

# 1.4

## ~~Query Caching~~ (Reverted due to issues)

Version 1.4 contains a large update to caching, querysets and other SQL operations are now cached. A lot of work was put in to make sure users wont see any stale data on the page, which is a common side affect of caching.

### Benefits

1. Much faster page navigation and data loading.
2. Reduced load on the server

### Caveats

1. Since querysets are now cached any changes we make in data administration will likely not show up until those caches expire (1 hour)
2. Stale Data - We need to pay close attention to any areas of the system that might not be reflecting the latest changes.
3. Cache is set the first time a page is loaded, this actually causes about a 10% slowdown at first, but future page loads will be up to 5x faster.

**NOTE:** The caching feature has been reverted after reports of odd behavior, will look into again at some point since the site ran way faster.

## Speed Improvements

Since the caching did not go as planned some more work has been put into making the front end faster and more efficient. I found that using `_.merge()` in Vuex was causing a huge slowdown, it's surprisingly fast to do a native spread merge `{...obj1, ...obj2}`

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