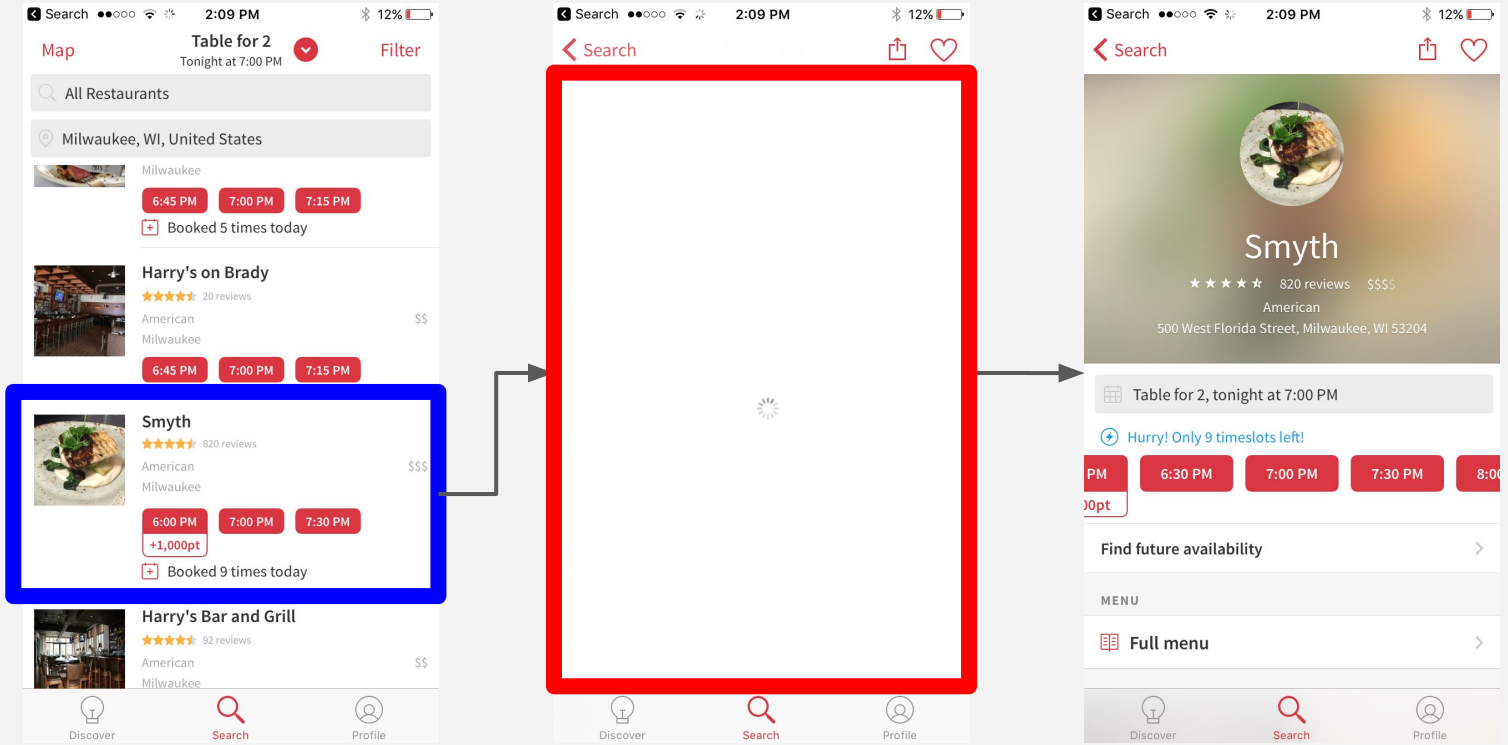
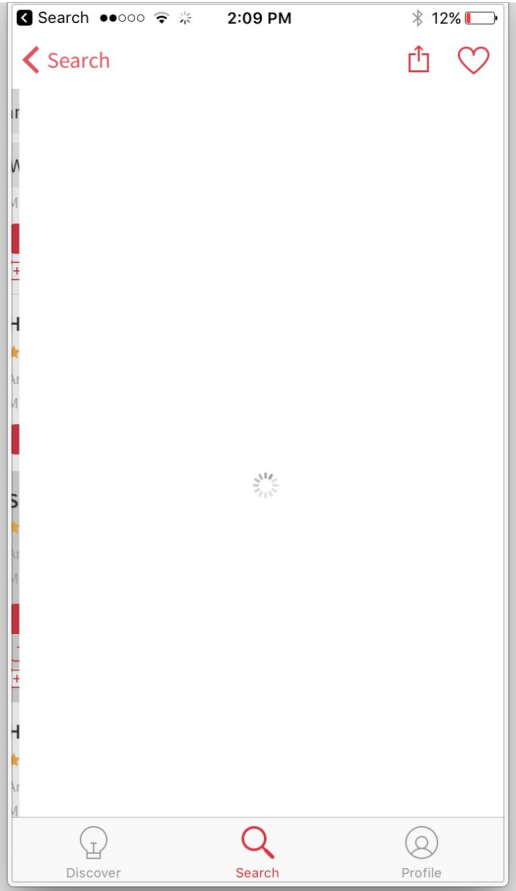
OpenTable + Caffeine (A latency discovery)

We tested OpenTable's iOS app traffic on a cellular connection.

We found significant opportunities for improvement that are relevant to engagement, user experience, and other strategic objectives.

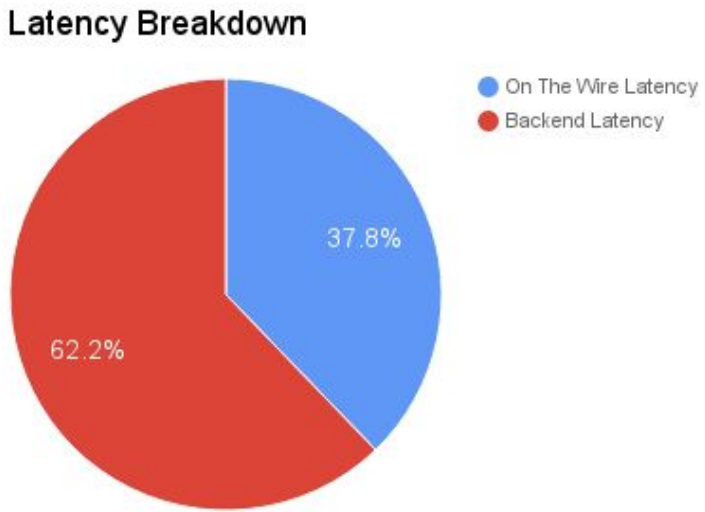
/api/v2/restaurant





/api/v2/restaurant

Total response time: 799ms



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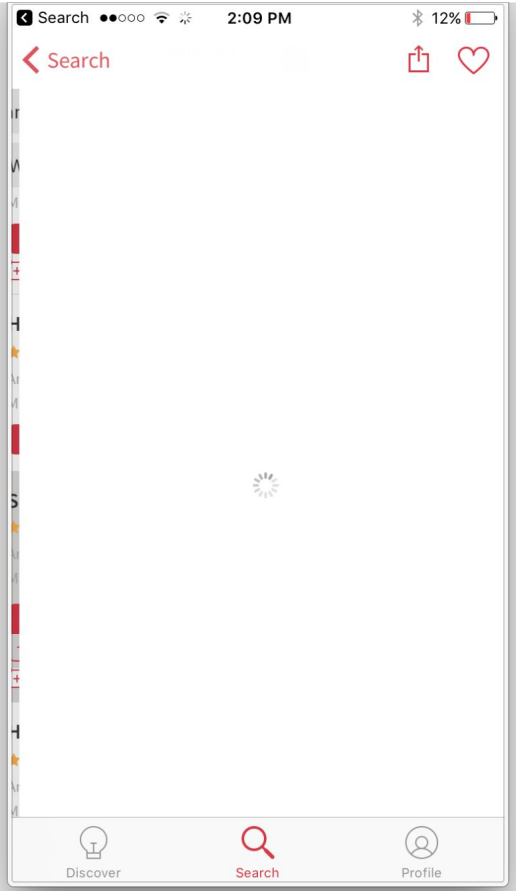
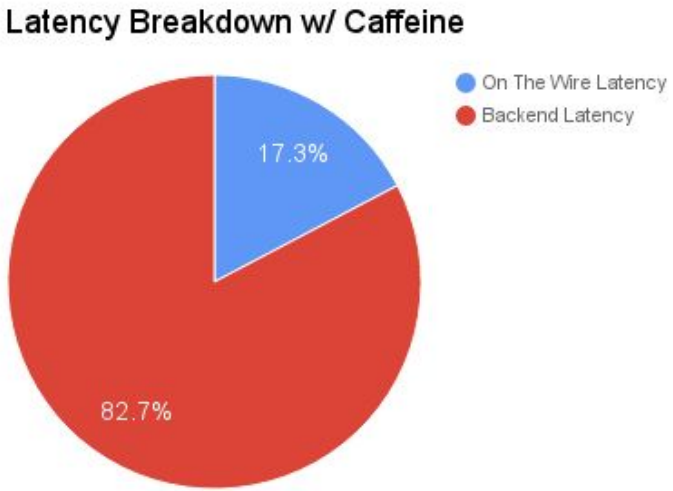


With

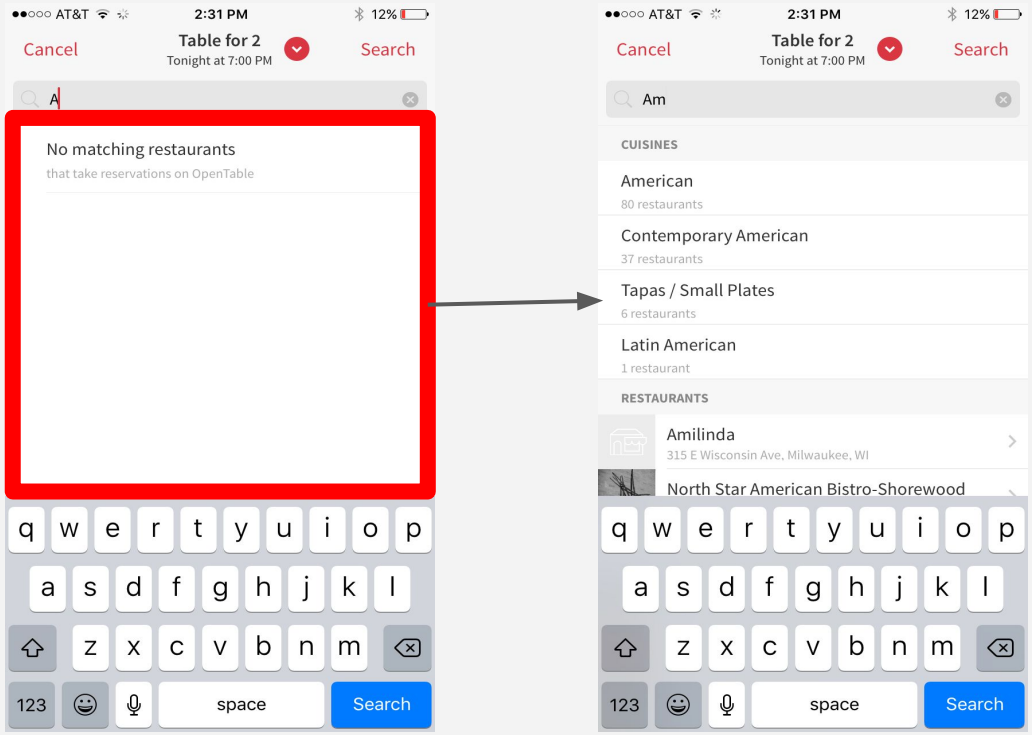
New Total Response Time: ~590ms

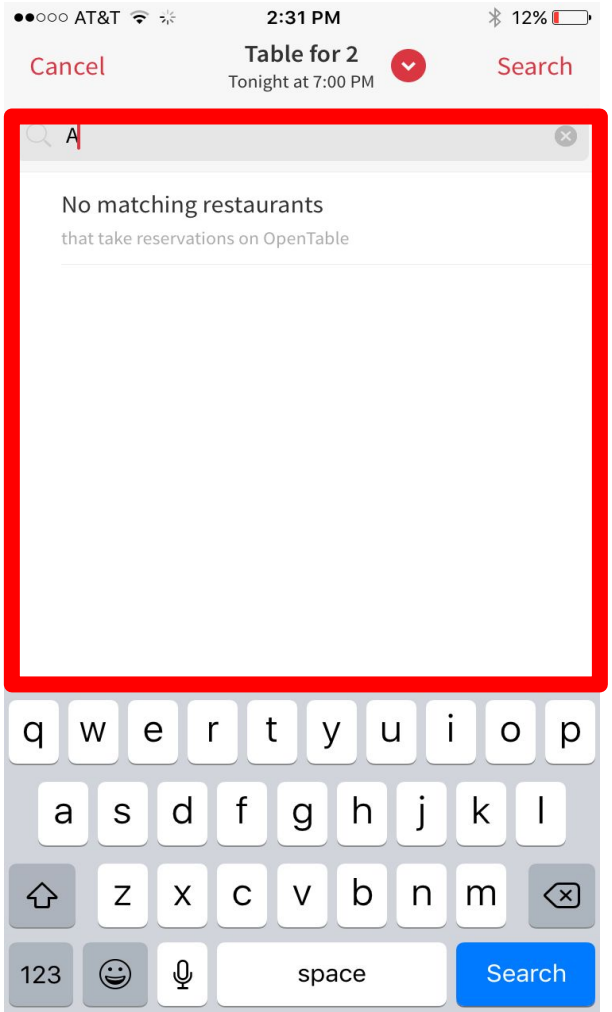
Caffeine removes more than 200ms



Restaurant Autocomplete

api/v2/personalize/autocomplete

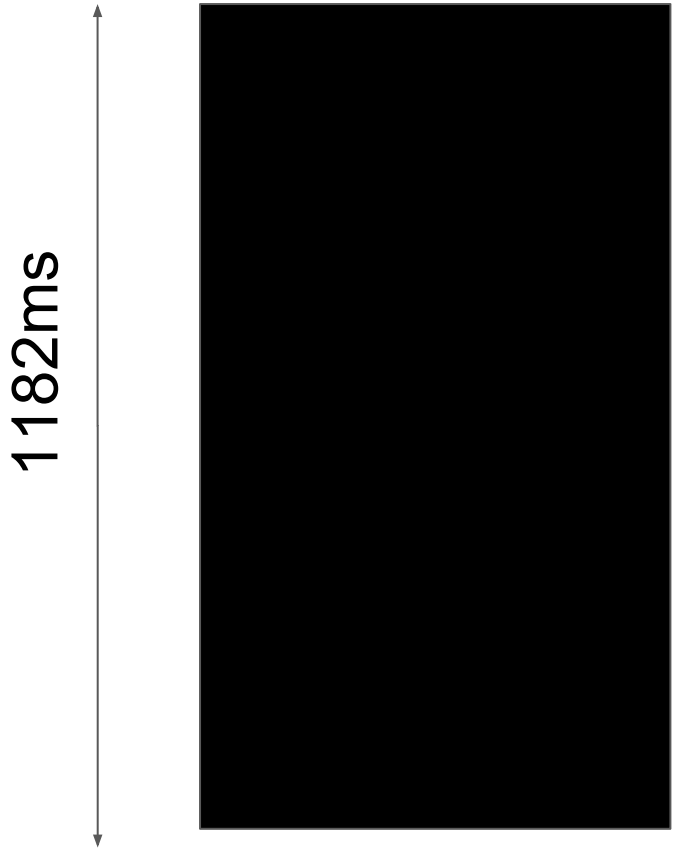




api/v2/personalize/autocomplete

Where are packets spending their time?

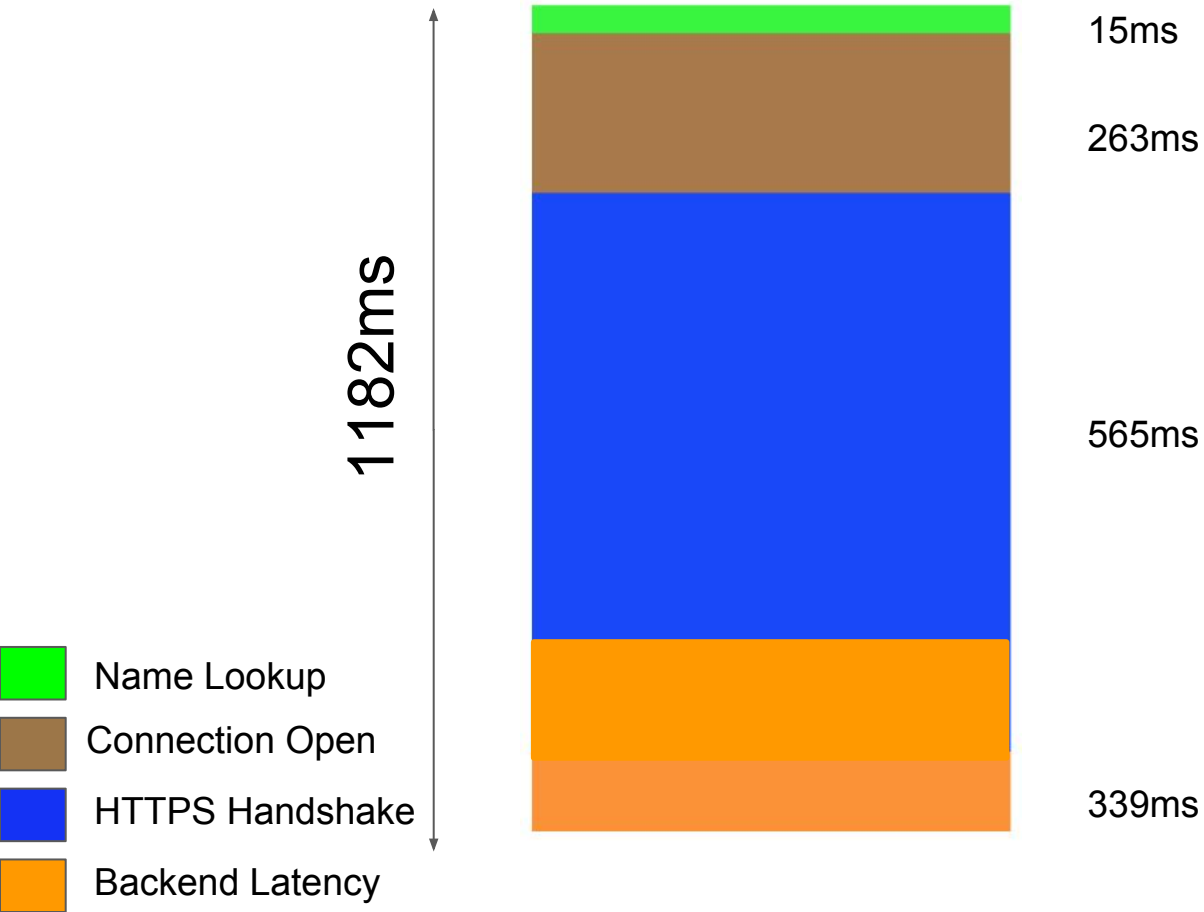
Restaurant Autocomplete



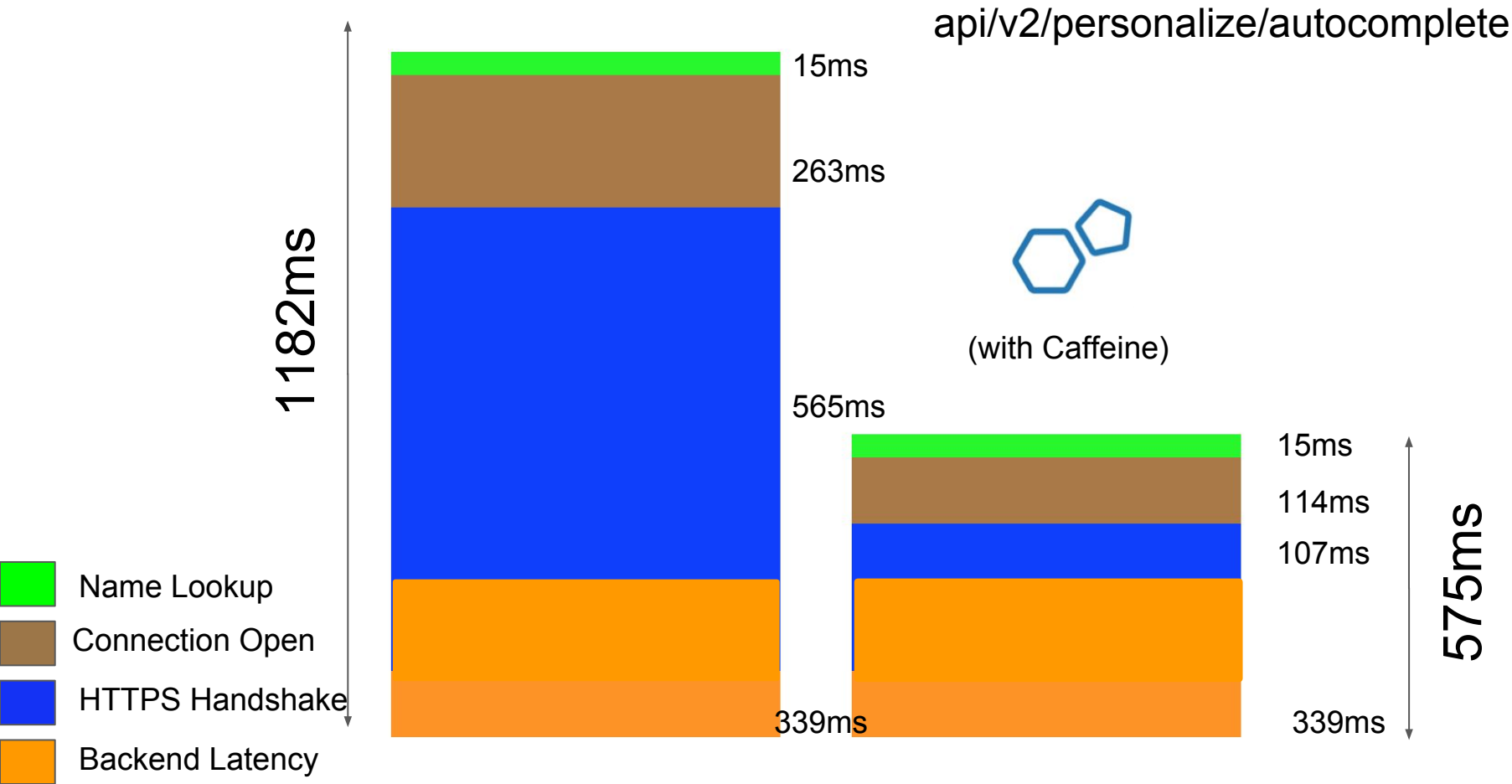
api/v2/personalize/autocomplete

NOT Backend Latency

api/v2/personalize/autocomplete



Caffeine Shaves off “On the Wire” Latencies



Key Points

- Loading states block UI, poor user experience
- Caffeine can double speed of search autocomplete
- More performance gains unlocked in emerging markets with 3G connections
- Turn-key solution, perfect-forward-secrecy and certificate pinning for free

Recommended Next Steps

Caffeine should be tested by OpenTable's iOS developers in a staging environment to ensure that performance gains described in this report translate to their own environment.

Caffeine also ships with an A/B testing mechanism to allow OpenTable to set some percentage of user sessions eligible to use Caffeine. This can be used in production.

For any questions, please contact James Graham, CEO @

james@caffei.net, 857-231-2832