

# ASKDj

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COS 333  
final project

# Overview

- Motivation
- Challenges
- Infrastructure
- Demo
- What we learned



# Use cases

- Informal parties
- Want more audience engagement
- Diverse audience tastes/pool of songs

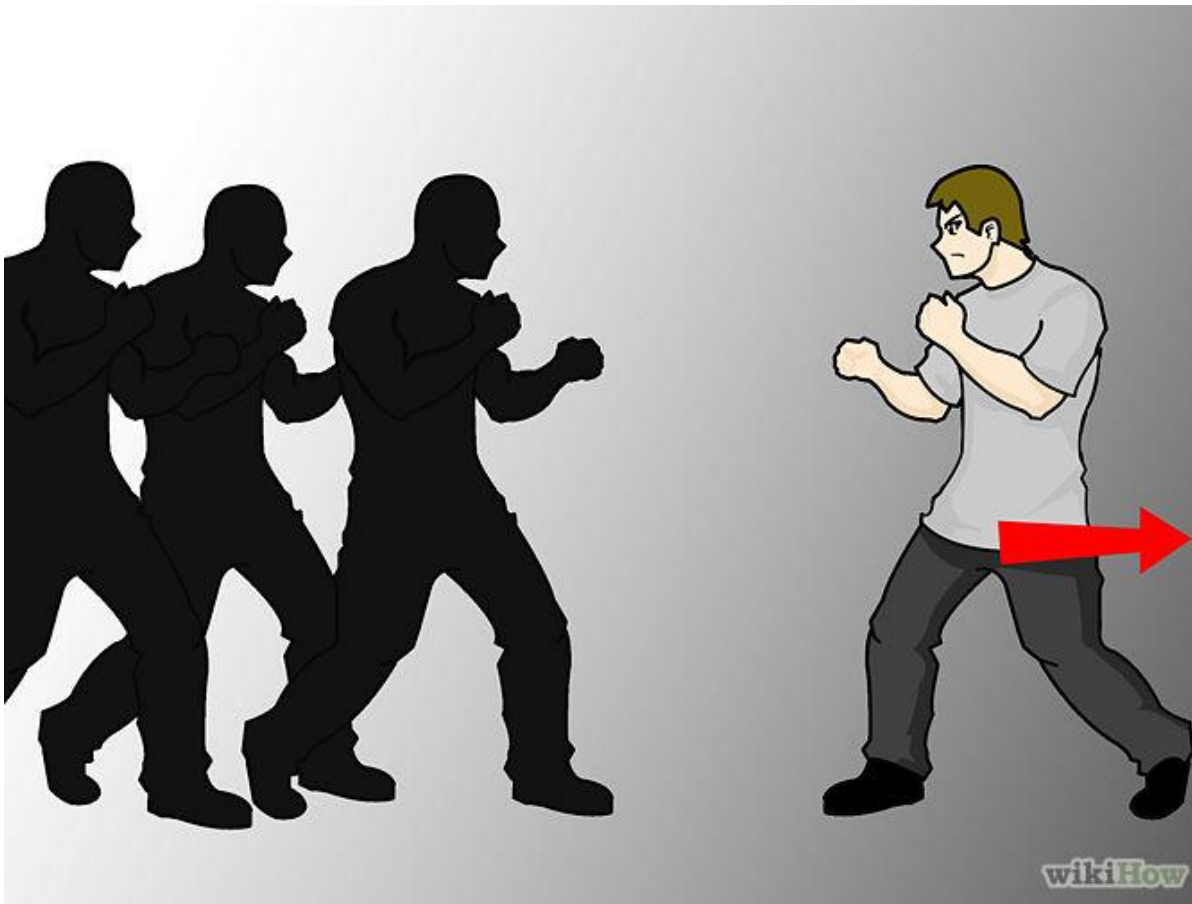
# Challenge: user expectations



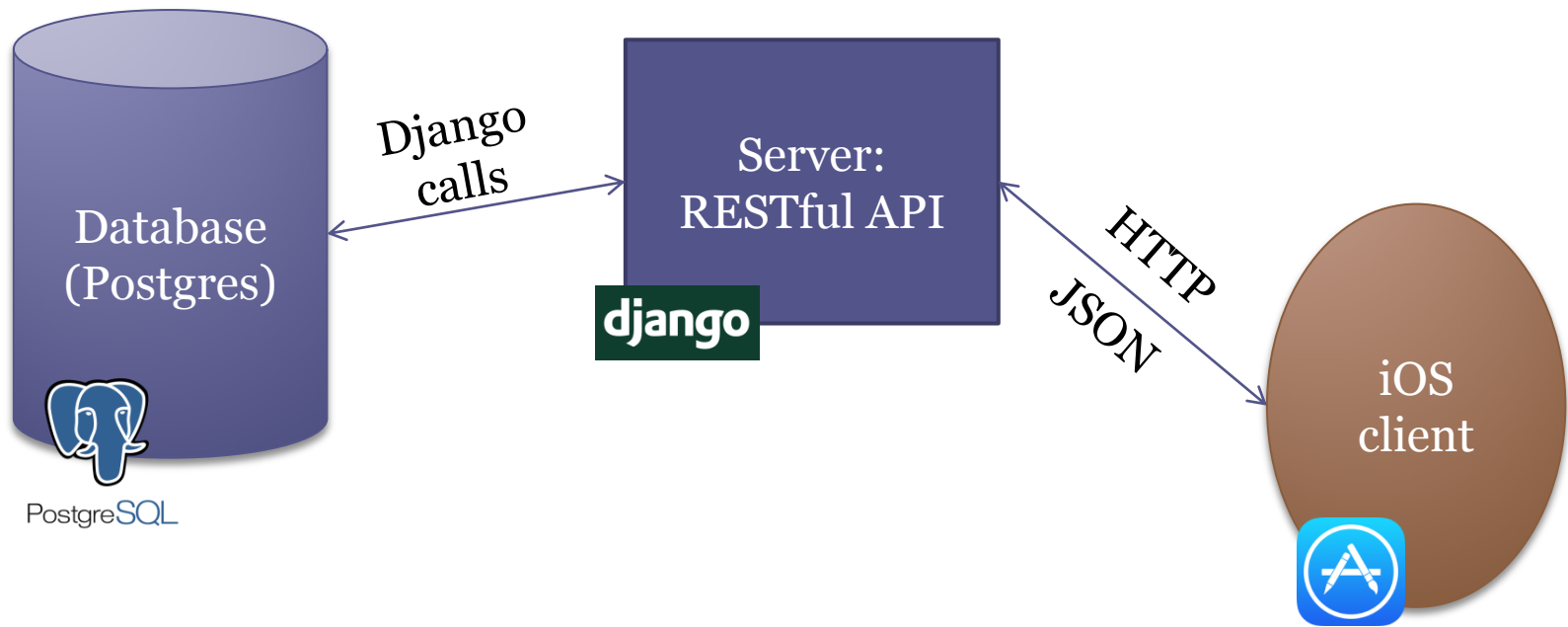
# Challenge: rights management



# Challenge: concurrency



# Components

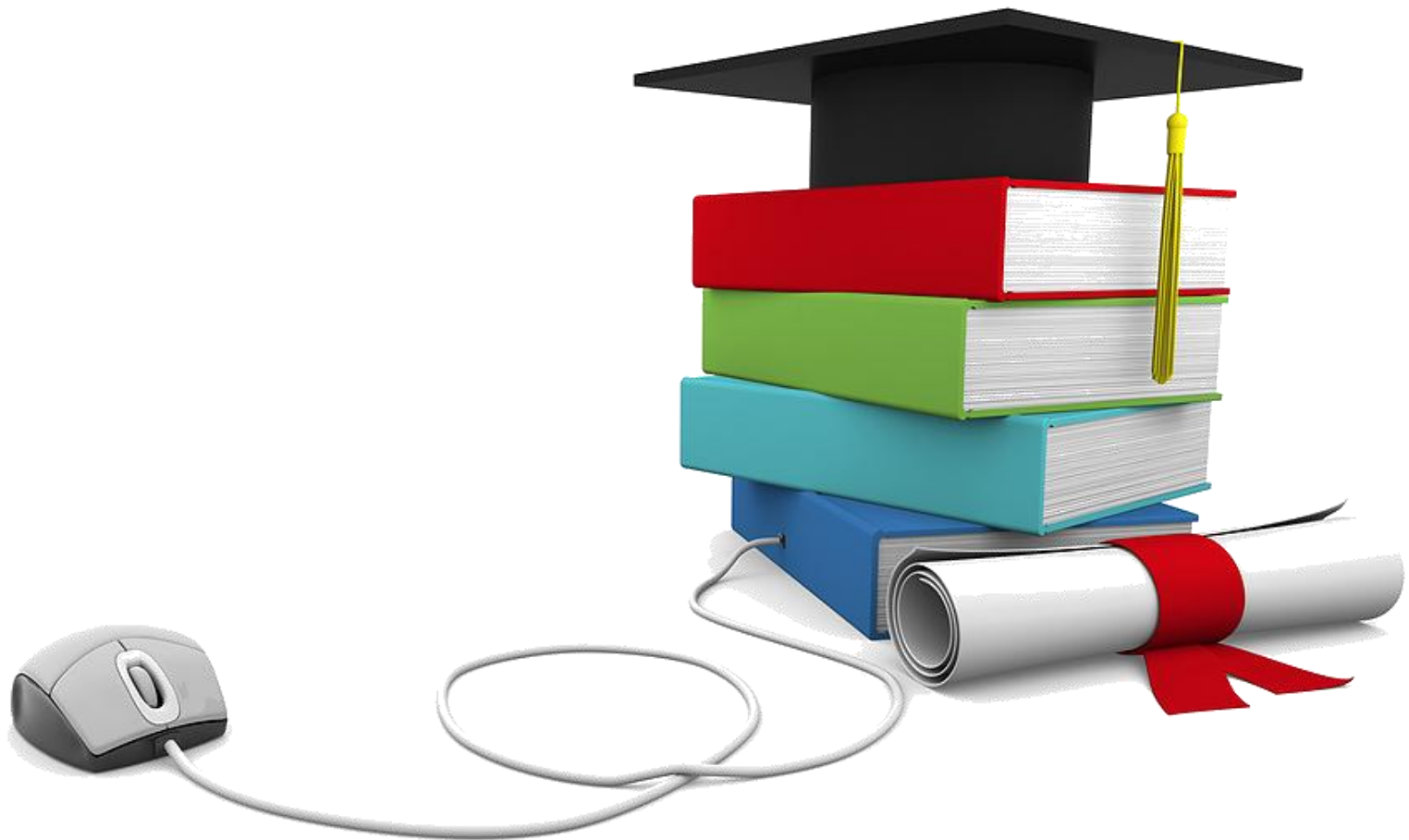




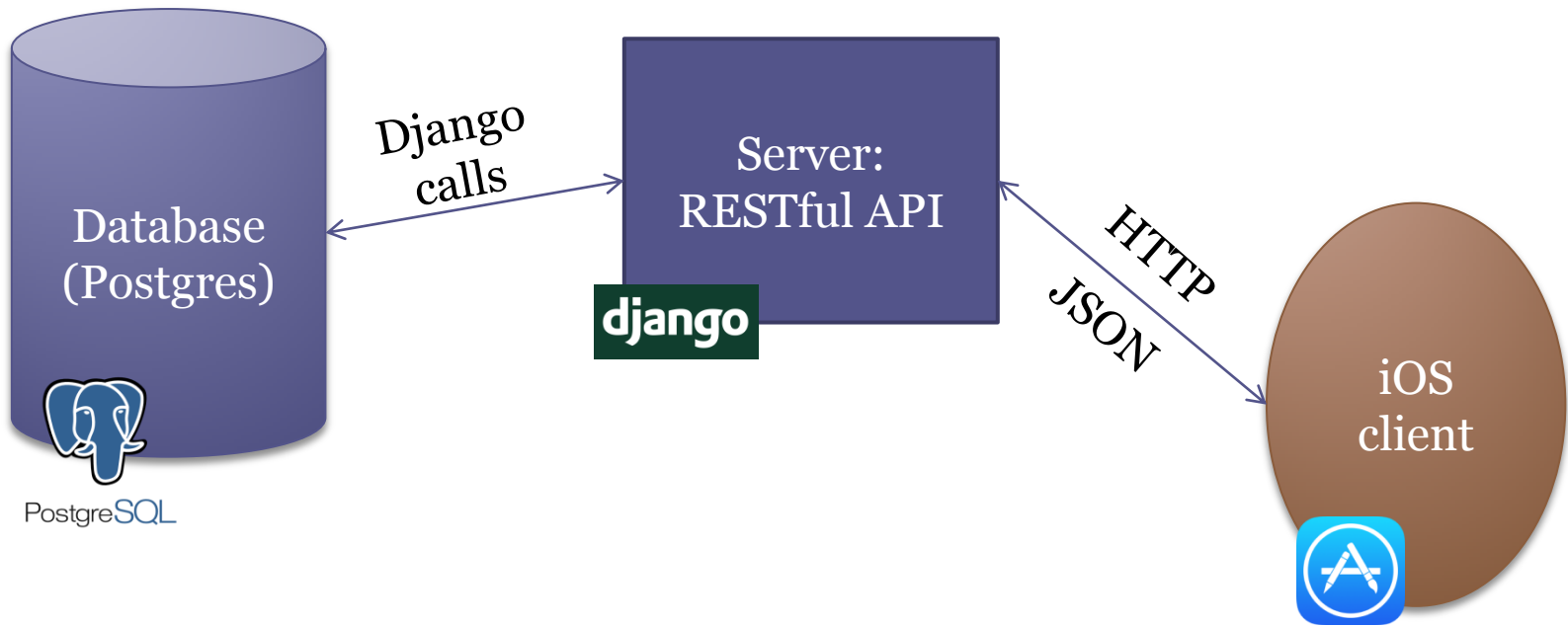
# Let's create a room!



# What we learned



# What we learned



# Spot the performance issue?

```
def _songToDict(song, user, identifiers=False):
    ...

    if not identifiers:
        if song.votes_set.exists():
            dict["voteTotal"] = song.votes_set.aggregate(
                vote_total = Sum('weight'))["vote_total"]
            dict["userHasVote"] = song.votes_set.filter(
                voter = user).exists()
        else: # short-circuit and normalize
            dict["voteTotal"] = 0
            dict["userHasVote"] = False
    ...

    return dict
```

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Questions?