



# APRESENTAÇÃO

# THM

# DESAFIO

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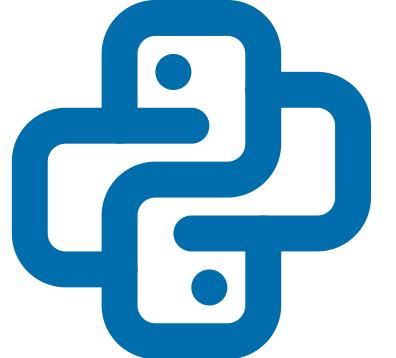
# DESAFIO

O desafio envolve a criação de um sistema que automatiza a coleta de dados de partidas de uma liga de futebol, permitindo a inclusão contínua de informações relevantes, como placares, estatísticas de jogos, dados de árbitros e lesões de jogadores, em um banco de dados SQL. Além disso, uma interface interativa deve ser desenvolvida para expor essas informações de maneira acessível, utilizando boas práticas de programação.

# WEB SCRAPING



**TRANSFERMARKET**



**PYTHON**



**BEAUTIFULSOUP**



# TRANSFERMARKET

LIVE 69 Enter your search term

DISCOVER TRANSFERS & RUMOURS MARKET VALUES COMPETITIONS STATISTICS COMMUNITY GAMING

## Campeonato Brasileiro Série A



BRAZIL  
League level: First Tier  
Reigning champion: Sociedade Esportiva Palmeiras  
Record-holding champions: Sociedade Esportiva Palmeiras 12 time(s)

Number of teams: 20 teams  
Players: 643  
Foreigners: 137 Players 21.3%  
Market value: €2.57m  
Age: 27.4  
Most valuable player: Estêvão €40.00m

€1.65bn Total Market Value

WHO IS 17-YEAR-OLD MASTANTUONO?  
WANTED BY MAN UTD & DUBBED 'NEXT FODEN'

CHECK OUT OUR LATEST VIDEO

OVERVIEW TABLES ▾ TRANSFERS ▾ MARKET VALUES ▾ PLAYERS ▾ CLUBS ▾ INFORMATION & FACTS ▾ HISTORY ▾ NEWS

INFO  
On the competition startpage, the participating teams of one season (selectable in the drop-down menu) are to begin with listed based on the ...  
Filter by season:  
2024 Show

CLUBS - SÉRIE A 2024

Club	Squad ↴	Age ↴	Foreigners ↴	Market value ↴	Total market value ↴
CR Flamengo	29	27.3	8	€7.31m	€212.10m
Sociedade Esportiva Palmeiras	30	26.4	6	€7.00m	€209.85m
Botafogo de Futebol e Regatas	34	28.0	7	€4.00m	€136.10m
São Paulo Futebol Clube	38	27.0	11	€2.78m	€105.55m
Sport Club Corinthians Paulista	33	27.1	9	€3.19m	€105.20m
Clube Atlético Mineiro	34	27.3	9	€3.09m	€105.10m
Grêmio Foot-Ball Porto Alegrense	35	28.0	11	€2.72m	€95.30m

Prepare-se para curtir cada movimento dos seus vídeos. Canva  
Conheça os recursos intuitivos do editor de vídeos do Canva.

Teste grátis agora.

RESPONSIBLE DATA SCOUTS:  
Kaukey

LIVE 69 Enter your search term

DISCOVER TRANSFERS & RUMOURS MARKET VALUES COMPETITIONS STATISTICS COMMUNITY GAMING

Brazil Campeonato Brasileiro Série A Club Player

Advertisement

CHECK THE MOST VALUABLE PLAYERS IN THE WORLD

## CAMPEONATO BRASILEIRO SÉRIE A

32. Matchday | Sat, 11/2/24 | 8:00 PM

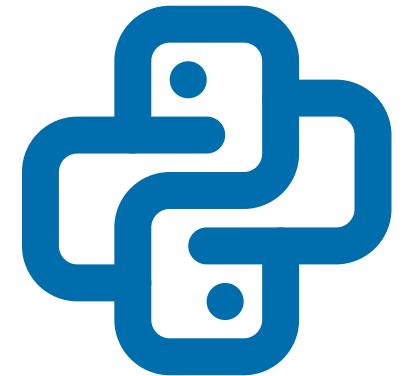
Red Bull Bragantino	Red Bull Bragantino Position: 16	0 : 0 (0:0) Estádio Nabi Abi Chedid Referee: Marcelo de Lima Henrique (RJ)	Cuiabá Esporte Clube (MT) Position: 19
---------------------	-------------------------------------	--	---

WHO IS 17-YEAR-OLD MASTANTUONO?  
WANTED BY MAN UTD & DUBBED 'NEXT FODEN'

CHECK OUT OUR LATEST VIDEO

MATCH SHEET LINE-UPS STATISTICS CLUB COMPARISON MATCHDAY OVERVIEW

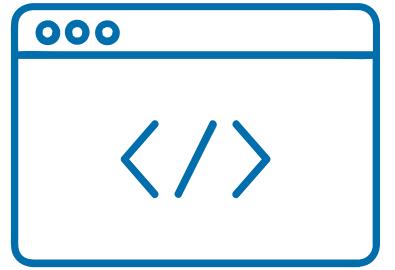
# AUTOMAÇÃO



PYTHON



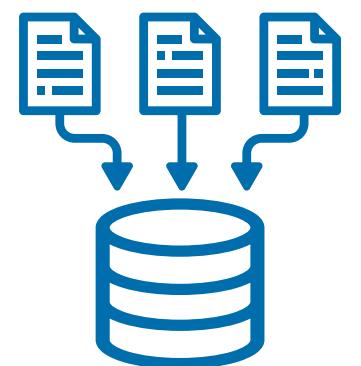
BEAUTIFULSOUP



SCHEDULE



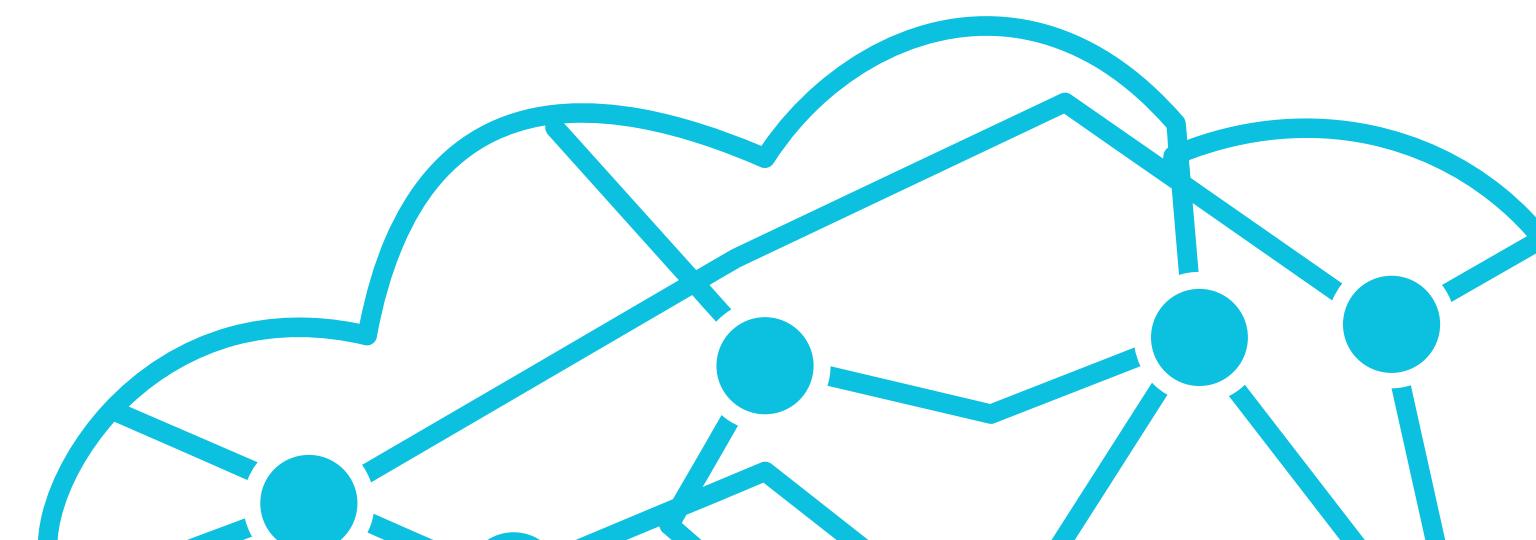
# BANCO DE DADOS



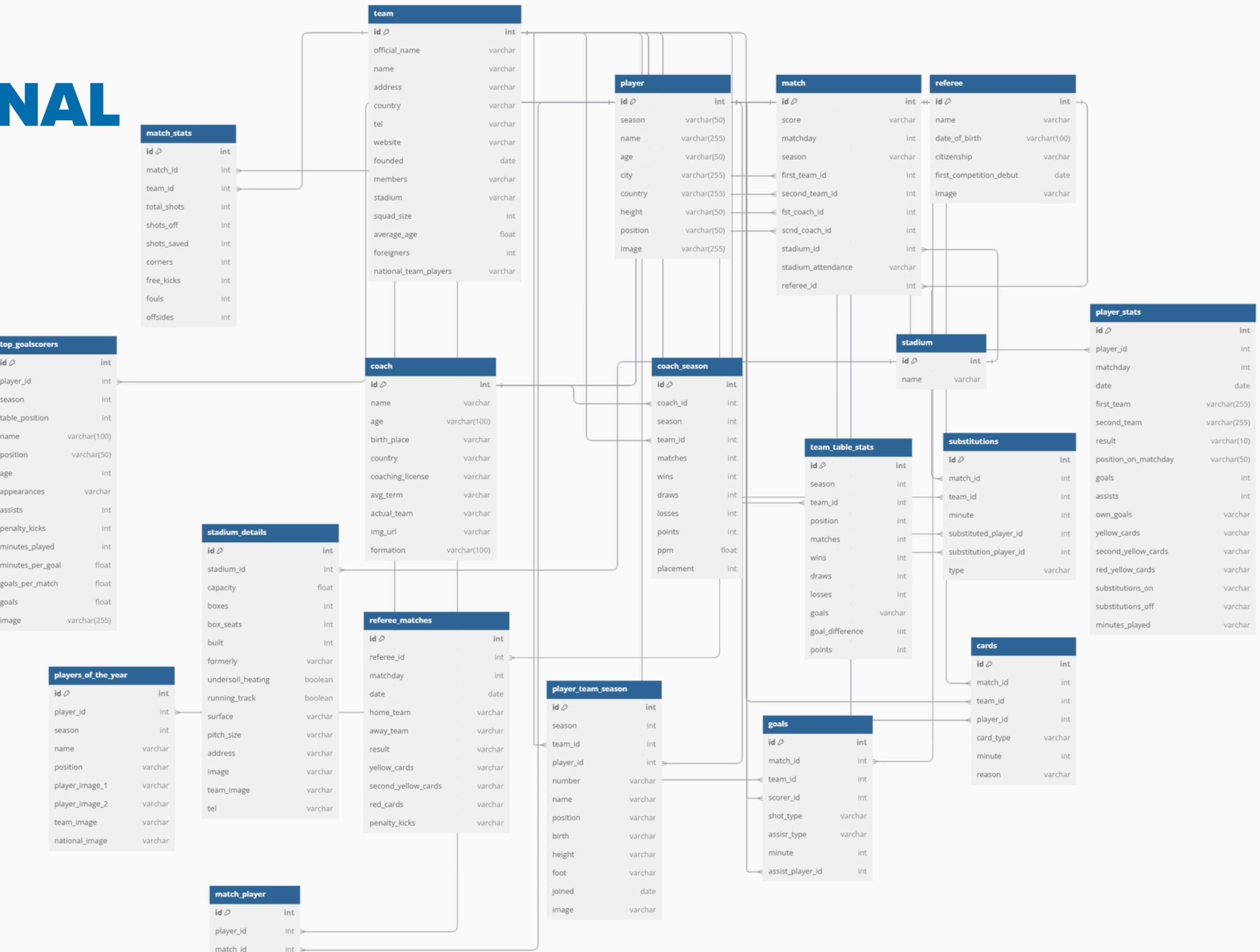
**POSTGRESQL**



**DBDIAGRAM.IO**



# MODELO RELACIONAL



# POSTGRES - DBDIAGRAM

The screenshot shows a PostgreSQL database management interface. The top bar displays the connection information: FootballDataTHM/postgres@PostgreSQL 15. Below the connection bar is a toolbar with various icons for database operations like creating tables, managing schemas, and executing queries. The main area is a query editor titled "Query". The code listed is used to create two tables and add foreign key constraints to a third table:

```
226 ,
227
228 CREATE TABLE "players_of_the_year" (
229     "id" INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
230     "player_id" int,
231     "season" int,
232     "name" varchar,
233     "position" varchar,
234     "player_image_1" varchar,
235     "player_image_2" varchar,
236     "team_image" varchar,
237     "national_image" varchar
238 );
239
240 CREATE TABLE "match_player" (
241     "id" INT GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
242     "player_id" int,
243     "match_id" int
244 );
245
246 ALTER TABLE "coach_season" ADD FOREIGN KEY ("coach_id") REFERENCES "coach" ("id");
247
248 ALTER TABLE "coach_season" ADD FOREIGN KEY ("team_id") REFERENCES "team" ("id");
249
```

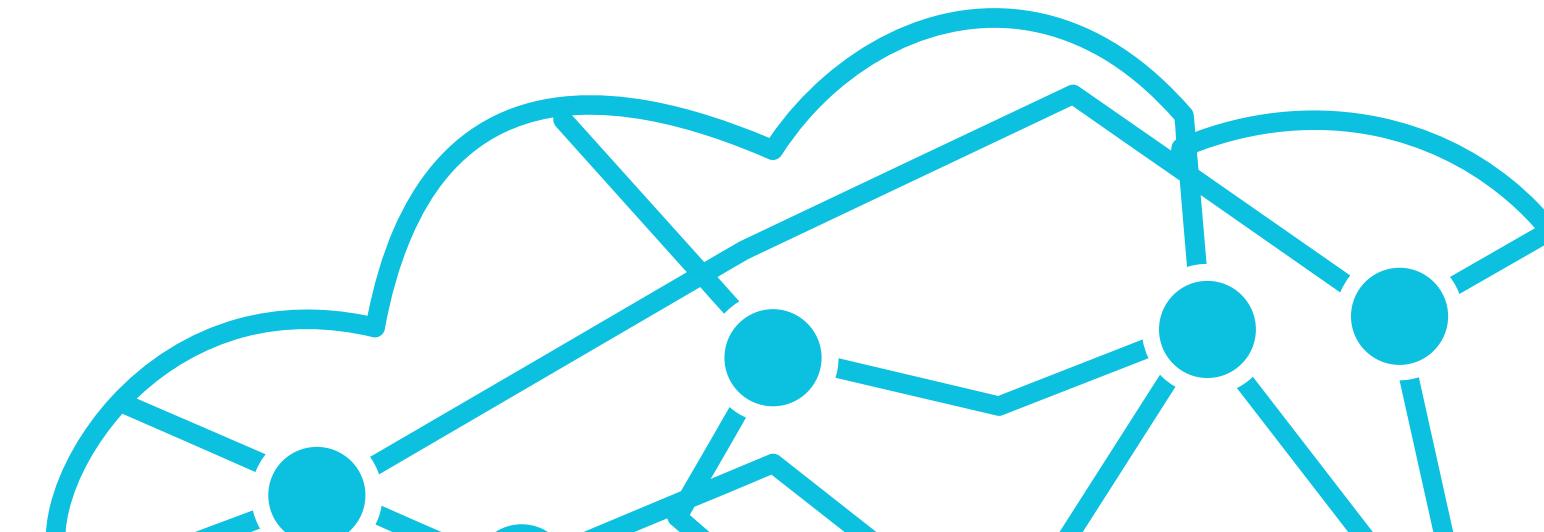
# BACKEND



**NODE.JS**



**EXPRESS**



# API

GET <http://localhost:5000/player-of-the-year/2020> Send

Params Authorization Headers (6) **Body** • Pre-request Script Tests Settings Cookies </>

none  form-data  x-www-form-urlencoded  raw  binary  GraphQL

Key	Value	Description	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (8) Test Results Status: 200 OK Time: 8 ms Size: 694 B Save as example ...

Pretty Raw Preview Visualize JSON

```
1 {  
2   "id": 1,  
3   "player_id": 403315,  
4   "season": 2020,  
5   "name": "Claudinho",  
6   "position": "Attacking Midfield",  
7   "player_image_1": "https://tmssl.akamaized.net//images/foto/galerie/claudinho-zenit-1681212011-105256.jpg?lm=1681212019",  
8   "player_image_2": "https://img.a.transfermarkt.technology/portrait/small/403315-1721723505.png?lm=1",  
9   "team_image": "8793",  
10  "national_image": "https://tmssl.akamaized.net//images/flagge/verysmall/26.png?lm=1520611569"  
11 }
```

# API

GET <http://localhost:5000/matches/3546464/stats> Send

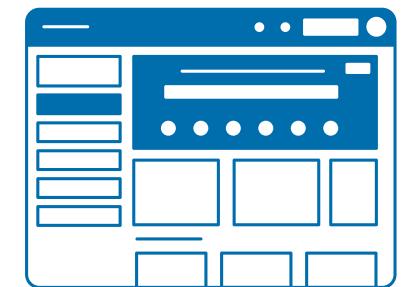
Params Authorization Headers (6) Body ● Pre-request Script Tests Settings Cookies

Body Cookies Headers (8) Test Results Status: 200 OK Time: 180 ms Size: 1.11 KB Save as example ⋮

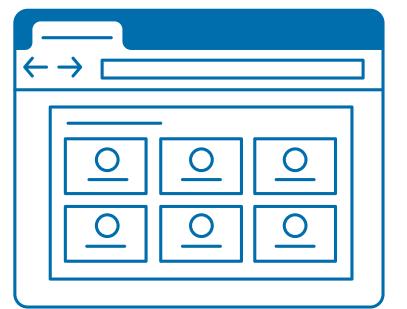
Pretty Raw Preview Visualize JSON ↻

```
1 [  
2   {  
3     "id": 755,  
4     "match_id": 3546464,  
5     "team_id": 614,  
6     "total_shots": 14,  
7     "shots_off": 3,  
8     "shots_saved": 4,  
9     "corners": 3,  
10    "free_kicks": 21,  
11    "fouls": 25,  
12    "offsides": 0  
13  },  
14  {  
15    "id": 756,  
16    "match_id": 3546464,  
17    "team_id": 1023,  
18    "total_shots": 12,  
19    "shots_off": 6,  
20    "shots_saved": 8,  
21    "corners": 4,  
22    "free_kicks": 25,  
23    "fouls": 21,  
24    "offsides": 3  
25  },  
26  {  
27    "id": 2531,
```

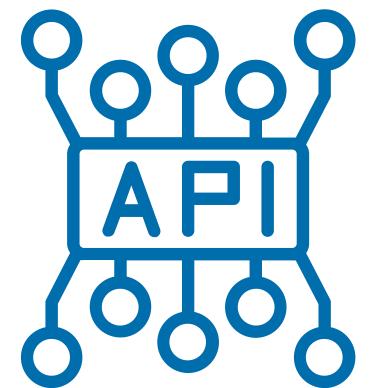
# FRONTEND



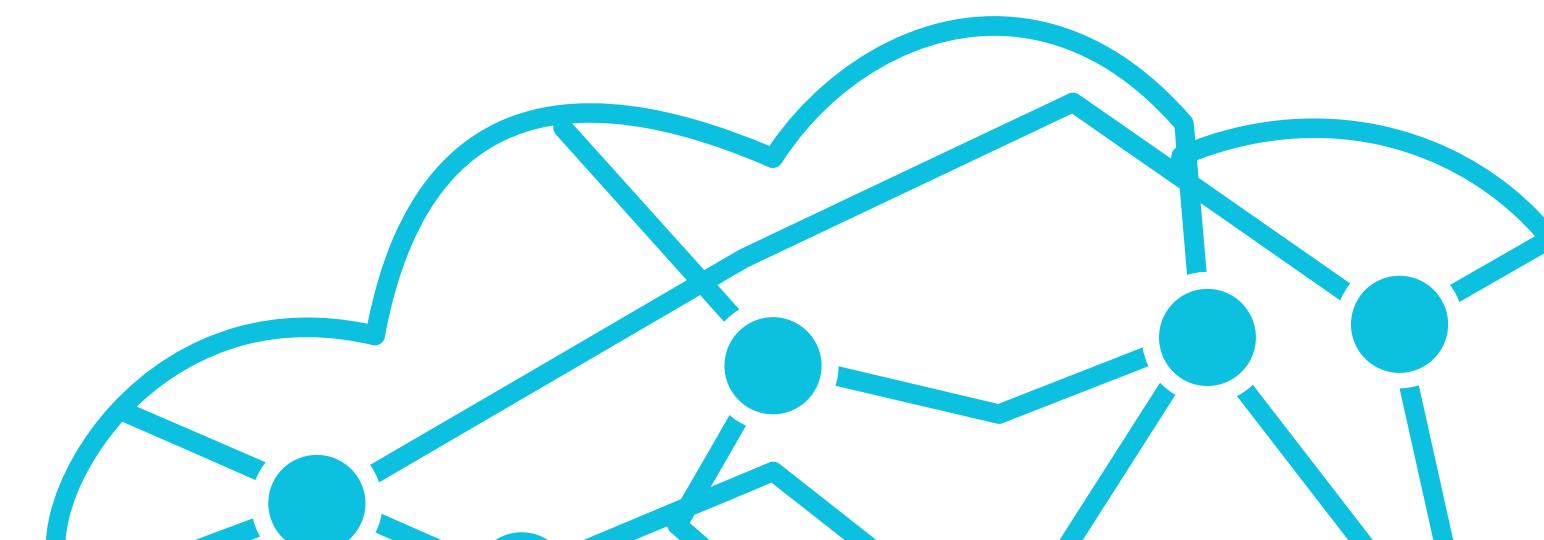
**REACT.JS**



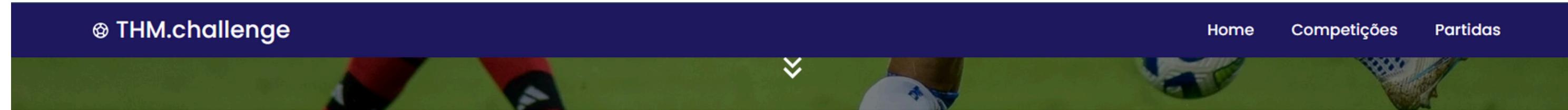
**MUI MATERIAL**



**AXIOS**



# INTERFACE

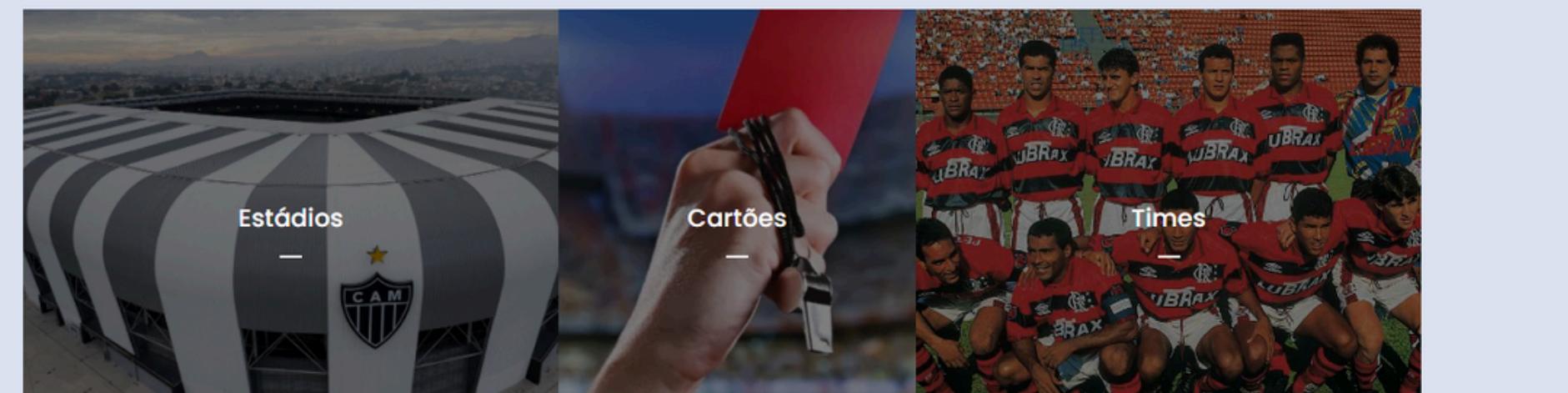


## Nossos dados

Temporadas	Jogadores	Partidas	Estádios	Árbitros	Times	Técnicos
4	1693	961	36	62	26	101

## Memórias Inesquecíveis do Futebol

Desfrute de momentos marcantes que definiram a história do futebol. Desde grandes jogos a inesquecíveis campeonatos, aqui está o melhor do esporte.





# CONTATO

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