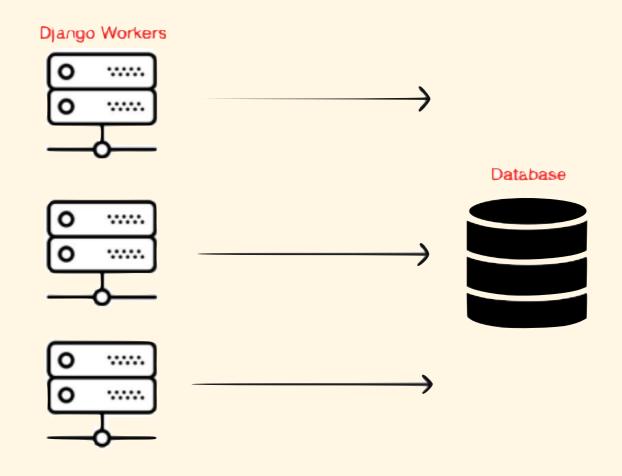
## What is a distributed system? Every Django app.

- > Each Django request handler is a separate thread
- > What happens when two threads try to do something critical at the same time? e.g. update a user's balance



## Other threads writing will break the bank

## Failure if two threads execute withdrawals at once:

```
if (user.balance == 100) {
   user.balance == 100  # 2nd thread can .save() a 100 withdrawal befo
   user.save()  # balance is now 0 but should be -100
}
```

aka "Time of check to time of use"-bug (TOCTTOU).

