

FOOTMATCH

Daniel Arellano Martínez
Bruno González Llaga
Carlos González Arenas
Diego Monsalves Vázquez
Víctor Manuel Vázquez García
Brian Calatrava Hurtado
Johnsiel Antonio Castaños Hernández
Jose María Cruz Lorite

Fundamentos de Ingeniería del Software para Sistemas Cloud



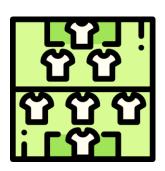
Índice

- Descripción de la aplicación
- Descomposición en microservicios
- Diseño de cada microservicio
- Aspectos relevantes
- Customer agreements
- · Análisis de la capacidad
- Conclusiones

Descripción de la aplicación

Temática

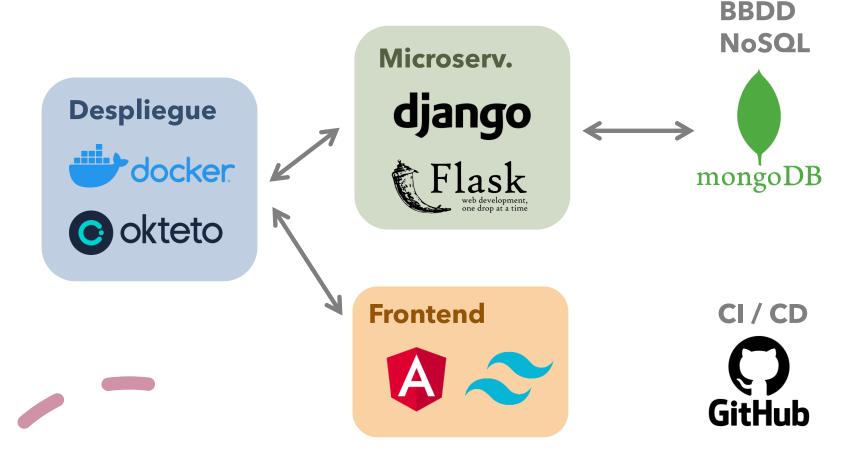






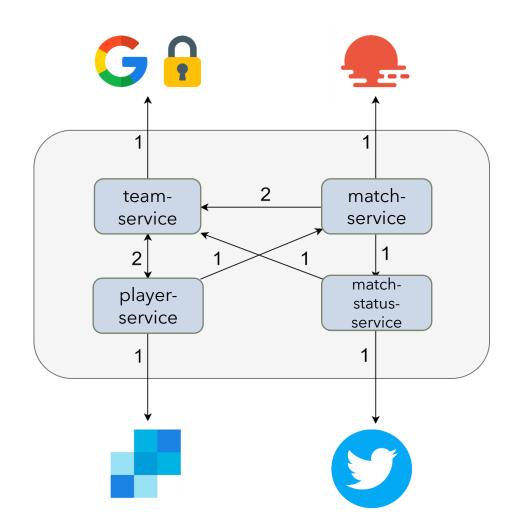
Descripción de la aplicación

Tecnologías



Descomposición en microservicios

footmatch -service

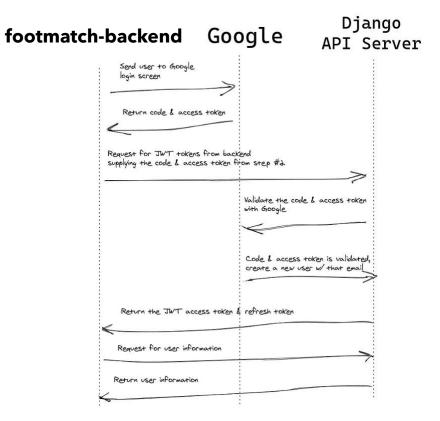




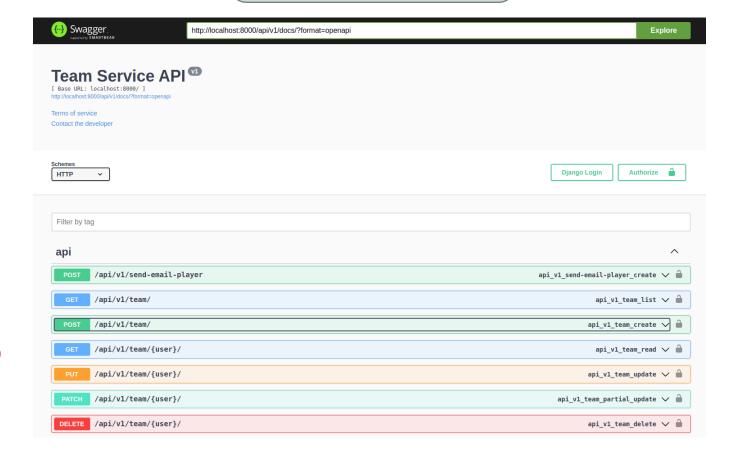




- Auth
- CRUD
- Feature toggles







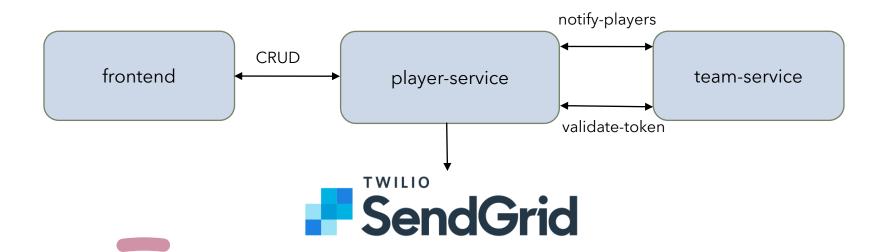


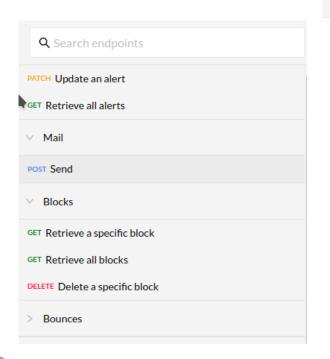




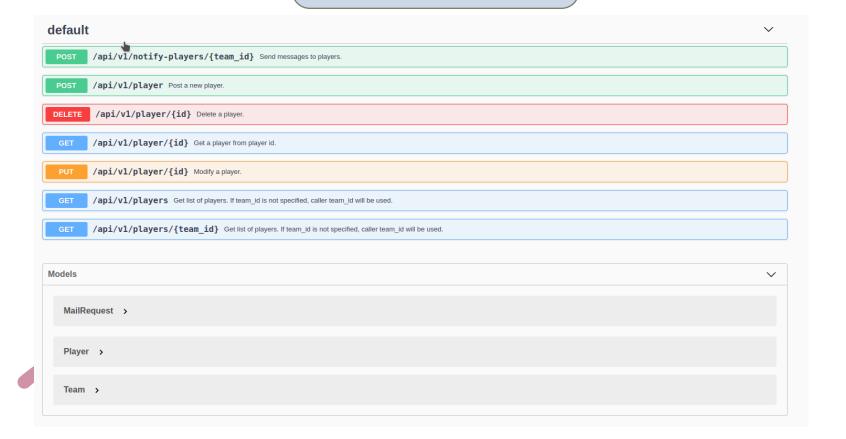
- Email sending
- · CRUD







```
Request Body
Send email payload. For optional payload parameters visit
https://sendgrid.com/docs/API Reference/Web API v3/Mail/index.html#-Request-Body-Parameters
 Example 1
             Schema
Body
          "personalizations": [
                    "to": [
                             "email": "john@example.com"
 8
                    "subject": "Hello, World!"
 9
10
11
12
               "email": "from address@example.com"
13
14
           "content": [
15
16
```



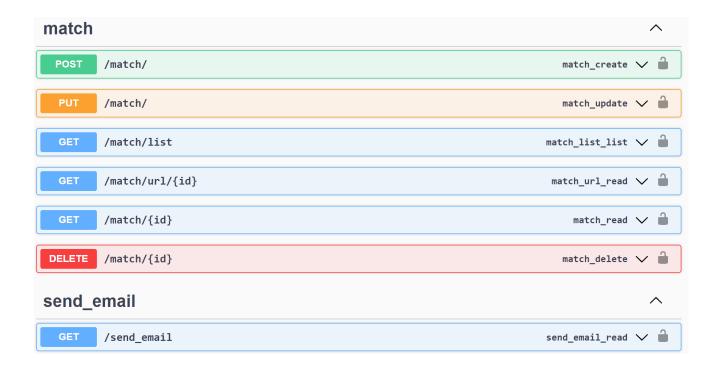
match-service

django

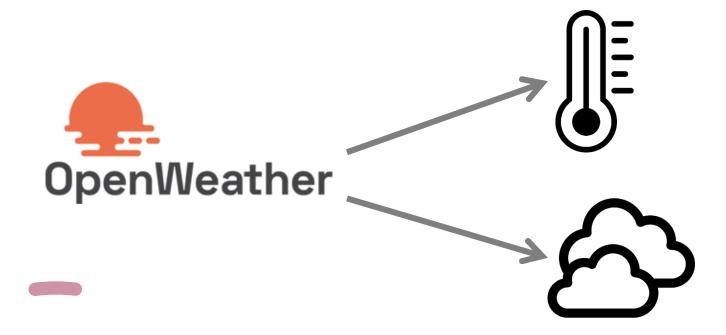
mongo DB_®

- Caché local frontend
- CRUD
- Envío automatizado
- OpenWeather

match-service



match-service



match-service

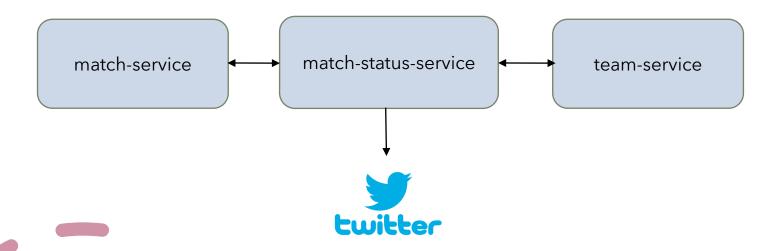








- TweepyPosting tweets
- CRUD
- Feature toggles
- Auth





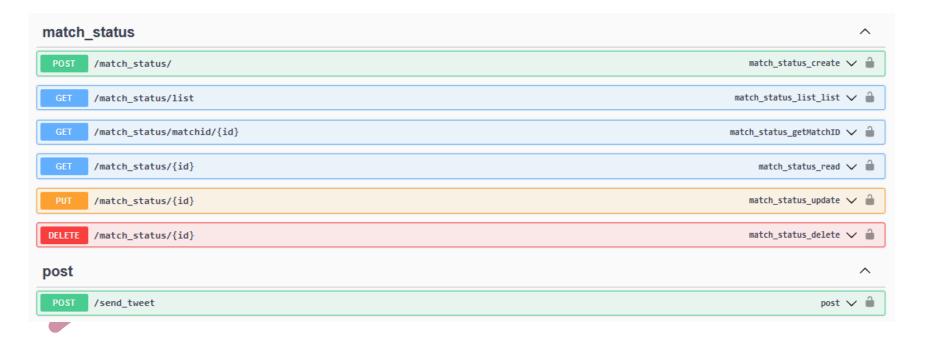


```
class MatchStatus(models.Model):
   # CREAMOS LAS OPCIONES DEL STATUSTYPE
   START = 'STA'
   BREAK = 'BRE'
                                                        class Tweet(models.Model):
   RESUMPTION = 'RES'
                                                            id = models.CharField(primary key=True, max length=24, default=get random string(length=24))
   GOAL = 'GOA'
                                                             minuto = models.IntegerField()
   END = 'END'
                                                            local = models.CharField(max_length=255)
   OTHER = 'OTH'
                                                            visitante = models.CharField(max length=255)
                                                             marcador = models.CharField(max length=255)
   STATUS OPTIONS = (
                                                            info = models.CharField(max length=1500)
       (START, 'Start'),
       (BREAK, 'Break'),
       (RESUMPTION, 'Resumption'),
       (GOAL, 'Goal'),
       (END, 'End'),
       (OTHER, 'Other'),
   id = models.CharField(primary key=True, max length=24, default=get random string(length=24))
   status type = models.CharField(
       max length=3,
       choices=STATUS_OPTIONS,
   matchId = models.CharField(max length=24)
   user id = models.IntegerField()
   info = models.CharField(max length=255)
   date = models.DateTimeField()
   scoreboard = models.CharField(max length=255)
   uidPlayer = models.CharField(max length=255)
```

```
class SendTweet(viewsets.ModelViewSet):
    serializer_class = TweetSerializer

# post tweet
def post(self, request):
    #Extraemos los valores del request
    tweet = request.data

try:
    send_tweet(tweet['minuto'], tweet['local'], tweet['visitante'], tweet['marcador'], tweet['info'])
    return Response(data=None, status=status.HTTP_201_CREATED)
    except:
    return Response(data=None, status=status.HTTP_400_BAD_REQUEST)
```

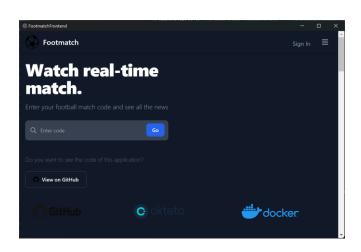


Aspectos relevantes



Aspectos relevantes







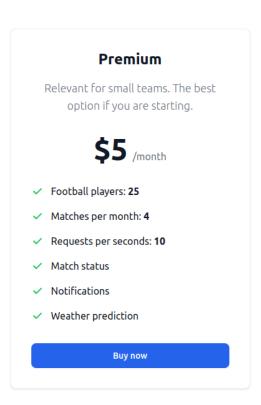
npm run electron

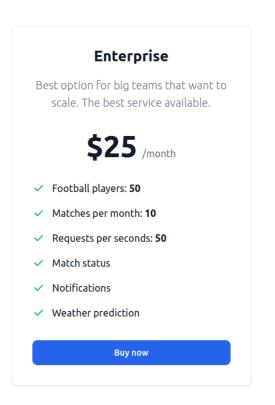
npm run electron-compile-win

Customer agreements

Pricing

Free Best option for personal use & for your next project. Free Free Football players: 16 Matches per month: 2 Requests per seconds: 5 Match status Notifications Weather prediction



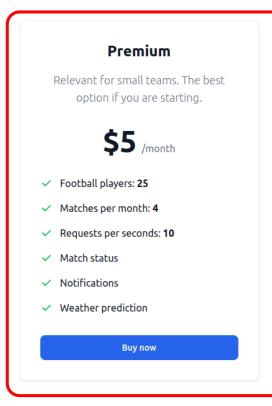


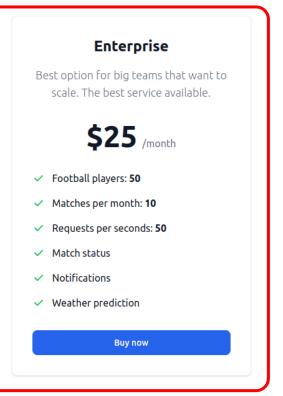
Customer agreements

Pricing

SLA

Free Best option for personal use & for your next project. Free ✓ Football players: 16 Matches per month: 2 Requests per seconds: 5 Match status × Notifications × Weather prediction Start



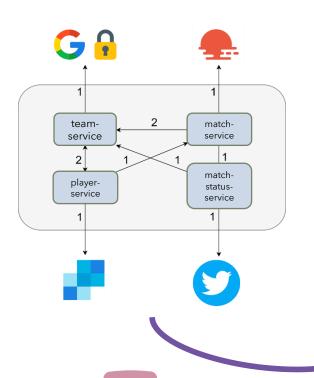


Customer agreements

SLA

Características	Free	Premium	Enterprise
Disponibilidad (tasa acierto por peticiones al mes)	N/A	95/100	99/100
Tipo contacto	N/A	email	sms / email
Tiempo resp.	N/A	3 días	1 día

Análisis de capacidad



API	Petic nes N		Peticione s API / s	Riesgo	Peticio nes / s
SSO	19	Free	10.000	85%	6697
OW	2	Pro / 410€	761	85%	705
TW	1	Free	1.000.00 0	0%	2350
SG	1	Essen. / 34€	896	65%	822

Análisis de capacidad

Plan	Req/max Precio	N° usuarios	
гіан	Req/IIIax Frecio	,	isuarios
Free	5	0	150
Premium	10	5	60
Enterpris			
e	50	25	20

Balance	+ 355,05€
Ingresos	+ 800€
Gastos	- 444€

API	Peticio nes MS	Plan / €	Peticione s API / s	Riesgo	Peticio nes / s
SSO	19	Free	10.000	85%	6697
OW	2	Pro / 410€	761	85%	705
TW	1	Free	1.000.00 0	0%	2350
SG	1	Essen./ 34€	896	65%	822



Conclusión



Preguntas