

BACKEND FRAMEWORK (DJANGO)

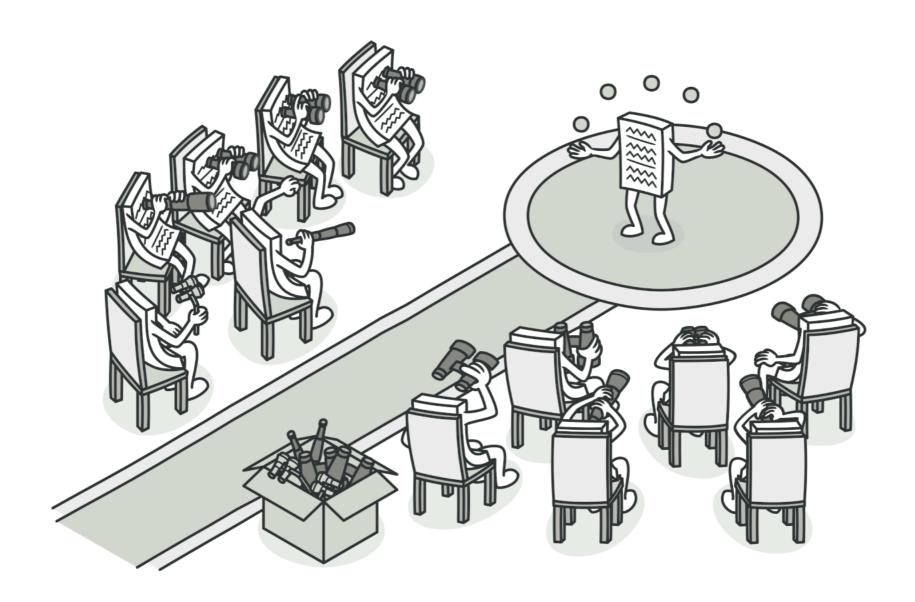
Lesson 10



Django Signals

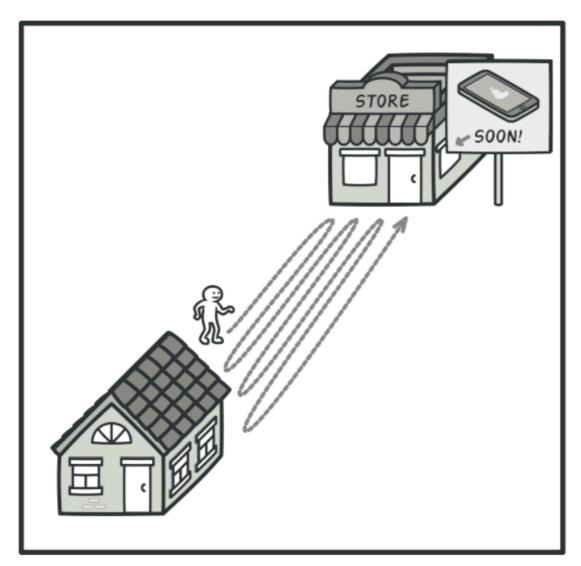


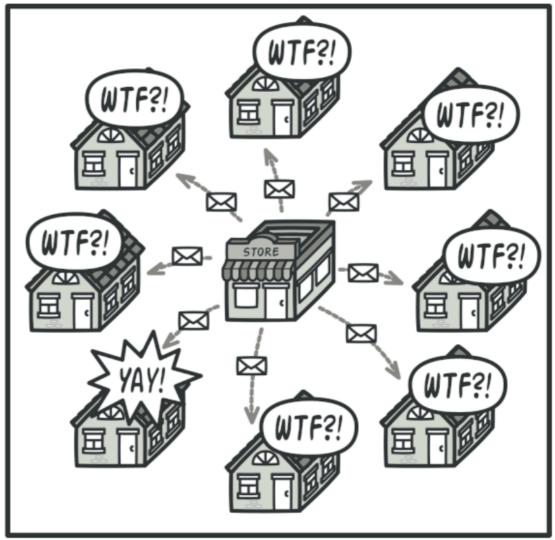
Observer Design Pattern





Problem







Solution

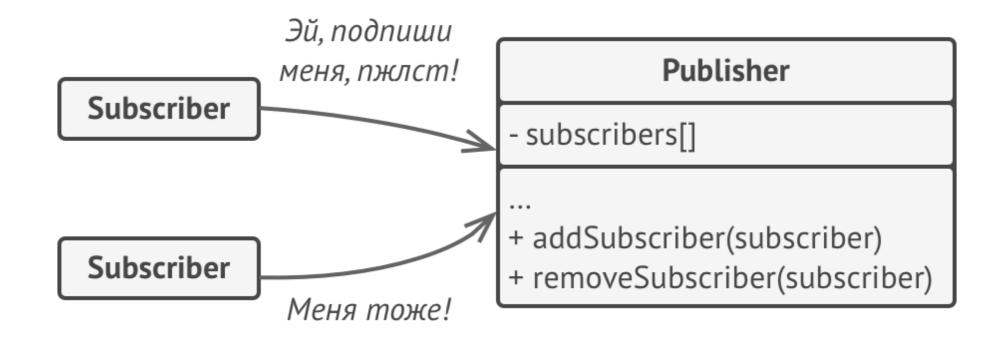
Publisher

objects that contain an important or interesting data for others

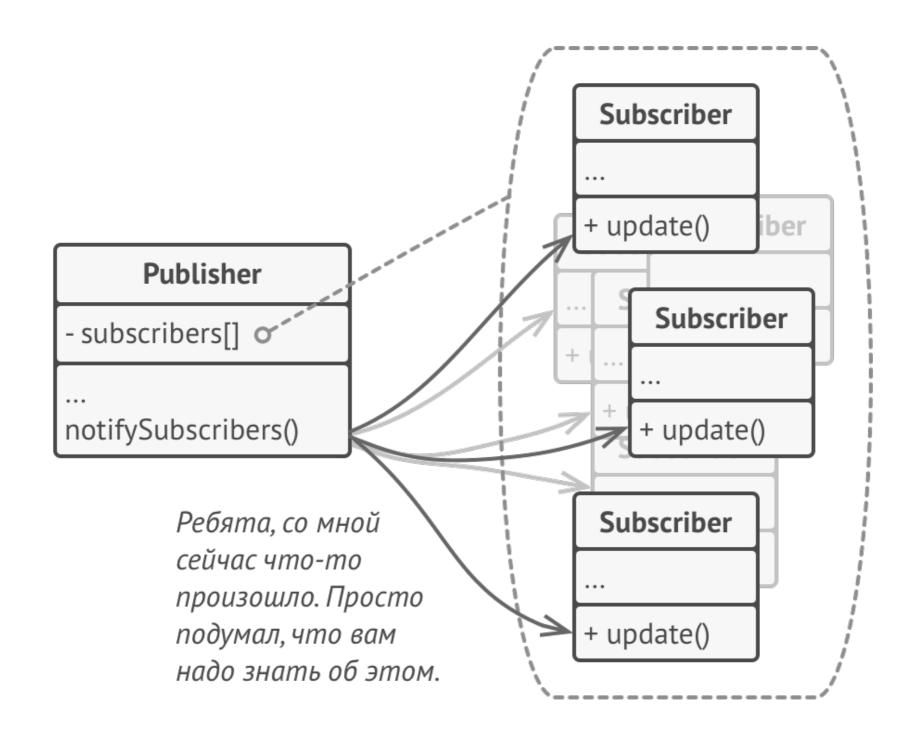
Subscriber

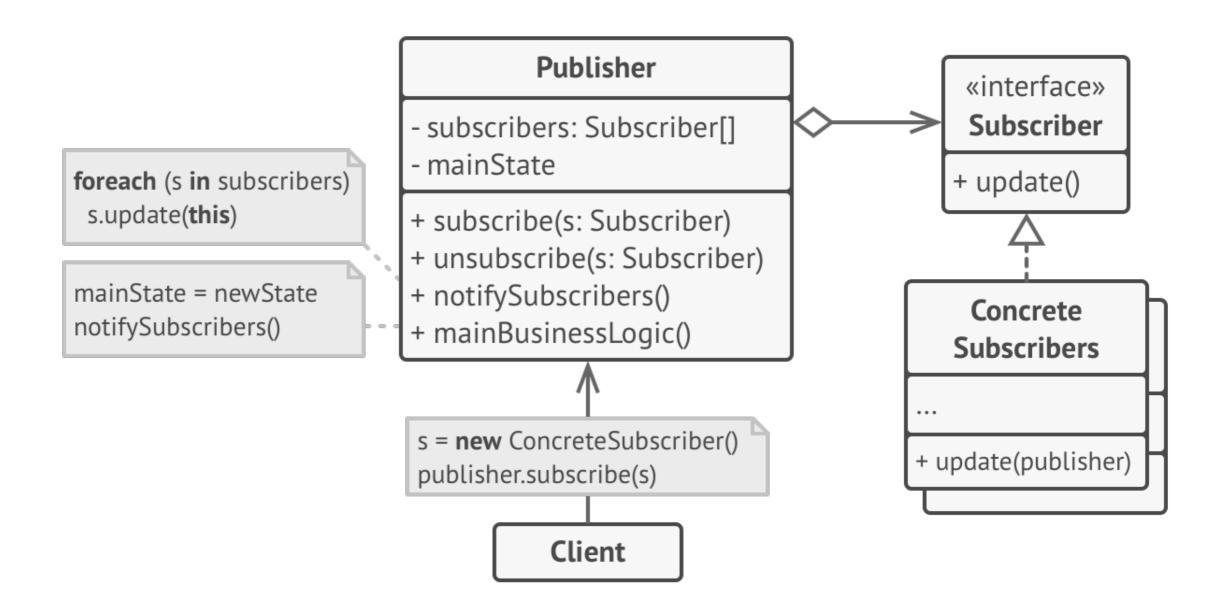
who want to track changes of interesting data













Django Signals

Publisher Signals

Subscriber Receiver



django.db.models.signals

- pre_save | post_save
 - Sent before or after a model's save() method is called.
- pre_delete | post_delete
 - Sent before or after a model's delete() method
- m2m_changed
 - Sent when a ManyToManyField on a model is changed
- request_started | request_finished
 - Sent when Django starts or finishes an HTTP request

https://docs.djangoproject.com/en/2.2/topics/signals/



User profile creation

using **Django signals**

```
from django.db.models.signals import post_save
from django.dispatch import receiver

@receiver(post_save, sender=User)
def user_created(sender, instance, created, **kwargs):
    if created:
        Profile.objects.create(user=instance)
```



Tell Django where the receivers are

```
__init__.py of applicationdefault_app_config = 'users.apps.UserConfig'
```

apps.py of application

```
class UsersConfig(AppConfig):
    name = 'users'

def ready(self):
    import users.signals
```



User profile creation

overriding save() method of User model

```
def save(self, *args, **kwargs):
    super(User, self).save(*args, **kwargs)
    Profile.objects.create(user=self)
```



User profile creation

overriding save() method of User model

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def save(self, *args, **kwargs):
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```

what is the problem in above code?



Questions?

