

## Kan Bankası

#### Backend







#### Frontend

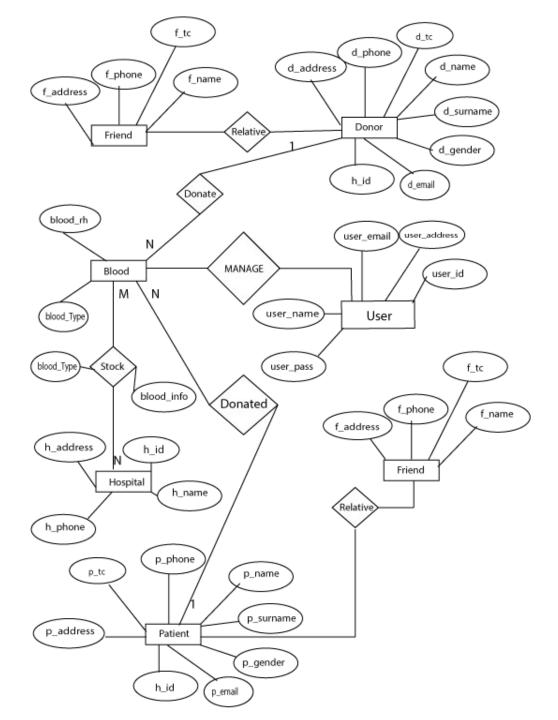




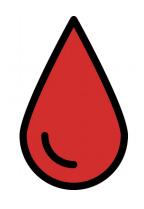


#### Database

#### Er Diagram

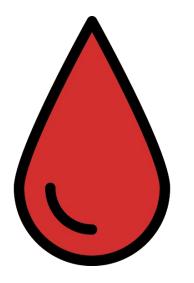


#### Kan Bankası

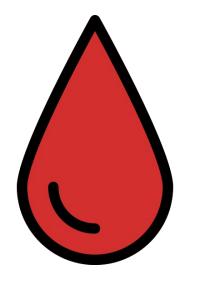


Amaç:

Kan veren/alan bilgisi düzenli olarak saklamak

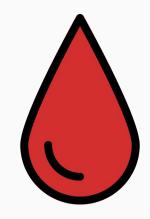


#### Karşılaştığım Sorunlar



### Kan Grubuna Göre Tablonun Güncellenmesi

#### $\circ A + \circ A - \circ B + \circ B - \circ AB + \circ AB - \circ O + \circ O -$



#### Search

İsim	Soyad	Cinsiyet	Tel	Kan
Recep	Güneş	е	5501502645	3
Salih	Turan	е	123456789	5
Nazlı	Keskin	e	98765432	5
Yeşim	Yüksel	k	451651651	4
Aslı	Bozkurt	k	15151	6

## AjaxPrefilter



```
$('input[id="kanarama"]').on('click', function(e) {
    $.ajaxPrefilter(function( options ) {
    options.url = "/hasta/json?kan="+e.target.value
    });
    var $table = $('#table');
    $table.bootstrapTable('refresh');
});
```

Ekle Düzenle Sil

$$\circ$$
 A+ $\circ$  A- $\circ$  B+ $\circ$  B- $\circ$  AB+ $\circ$  AB- $\circ$  O+ $\circ$  O-

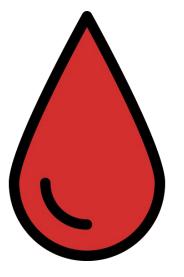


Search

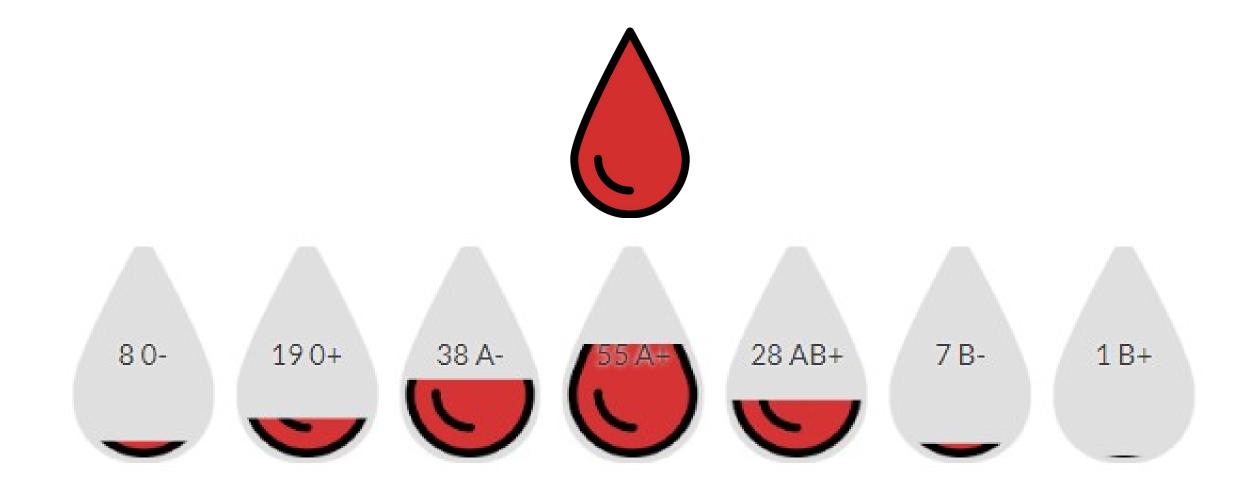
İsim	Soyad	Cinsiyet	Tel	Kan
A.Arif	Deneme	e	905531118273	1
hasta1	hastasoyad	е	5531118273	1

Showing 11 to 20 of undefined rows

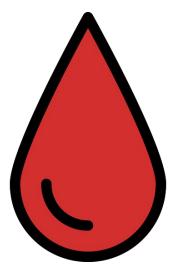
10 rows per page



## Stok Durumu

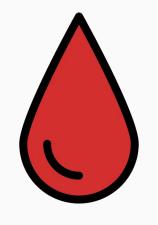


#### loading-bar.js



## Validation

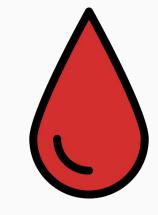
## Validation Backend from flask\_wtf import FlaskForm



from wtforms import StringField, PasswordField, SubmitField, BooleanField, RadioField, IntegerField

from wtforms.validators import DataRequired, Length, Email, EqualTo, NumberRange

## Validation Backend class Donor(FlaskForm):



```
isim =
StringField('isim', validators=
   [DataRequired('isim gerekli'),
     Length(message='Uyari',
     min=3, max=20)1)
 tel = IntegerField('tel',
validators=[DataRequired('Zorunlu
alan')])
```

#### Validation Backend



```
if a=='create':
  form = Donor()
   if form.validate on submit():
    data=form.data
    return donorApi.create(data)
   else:
    return jsonify(form.errors),500
```



#### Validation Frontend

KAN BANKASI AnaSayfa Hakkında Ha			Ekle		
Donor			Donor Yakını		
Ekle	Düzenle Sil		isim	soyisim	
	İsim	Soyad	is in social		
	DENEME	DENEME	isim gerekli tel	soyisim gerekli adres	
	ali	bak			
	Crazy	Bilal	tel gerekli	adres gerekli	
	Ahmet	Veli	tc	Kan Grubu Aç	
	Asya	Yalçın	tc hatali		
	TEST410	TEST303	hastane	email	
	DENEME	DENEME	cinsiyet	Bu alan Zorunlu!	
	DENEME	DENEME	Oerkek     Okadin		
	DENEME333	DENEME333	Not a valid choice		
	TEST275	TEST32	kan		
		O A+⊙ A-O B+O B-O AB+O AB-O 0+O 0-			
				KAPAT Kaydet	

#### Design Patterns

Singleton (Creational Patterns)
Adapter (Structural Patterns)
Mediator (Behavioral Patterns)

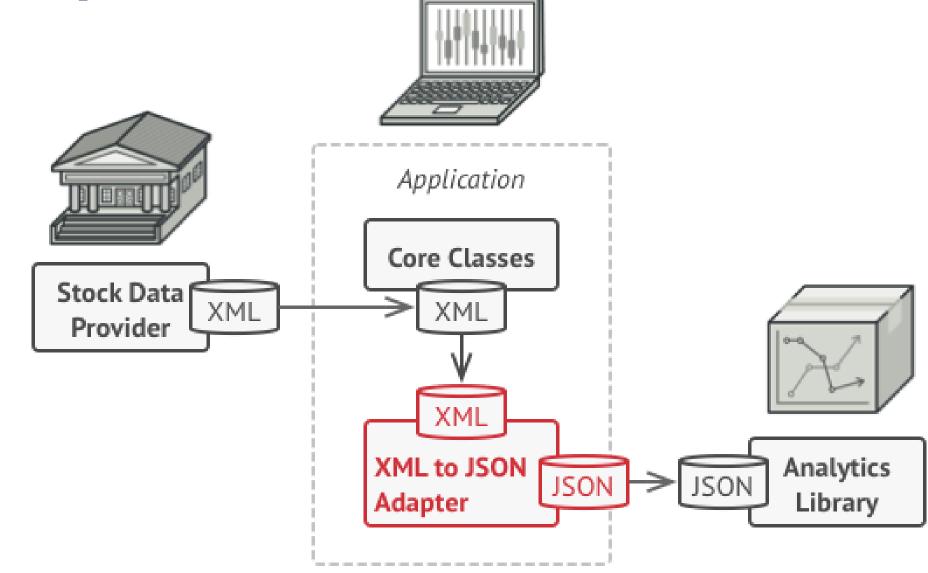
#### Singleton class MetaSingleton(type): instance = None def call (self): if self. instance is None: **self**. instance = **super()**.\_\_call\_\_() return self. instance

#### Singleton

```
class Database(metaclass=MetaSite):1
 def init (self):
   self.con=None
   self.con = psycopg2.connect(...)
     self.con.set client encoding('UTF8')
```

#### Singleton def sqlrun(sorgu): db1 = Database()return db1.execute(sorgu)

#### Adapter



#### Adapter

from kanbankasi.sqlrun import sqlrun

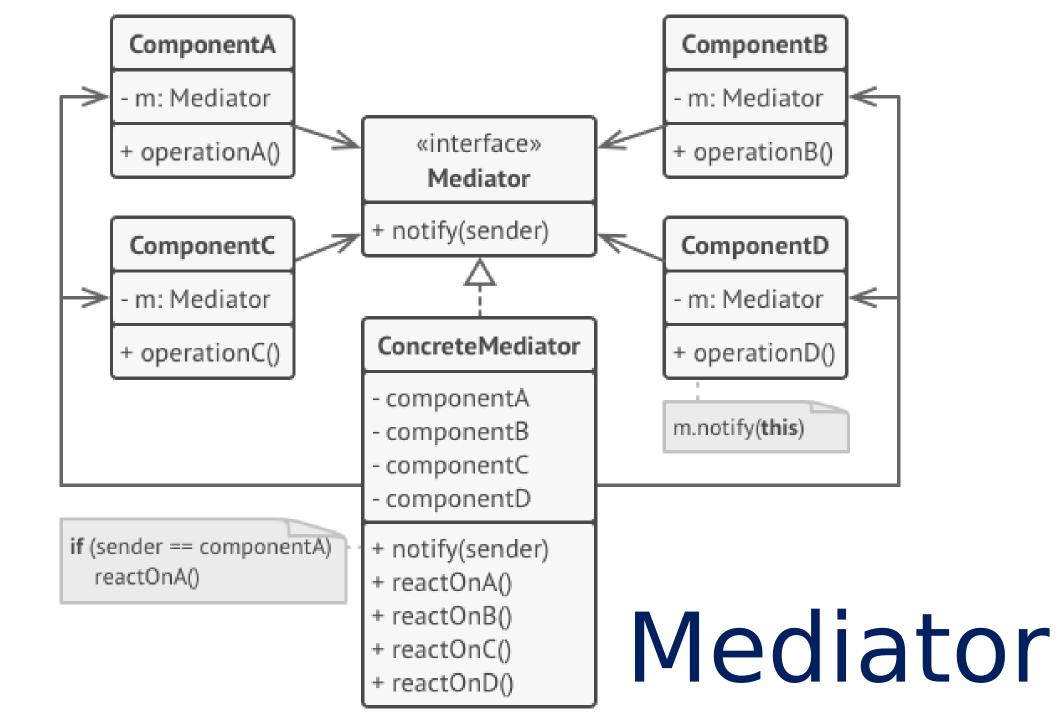
```
class Target:
    #interface
    def
list2json(self,sorgu):
    return sqlrun(sorgu)
```

```
class JsonDict(Target):
  def init (self, sqlrun):
     self.sqlrun = sqlrun
  def list2json(self,sorgu):
  rows=self.sqlrun(sorgu)
  return json.dumps(
   [dict(ix) for ix in rows]
```

#### Adapter

```
def client_code(target,sorgu):
    print(target.list2json(sorgu))
```

```
target = Target()
client_code (target,"select * from
user1")
adapter = JsonDict(sqlrun)
client_code (adapter,"select * from
user1")
```



```
class BaseComponent:
  def init (self, mediator = None):
    self. mediator = mediator
  @property
  def mediator(self):
    return self. mediator
  @mediator.setter
  def mediator(self, mediator):
```

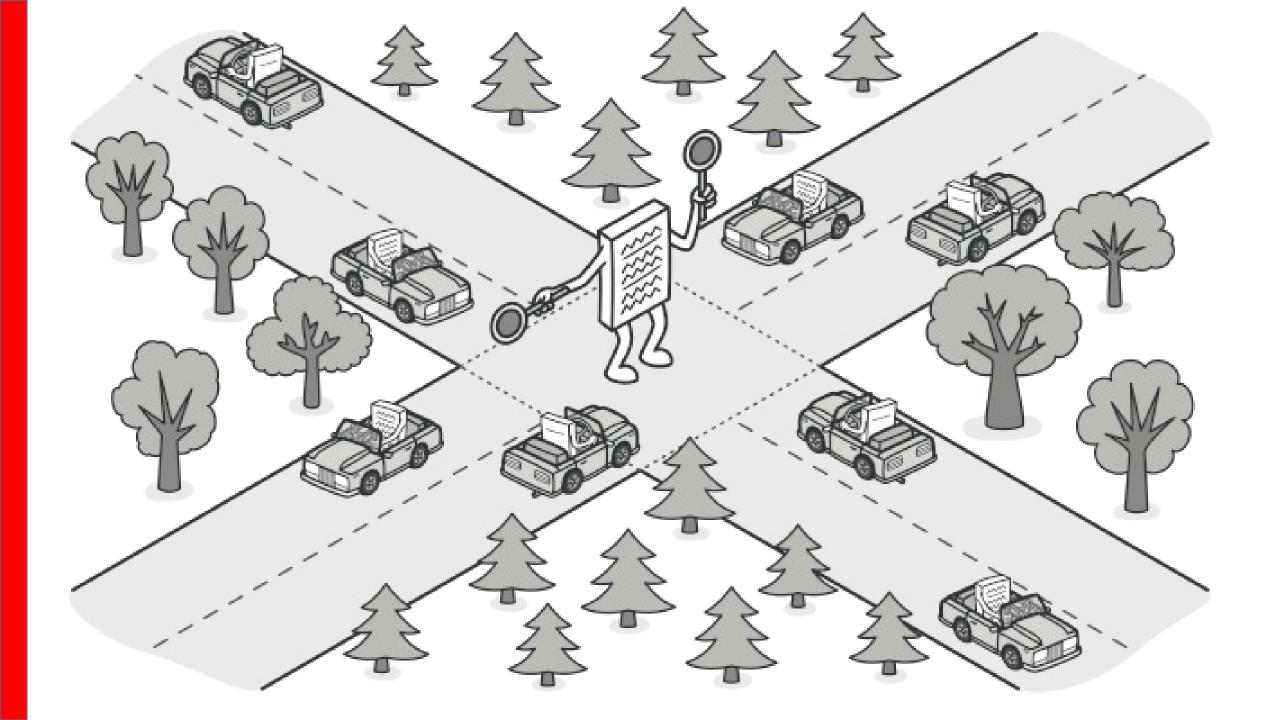
self. mediator = mediator

```
class ComponentDonor(BaseComponent):
  def init (self,isim):
     self.name=isim
  def list(self,offset,limit):
     return self.mediator.crud(self,
"list", offset=offset, limit=limit)
  def create(self,data):
     return self.mediator.crud(self, "create",data=data)
  def update(self,data):
     return self.mediator.crud(self, "update",data=data)
  def delete(self,data):
```

```
def list(self,offset,limit):
  sorgu="select * ... offset "+ str(offset) +" rows fetch first
  return rowsjson(sorgu)
def create(self,data):
  pass
def update(self,data):
  pass
def delete(self,data):
  pass
```

#### Mediator class ConcreteMediator(Mediator): def init (self, donor, hasta): self. component1 = donor self. component1.mediator = self self. component2 = hasta self. component2.mediator = self

```
def crud(self, sender, event, **param):
   if event == "list":
      if sender.name=="donor":
         return self. component1. list(param['offset'],param['limit'])
      if sender.name=="hasta":
         return self. component2. list(param['offset'],param['limit'])
   elif event == "create":
      if sender.name=="donor":
         data=param['data']
         return self. component1. create(data)
      if sender.name=="hasta":
         data=param['data']
         return self. component2. create(data)
```



# Mediator import kanbankasi. Api Mediator as api

```
donorApi=api.ComponentDonor('d
onor')
hastaApi=api.ComponentHasta('ha
```

sta')

```
Mediator
if a=='update':
 data =request.data
 data=json.loads(data)
 return donorApi.update(data)
if a=='delete':
 data =request.data
 data=json.loads(data)
 return donorApi.delete(data)
```

# Teşekkürler

github.com/ mzuvin/kanbagisi