.

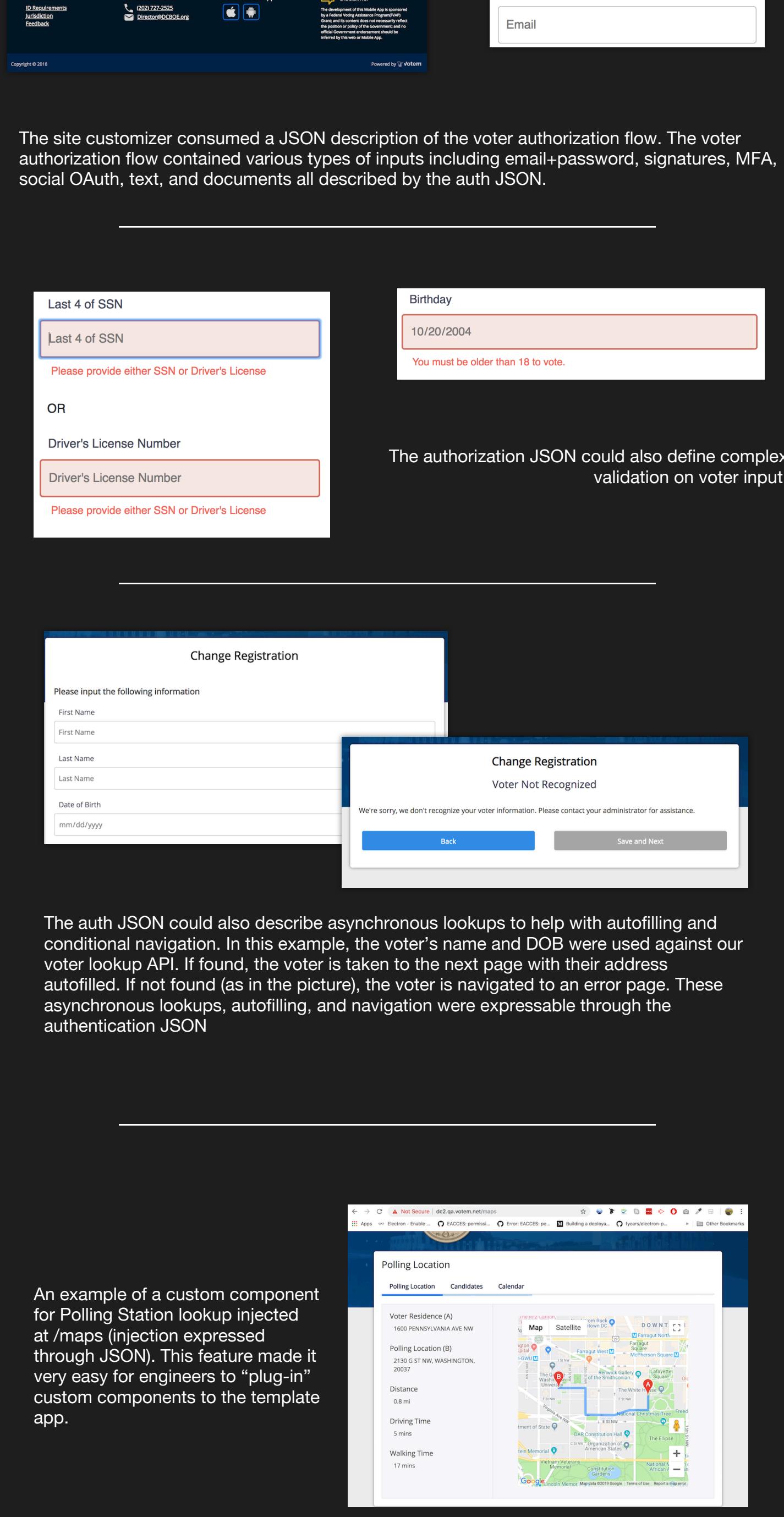
**How can I speed up the development and customization of election sites with regards to UI, complex voter authorization, and custom functionality?**

### Solution:

A configurable template app that used a JSON config to express client UI, complex voter authorization methods, and custom functionality injection allowing non-engineers to set up a variety of election types.

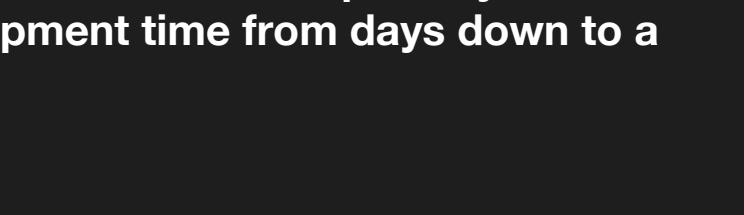


These varying websites were built using our React template app which consumed a JSON description of site theming, allowing us to easily created branded websites.



The auth JSON could also describe asynchronous lookups to help with autofilling and conditional navigation. In this example, the voter's name and DOB were used against our voter lookup API. If found, the voter is taken to the next page with their address autofilled. If not found (as in the picture), the voter is navigated to an error page. These asynchronous lookups, autofilling, and navigation were expressable through the authentication JSON.

An example of a custom component for Polling Station lookup injected at /maps (injection expressed through JSON). This feature made it very easy for engineers to "plug-in" custom components to the template app.



The JSON theming and authorization template system allowed us to cut election development time from days down to a matter of hours.