```
****************************************
BEFORE changes
****************************************

index.php
------------------------------------------
No Throttling: Finish 403ms
              21.3K transferred
              DOMLoaded 321ms
              Loaded 407ms
Slow 3G:      Finish 6.49s
              21.3KB
              DOMLoaded 4.21s
              Loaded 6.49s


publicBoard.php
------------------------------------------
(Boardname: Efficiency Check, 12 images(1.3MB), 12 sounds(180KB))
No Throttling: Finish 11.59s
              1.4MB
              DOMLoaded 10.58s
              Load 11.55s
Slow 3G:      Finish 33.93s
              1.4MB
              DOMLoaded 4.18s
              Load 33.94s


myboards.php
------------------------------------------
No Throtting: Finish 318ms
              DOMLoaded 263ms
              21.3KB
              Load 321ms
Slow 3G:      Finish 6.44s
              DOMLoaded 6.16s
              21.3KB
              Load 6.44s


board.php
------------------------------------------
(Boardname: Efficiency Check, 12 images(1.3MB), 12 sounds(180KB))
No Throtting: Finish 1.22s
              DOMLoaded 238ms
              1.4MB
              Loaded 1.22s
Slow 3G:      Finish 32.51s
              DOMLoaded 4.27s
              1.4MB
              Load 32.52s
```

```
*****************************************
AFTER changes
*****************************************
```
We already had a pretty well performing site; however, we did a lot of
polishing and we specifically added MOD_PAGESPEED to Apache. This
improved
our performance times by approximately 5%.

We also added pagination which improved performance by only fetching
the
necessary amount of data from the server, depending on the page the
user
is viewing.

We also made many security improvements, including locking down our
assets
directory as well as our database access configurations. We added
client-side
file type checks (besides the back-end file type checks) so that
clients cannot
upload files that are not image or audio files.

We also improved validation by sanitizing fetching scripts to prevent
malicious
code being run on our fetch scripts.

We also polished further by making sure error messages like bad
username/password
or bad signup/bad email are clearly shown to the user.