

Introdução às tecnologias Web - ITW

Aula 11 – Apresentação do trabalho prático final

Pratica 11, 12 – Desenvolvimento do trabalho prático final

Sumário

Apresentação do trabalho prático final

O que desenvolver?

Onde ir buscar a informação?

Resultado final esperado



Trabalho prático final

O que desenvolver?

Pretende-se com este trabalho prático juntar as diversas aprendizagens feitas ao longo do semestre.

Para tal, pretende-se que seja desenvolvida um site web que integre a informação dos diversos tipos (ou) uma aplicação para dispositivos móveis

Trabalho prático final

Onde ir buscar a informação?

Para o trabalho prático final deverão ser utilizados **apenas** os serviços disponibilizados no endereço <http://192.168.160.28/football>

Este servidor está disponível apenas na rede da Universidade de Aveiro

Home Page Joaquim

192.168.160.28/football/ 388

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Home API

The ultimate Soccer database

What you get:

- +25,000 matches
- +10,000 players
- 11 European Countries with their lead championship
- Seasons 2008 to 2016
- Players and Teams' attributes* sourced from EA Sports' FIFA video game series, including the weekly updates
- Team line up with squad formation (X, Y coordinates)
- Betting odds from up to 10 providers
- Detailed match events (goal types, possession, corner, cross, fouls, cards etc...) for +10,000 matches

Additional sources

Database source: European Soccer Database

Images Source: <https://sofifa.com>
Team Example: Sporting - <https://sofifa.com/team/237>
<https://cdn.sofifa.org/18/teams/237.png>



Markers: Season | TeamId
Rui Patrício - <https://sofifa.com/player/178005>
<https://cdn.sofifa.org/18/players/178005.png>



Marker: PlayerId

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ASP.NET Web API Help Page

192.168.160.28/football/Help

Home API

ASP.NET Web API Help Page

Introduction

Provide a general description of your APIs here.

teams

List of methods for the management of football teams

API	Description
GET api/teams/search?srcStr={srcStr}	Get a list of Teams with a name passed as input parameter
GET api/teams/leagueTeams/{id}	Get a list of league Teams
GET api/teams/seasons/{id}	Get a List of matches (grouped by season) to a specific Team
GET api/teams/seasons	Get a list of match seasons
GET api/teams/teamsCount	Get the number of teams in the database
GET api/teams	Get a list of teams(first 20)
GET api/teams?page={page}&pageSize={pageSize}	Get a paged list of teams
GET api/teams/{id}	Get info about a Team

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192.168.160.28/football/Help

Home API

players

List of methods for the management of football players

API	Description
GET api/players/playersCount	Get the number of players in the database
GET api/players/search?srcStr={srcStr}	Get a list of Players with a name passed as input parameter
GET api/players	Get a list of players (first 20)
GET api/players?page={page}&pageSize={pageSize}	Get a paged list of players
GET api/players/{id}	Get info about a player

countries

List of methods for the management of countries

API	Description
GET api/countries	Get the list of countries with matches in database
GET api/countries/{id}	Get info about a country

leagues

List of methods for the management of football leagues

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Home API

GET api/countries Get the list of countries with matches in database

GET api/countries/{id} Get info about a country

leagues

List of methods for the management of football leagues

API	Description
GET api/leagues	Get leagues names and countries
GET api/leagues/{id}	Get info about a league

seasons

API	Description
GET api/seasons	Get a List of seasons

matches

API	Description
GET api/matches	Get a list of the top(100) matches
GET api/matches/{id}	Get matches for a Team in a Season

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[Belgium](#)
 [England](#)
 [France](#)
 [Germany](#)
 [Italy](#)
 [Netherlands](#)
 [Poland](#)
 [Portugal](#)
 [Scotland](#)
 [Spain](#)
 [Switzerland](#)

This page aims to demonstrate the use of the football web API for countries and the interconnection with other entities.
Called method(s):
• <http://localhost:54926/api/countries>

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```
<section>
  <div class="page-header">
    <h2 data-bind="text:className"></h2>
  </div>

  <!-- ko foreach: countries -->
  <div><i class="fa fa-map-marker"></i> <a data-bind="html:name, attr:{ href: '#countries/'+id, title: name}"></a></div>
  <!-- /ko -->

  <div class="clearfix"></div>
  <!-- ko if:error -->
  <div class="bs-callout bs-callout-danger" data-bind="html:error"></div>
  <!-- /ko -->
  <div class="bs-callout bs-callout-info" data-bind="html:description"></div>
</section>
```

```

define(['knockout'], function (ko) {
    var vm = function () {
        console.log('ViewModel initiated...')
        //---Variáveis locais
        var self = this;
        var baseUri = 'http://192.168.160.28/football/api/countries';
        self.className = 'Countries';
        self.description = 'This page aims to demonstrate the use of the football web API for countries and the interconnection with other entities.<br>Called method(s): <ul><li>' +
baseUri + '</li></ul>';
        self.error = ko.observable();
        self.countries = ko.observableArray([]);
        //--- Internal functions
        function ajaxHelper(uri, method, data) {
            self.error(''); // Clear error message
            return $.ajax({
                type: method,
                url: uri,
                dataType: 'json',
                contentType: 'application/json',
                data: data ? JSON.stringify(data) : null,
                error: function (jqXHR, textStatus, errorThrown) {
                    console.log("AJAX Call[" + uri + "] Fail...");
                    self.error(errorThrown);
                }
            })
        }
        //--- External functions (accessible outside)
        getCountry = function () {
            console.log('CALL: getCountry...')
            ajaxHelper(baseUri, 'GET').done(function (data) {
                self.countries(data);
            });
        };
        //---- initial call
        getCountry();
    };
    return vm;
});

```

The screenshot shows a web browser window with the URL <http://localhost:55542/index.html#/leagues>. The browser interface includes standard controls like back, forward, search, and refresh. Below the address bar, there's a navigation bar with three tabs: 'Countries' (with a soccer ball icon), 'Leagues' (selected, with a star icon), and 'Teams' (with a team bus icon). The main content area is titled 'Leagues' and lists the following football leagues:

- Belgium Jupiler League
- England Premier League
- France Ligue 1
- Germany 1. Bundesliga
- Italy Serie A
- Netherlands Eredivisie
- Poland Ekstraklasa
- Portugal Liga ZON Sagres
- Scotland Premier League
- Spain LIGA BBVA
- Switzerland Super League

A callout box contains the following text:

This page aims to demonstrate the use of the football web API for leagues and the interconnection with other entities.
Called method(s):

- <http://localhost:54926/api/leagues>

At the bottom of the page, there's footer text: '© jsp Euro Football Interface - Version 1.0' and 'Universidade de Aveiro'. On the far right, there's a large, light blue '12'.

The screenshot shows a web browser window with the URL <http://localhost:55542/index.html#/leagues/17642>. The page title is "Leagues | Euro Football Inter...". The main content is titled "League Details" for "Portugal Liga ZON Sagres". It displays the following information:

Name	Portugal Liga ZON Sagres
Country	Portugal
Seasons	8
Matches	2052

A "Back to List" button is visible. Below this, a section titled "League Teams [29]" lists the following teams with their acronyms:

Name	Acronym
Académica de Coimbra	ACA
Amadora	AMA
Boavista FC	BOA
CD Nacional	NAC
CF Os Belenenses	BEL
CS Marítimo	MAR
Estoril Praia	EST
FC Arouca	ARO

At the bottom, it says "© jsp Euro Football Interface - Version 1.0" and "Universidade de Aveiro".

http://localhost:55542/index.html#teams

Teams | Euro Football Inter... ×

Countries Leagues Teams

Search Teams

sporting

Teams Found: [4]

Name	Acronym	Country
Real Sporting de Gijón	SPG	Spain
Sporting Charleroi	CHA	Belgium
Sporting CP	SCP	Portugal
Sporting Lokeren	LOK	Belgium

This page aims to demonstrate the use of the football web API for teams and the interconnection with other entities.
Called method(s):

- http://localhost:54926/api/teams
- http://localhost:54926/api/teams/search?srcStr=???

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4

http://localhost:55542/index.html#teams/9768

Teams | Euro Football Interf... □ E

– □ ×

Pesquisar...

– □ ×

Home Star Gear Smile

Sporting CP [SCP]

Team Seasons

2015/2016 2014/2015 2013/2014 2012/2013 2011/2012 2010/2011 2009/2010 2008/2009

2015/2016 Season Kits

Home Kit Away Kit Third Kit Goalkeeper Kit

2015/2016 Team Attributes

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http://localhost:55542/index.html#teams/9768

Pesquisar...

Teams | Euro Football Interface

Countries Leagues Teams

Home Kit Away Kit Third Kit Goalkeeper Kit

2015/2016 Team Attributes

Build Up Play

Speed	Balanced - 47%
Dribbling	Normal - 41%
Passing	Mixed - 54%

Positioning Organised

Chance Creation

Passing	Normal - 54%
Crossing	Normal - 63%
Shooting	Normal - 64%

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http://localhost:55542/index.html#teams/9768

Teams | Euro Football Interf... □ E

Countries Leagues Teams

Defender Line Cover

2015/2016 Season Matches [34]

Stage		Home	Away	Match Date		
1	Tondela		1 - 2	 Sporting CP	2015-08-14	
2	Sporting CP		1 - 1	 FC Paços de Ferreira	2015-08-22	
3	Académica de Coimbra		1 - 3	 Sporting CP	2015-08-30	
4	Rio Ave FC		1 - 2	 Sporting CP	2015-09-13	
5	Sporting CP		1 - 0	 CD Nacional	2015-09-21	
6	Boavista FC		0 - 0	 Sporting CP	2015-09-26	
7	Sporting CP		5 - 1	 Vitória Guimarães	2015-10-04	
8	SL Benfica		0 - 3	 Sporting CP	2015-10-25	
9	Sporting CP		1 - 0	 Estoril Praia	2015-10-31	
10	FC Arouca		0 - 1	 Sporting CP	2015-11-08	
11	Sporting CP		1 - 0	 CF Os Belenenses	2015-11-30	

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http://localhost:55542/index.html#matches/2015874

Matches | Euro Football Inte... □ 🔍

Countries Leagues Teams

SL Benfica 0 - 3 Sporting CP

Match date: 2015-10-25

The image shows a soccer match interface. At the top, there are navigation icons (back, forward, search, etc.) and a URL bar. Below that is a header with 'Matches | Euro Football Inte...' and a logo. A navigation menu includes 'Countries', 'Leagues', and 'Teams'. The main content area displays two team lineups on a green pitch. SL Benfica's lineup (left) includes: Raul Jimenez, Jonas, Goncalo Gue..., Andre Almeida, Andreas Sam..., Nicolas Gaitan, Eliseu, Jardel, Luisao, Silvio, and Julio Cesar. Sporting CP's lineup (right) includes: Islam Slimani, Teofilo Gutie..., Bryan Ruiz, Adrien Silva, William Carv..., Joao Mario, Jefferson Na..., Naldo, Paulo Oliveira, Joao Pereira, and Rui Patrício.

18

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Pesquisar...

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Cereja no topo do bolo

(mas um bolo também se come sem cerejas...)

Para quem pretender, poderá gerar uma aplicação para dispositivos móveis, tendo por base a ITW-APP

Esta aplicação deverá ser “responsiva” para, pelo menos, dois tipos de dispositivos: telemóveis e tablets

Será fortemente valorizada a criatividade e
a imaginação.

Boa sorte e bom trabalho! Mão à obra.