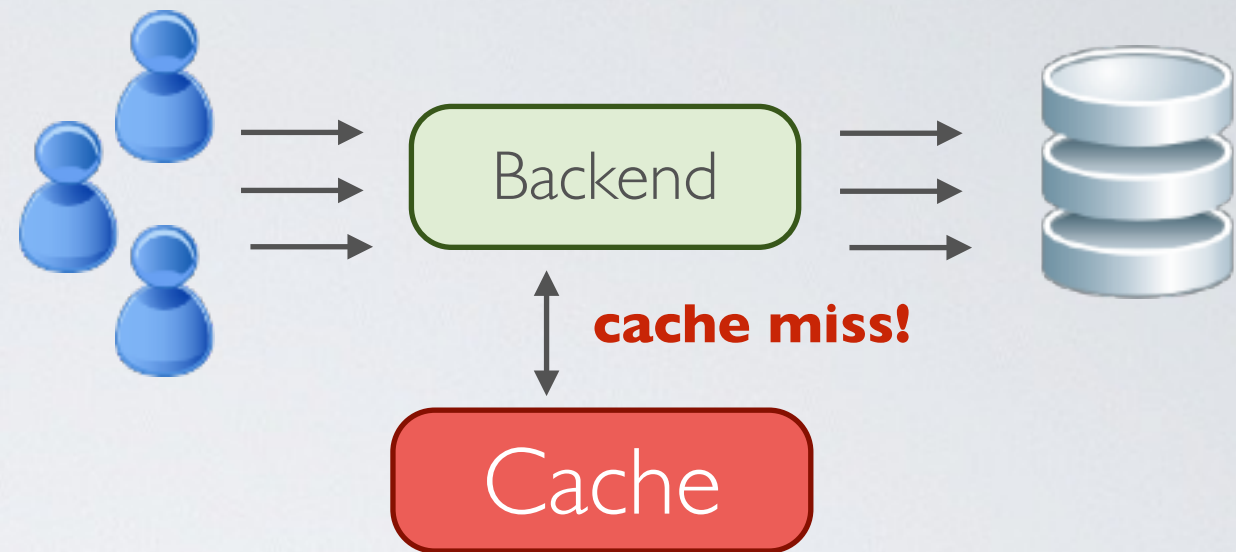


# A typical cache algorithm

```
retrieve from cache  
if data not in cache:  
    # cache miss  
    query the database or API  
    update the cache  
return result
```

# Cache Stampede (a.k.a dog piling)



## Problem:

Multiple concurrent requests doing the same request because cache was cleared

## Solution:

- update the cache instead of clearing it after an insert
  - a page view will never query the database
- ➡ Requires cache warming