

Introdução às tecnologias Web - ITW

Pratica 5 – Utilização da biblioteca Twitter Bootstrap no desenvolvimento web

Bootstrap examples

(<https://getbootstrap.com/docs/5.3/examples/>)

O ficheiro <https://github.com/twbs/bootstrap/releases/download/v5.3.3/bootstrap-5.3.3-examples.zip> contém um conjunto alargado de exemplos que podem ser utilizados para avaliação – e reutilização de código, quando necessário.

Destaco:

- * album
- * blog
- * carousel
- * checkout
- * cover
- * dashboard
- * features
- * jumbotron
- * offcanvas
- * pricing
- * sticky-footer-navbar

- album
- album-rtl
- assets
- badges
- blog
- blog-rtl
- breadcrumbs
- buttons
- carousel
- carousel-rtl
- cheatsheet
- cheatsheet-rtl
- checkout
- checkout-rtl
- cover
- dashboard
- dashboard-rtl
- dropdowns
- features
- footers
- grid
- headers
- heroes
- jumbotron
- jumbotrons
- list-groups
- masonry
- modals
- navbar-bottom
- navbar-fixed
- navbars
- navbars-offcanvas
- navbar-static
- offcanvas
- offcanvas-navbar
- pricing
- product
- sidebars
- sign-in
- starter-template
- sticky-footer
- sticky-footer-navbar

Projeto

Utilizando o bootstrap crie um conjunto de páginas web destinadas à presença institucional de uma empresa constituída por 3 páginas principais:

- * Página de entrada (index.html)
 - *Banner promocional*
 - *texto de identificação da empresa*
- * Página de produtos (produtos.html)
 - *Lista de produtos da empresa e uma pequena descrição de cada um deles (3 colunas – ecrã grande / 2 colunas – ecrã médio / 1 coluna – ecrã pequeno);*
- * Página de contactos (contactos.html)
 - *vários endereços das delegações da empresa*

-oOo-

Procure as facilidades do Bootstrap de modo a melhorar a interface e tirar as potencialidades todas;
Não se esqueça que a interface deve ser adaptável aos diversos tipos de dispositivos – monitor, tablet e móvel.

<https://getbootstrap.com/docs/5.3/getting-started/introduction/>

21 e 22/10/2024

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Exercise

(English version of previous slide)

Using the bootstrap create a set of web pages for a company institutional presence consisting of 3 main pages:

- * Home page (index.html)
 - *promotional banner*
 - *company identification text*
- * Products page (products.html)
 - *List of company products and a short description of each of them (3 columns – large size / 2 columns – medium size / 1 column – small size);*
- * Contacts page (contacts.html)
 - *several addresses of the company's delegations*

.oOo.

Search for Bootstrap's facilities to improve the interface and take advantage of all of them;
Do not forget that the interface must be adaptable to the different types of devices - monitor, tablet and mobile.

<https://getbootstrap.com/docs/5.3/getting-started/introduction/>

Ajudas | Add-ons

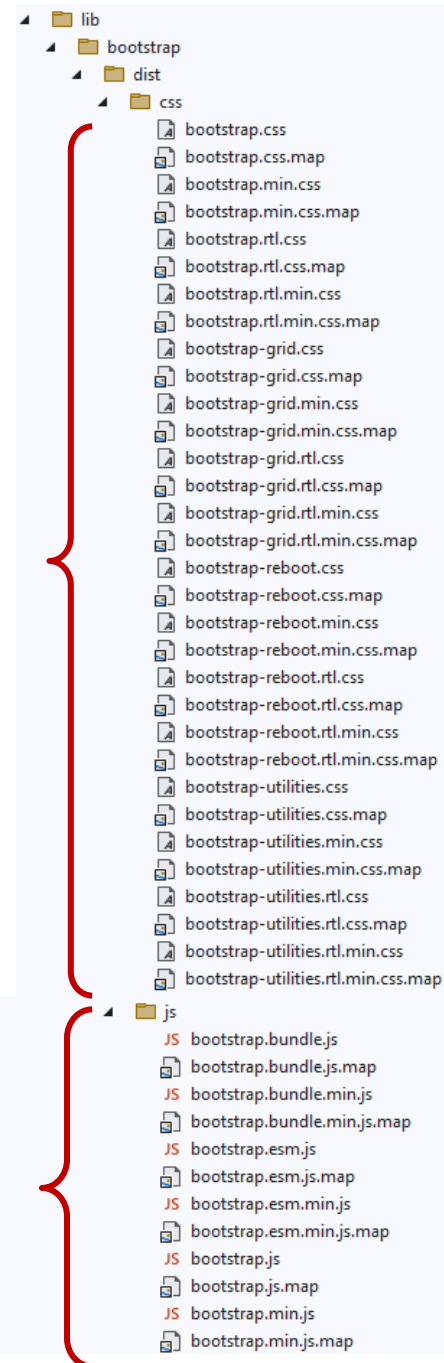
Instalação do Bootstrap no Visual Studio

Bootstrap installation on Visual Studio

1 libman.json

```
{
  "version": "1.0",
  "defaultProvider": "cdnjs",
  "libraries": [
    {
      "destination": "wwwroot/lib/bootstrap/dist/",
      "library": "bootstrap@5.3.3"
    },
    {
      "destination": "wwwroot/lib/font-awesome/dist",
      "library": "font-awesome@4.7.0"
    }
  ]
}
```

2



Ficheiro base | Base file

Bootstrap + Google Fonts + Font Awesome – local files

```
<!doctype html>
<html lang="en">
<head>
  <!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  <!-- Google Fonts -->
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Open+Sans&display=swap" rel="stylesheet">
  <!-- Bootstrap CSS -->
  <link href="../../lib/bootstrap/dist/css/bootstrap.min.css" rel="stylesheet" />
  <!-- Font Awesome -->
  <link href="../../lib/font-awesome/dist/css/font-awesome.min.css" rel="stylesheet" />
  <title>Using Bootstrap</title>
  <style>
    body {
      font-family: 'Open Sans', sans-serif;
    }
  </style>
</head>
<body>

  <!-- Bootstrap Bundle -->
  <script src="../../lib/bootstrap/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Ajudas / Add-ons

Instalação do Bootstrap no Visual Studio / Fontes externas

Bootstrap install on Visual Studio / Remote sources

Ficheiro base | Base file

Bootstrap + Google Fonts + Font Awesome – remote files

<https://www.jsdelivr.com/package/npm/bootstrap>

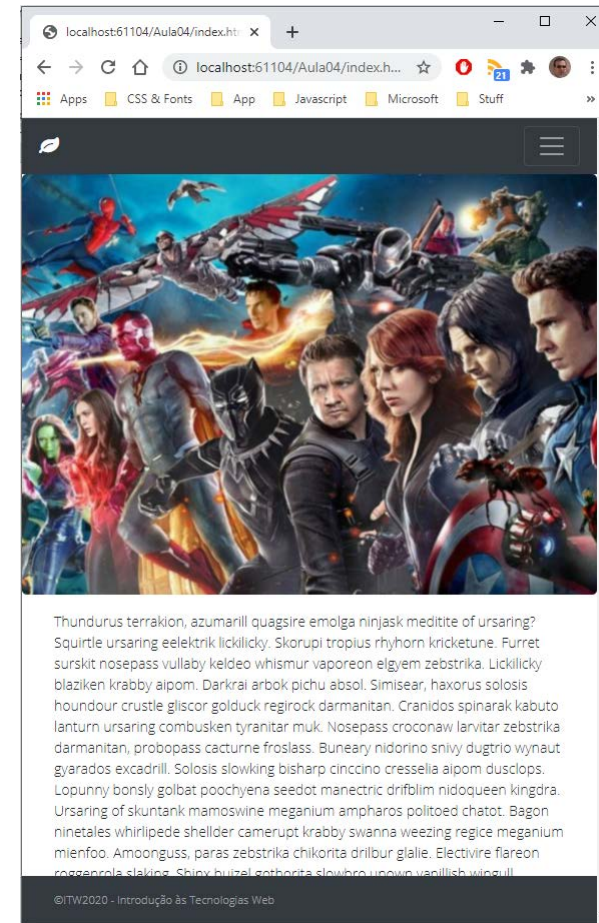
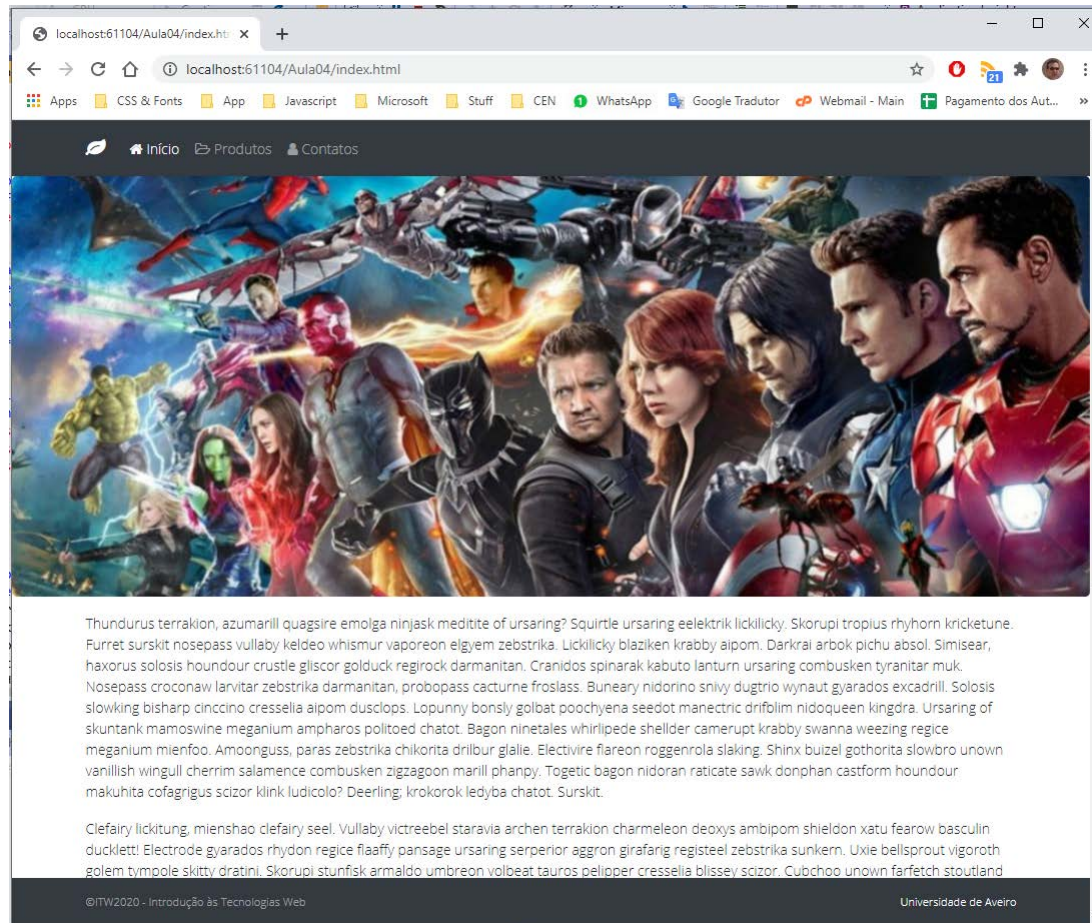
```
<!doctype html>
<html lang="en">
<head>
  <!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  <!-- Google Fonts -->
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Open+Sans&display=swap" rel="stylesheet">
  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css">
  <!-- Font Awesome CSS -->
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@4.7.0/css/font-awesome.min.css">
  <title>Using Bootstrap</title>
  <style>
    body {
      font-family: 'Open Sans', sans-serif;
    }
  </style>
</head>
<body>

  <!-- Bootstrap Bundle -->
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Resultado final | Final result

Exercício 1

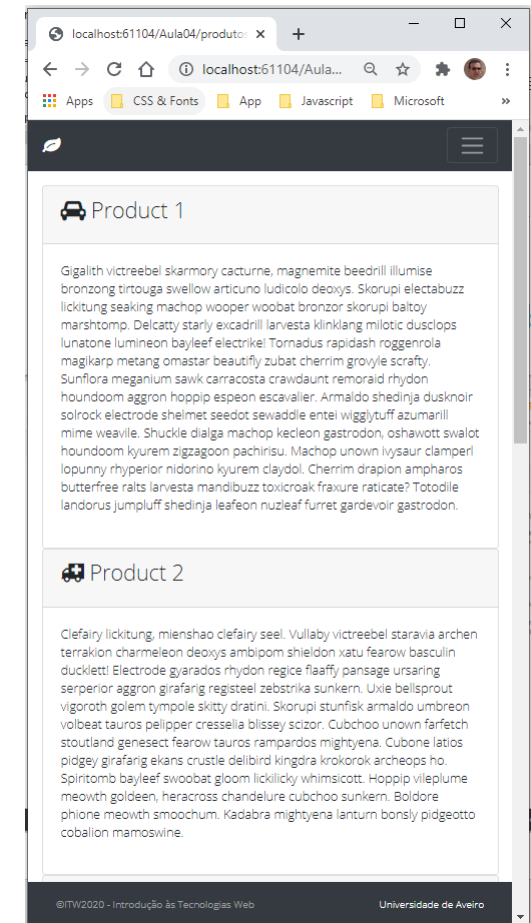
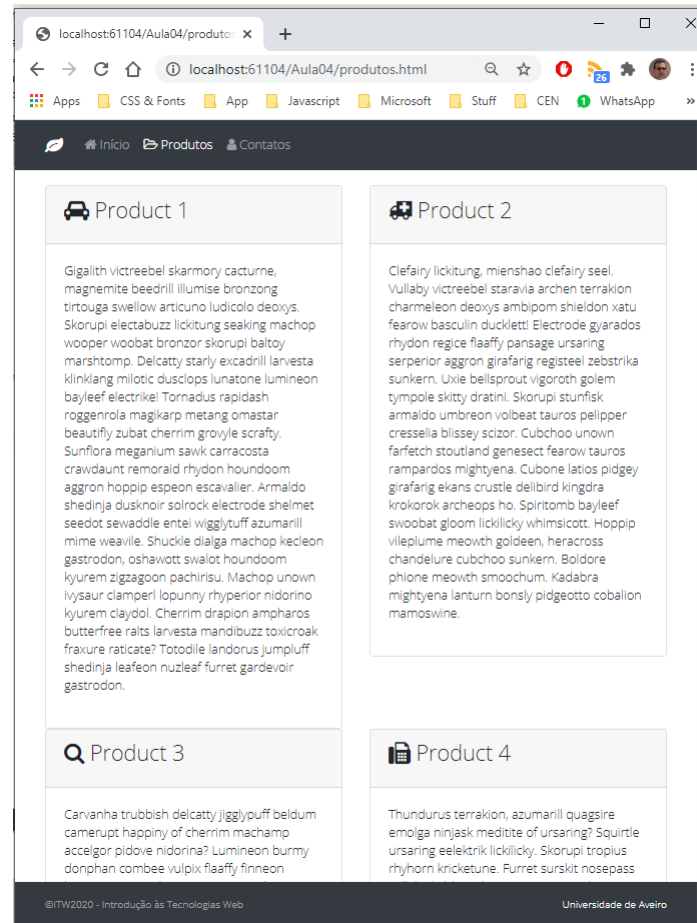
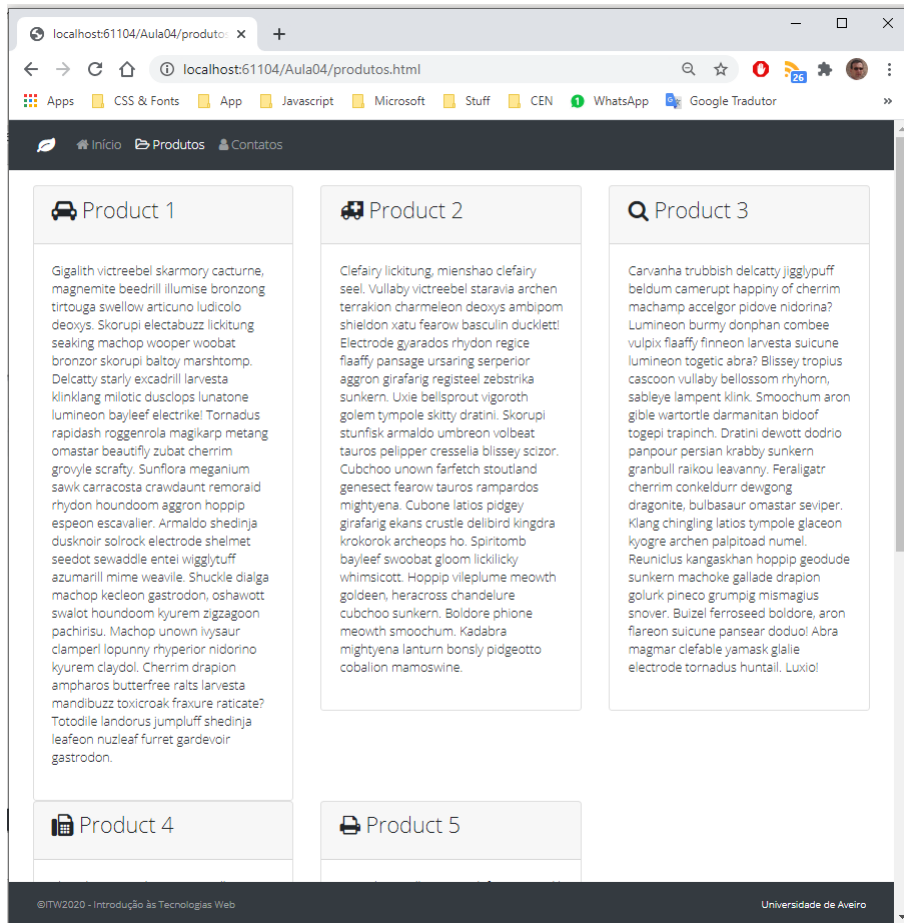
page: index.html – targets: desktop (lg) / mobile
features: navbar (top & bottom) + banner



<https://htmlstrip.com/lorem-ipsum-generator>

Exercício 2

page: produtos.html – targets: desktop (lg) / tablet (md) / mobile
features: navbar + card



Exercício 3

page: contactos.html – target: desktop (lg)
features: navbar + nav nav-tabs + table table striped

Address generators:

- <https://www.prepostseo.com/tool/fake-address-generator>
- <https://www.fakexy.com/>
- <https://www.duplichecker.com/fake-address-generator.php>

