



Академија техничко-уметничких струковних студија Београд
Одсек Висока школа за информационе и комуникационе технологије
Смер Интернет технологије

ДОКУМЕНТАЦИЈА

<https://stefanmarict.github.io/apollo.github.io/>

Предмет: Web programiranje 2

Назив сајта: Apollo pefrumes

Студент:

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1. Увод

1.1. Коришћене технологије:

- 1) HTML, CSS
- 2) JavaScript
- 3) jQuery
- 4) JSON
- 5) AJAX

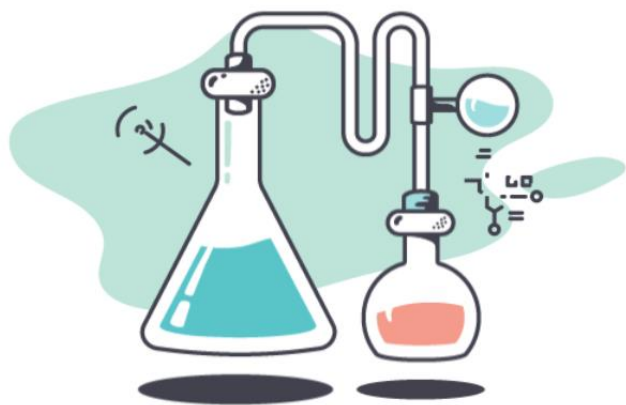
За израду сајта коришћени су Notepad++ и Visual studio code. Статички део сајта је урађен самостално без коришћења готових сајтова у виду template.

1.2. Опис функционалности

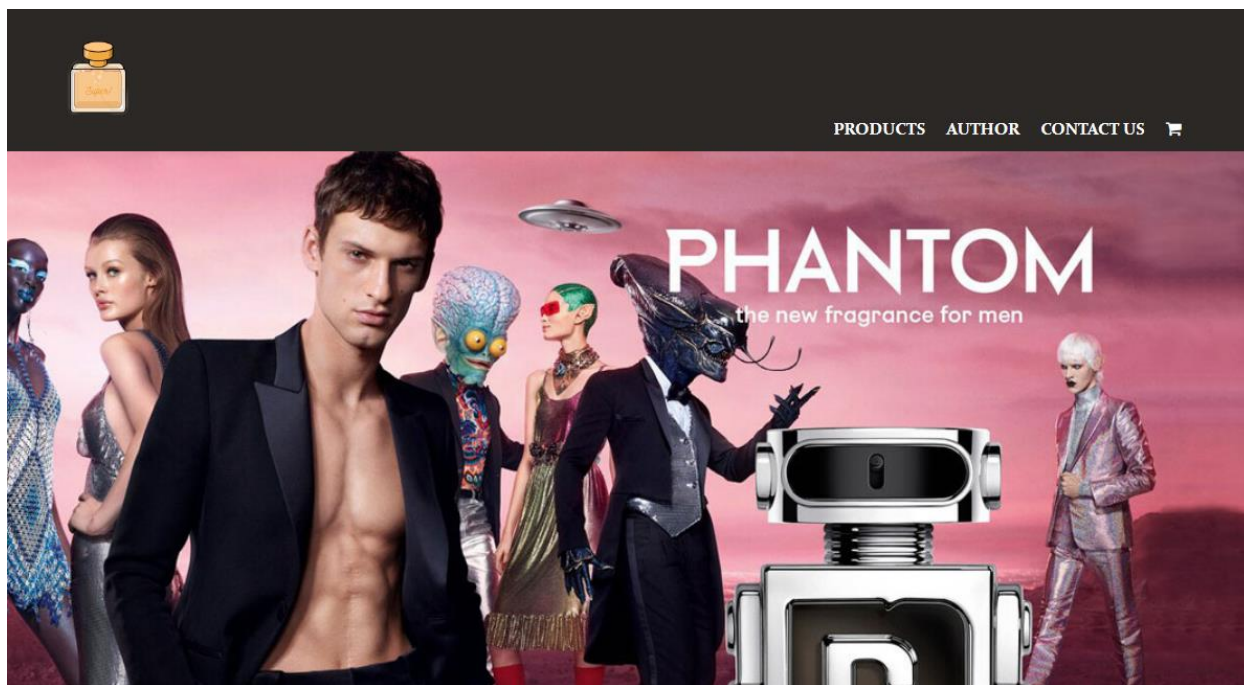
- 1) Динамичко исписивање навигационог менија, категорија, производа са описима, форме за регистрацију, подножја (footer);
- 2) Сортирање производа по називу и цени (растуће и опадајуће);
- 3) Филтрирање производа по имену артикла на основу унетог текста (претрага);
- 4) Филтрирање по брендovima;
- 5) Филтрирање по полу;
- 6) Филтрирање по проценту попушта;
- 7) Додавање у корпу и исписивање у корпи помоћу local storage;
- 8) Исписивање броја различитих артикала у корпи;
- 9) Исписивање укупне вредности артикала у корпи;
- 10) Брисање из корпе појединачних артикала и целе корпе;
- 11) Валидација контакт форме (регуларни изрази).

1.3. Дизајн сајта

Приликом сваког учитавања приказује се анимација.



Заглавље и подножје (header и footer) су исти за све странице. Заглавље је фиксирано и помера се како скролујемо страницу. На почетку странице налази се слајдер.



The screenshot displays a perfume e-commerce website. The top navigation bar includes a logo, a search bar, and links for PRODUCTS, AUTHOR, and CONTACT US. The left sidebar contains filters for 'Sort by' (Most popular, Sort by discount) and 'Filter By Gender' (all, men, women). The main content area shows a grid of perfume products with their names, brands, and prices. A second view below shows the same grid filtered by brand, with a 'Filter by Brand' sidebar on the left.

Top View - Product Grid:

Product Name	Brand	Price	Action
212 VIP men	Carolina Herrera	€ 100	Add to cart
Very good girl women	Carolina Herrera	€ 100	Add to cart
Eros men	Versace	€ 60	Add to cart
Invictus men	Paco Rabanne	€ 90	Add to cart
Bad boy	Carolina Herrera	€ 170	Add to cart
L'INTERDIT	Givenchy	€ 200	Add to cart
Dylan Blue	Versace	€ 189	Add to cart
Black Opium	YSL	€ 199	Add to cart

Bottom View - Filtered by Brand:

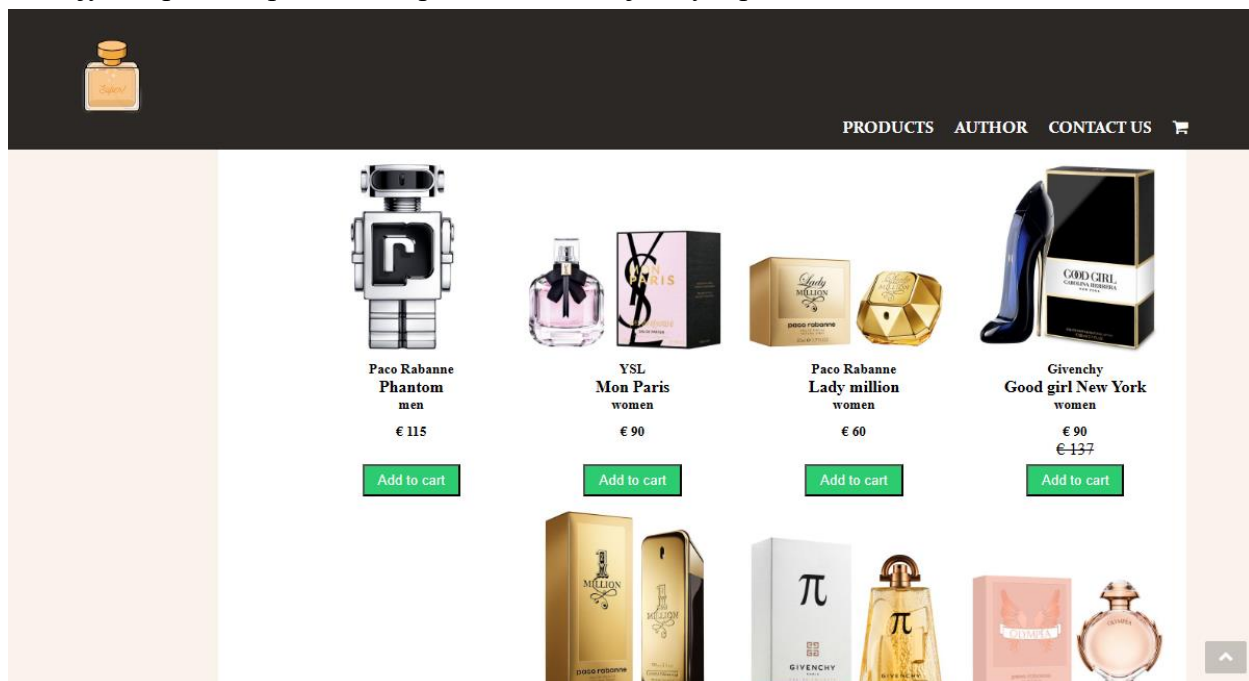
Filter by Brand:

- ☐ Paco Rabanne
- ☐ Versace
- ☐ Carolina Herrera
- ☐ YSL
- ☐ Givenchy

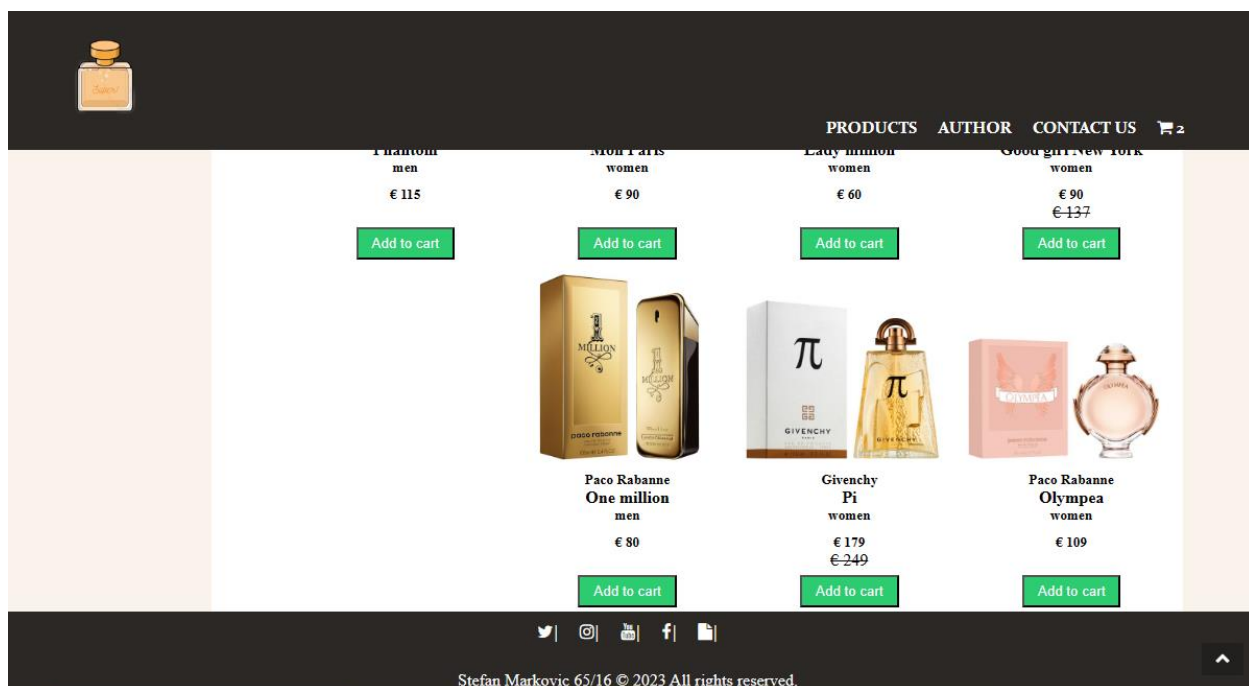
Product Name	Brand	Price	Action
Bad boy men	Carolina Herrera	€ 80	Add to cart
Linterdit women	Givenchy	€ 200	Add to cart
Dylan Blue-femme women	Versace	€ 50	Add to cart
Black Opium women	YSL	€ 40	Add to cart
Gentleman men	Givenchy	€ 120	Add to cart
Eros Flame men	Versace	€ 215	Add to cart
Dylan Turquoise women	Versace	€ 100	Add to cart
Black opium int women	YSL	€ 90	Add to cart

Како почињемо скроловање странице, у доњем десном углу се појављује мали тастер. Кликом на тастер враћамо се на почетак странице. У централном делу су динамички исписани артикли које је могуће филтрирати или сортирати са неком од опција које су динамички исписане у диву са леве стране (претрага по имену артикла, сортирање

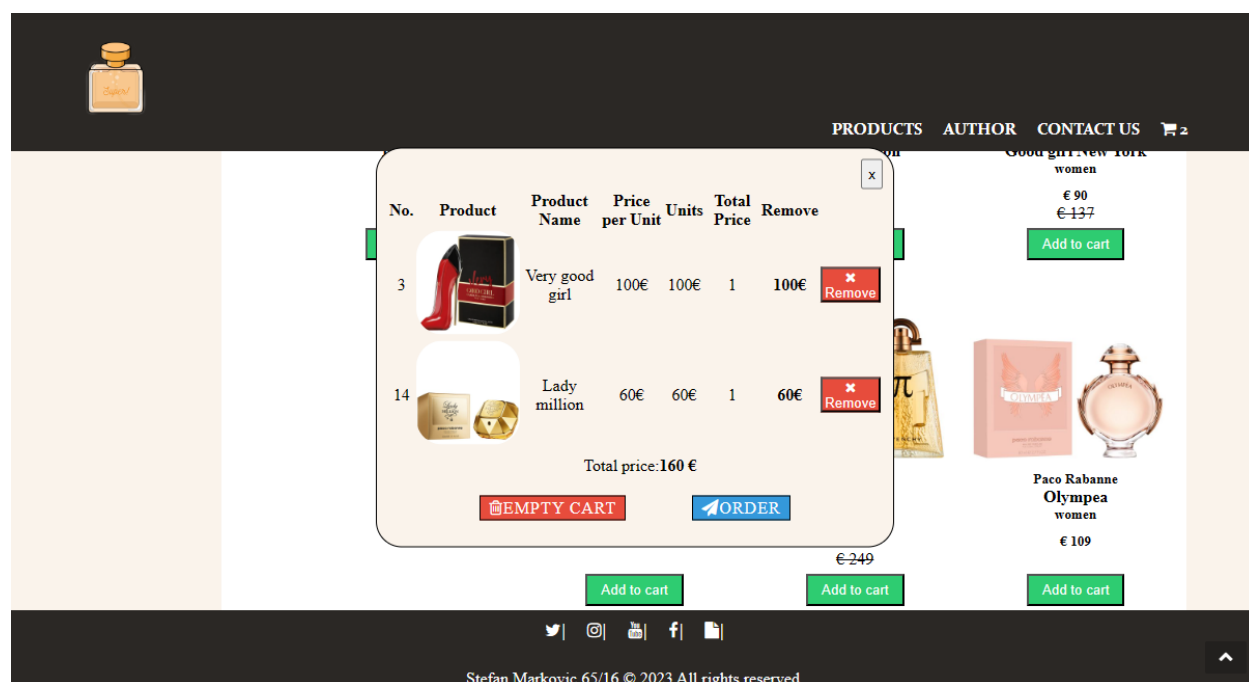
по цени или називу-растуће и опадајуће, филтрирање по проценту попушта, полу, бренду). Функционалности филтрирања и сортирања су повезане, што значи да кликом на другу опцију, задржаће вредности претходне, неће је анулирати.



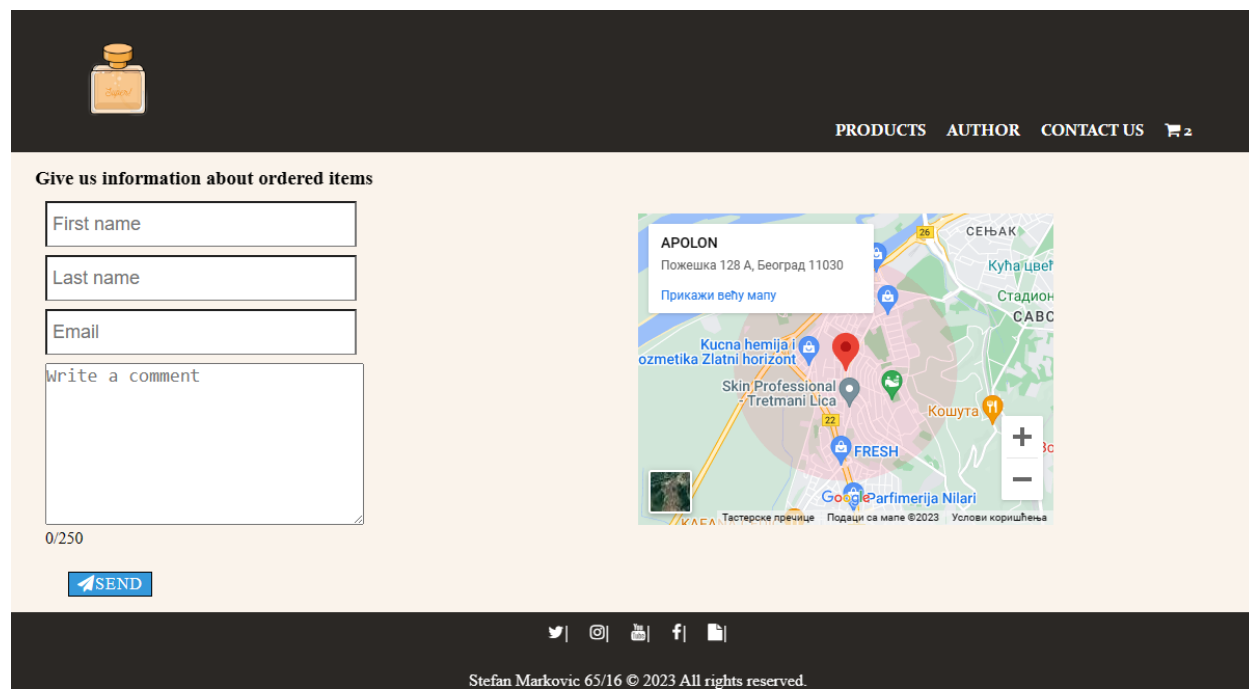
Кликом на тастер „Add to cart“ артикал се додаје у корпу и појављује се исписан број поручених производа поред корпе у навигационом менију.



Кликом на корпу на почетној страници, појављује се искачући прозор у ком су исписани артикли, са ценом, порученом количином, укупном ценом по артиклу и збиром свих артикала које корисник треба да плати. Корисник такође има могућност појединачног уклањања артикала из корпе, брисање целе корпе и закључивање поруџбине. Кликом на тастер „ORDER“ усмерени смо на страницу [contact.html](#).



Преласком на страницу [contact.html](#) динамички се испишује форма за унос корисничких података (име, презиме, емаил адреса и коментар од највише 250 карактера). Кликом на тастер „SEND“ реализује се валидација регуларних израза. Непопуњено или нетачно унето поље постаје уоквирено црвеном бојом, а испод поља се појављује натпис



који објашњава нетачно унет податак. Исправним уносом се повлачи натпис и црвена боја.

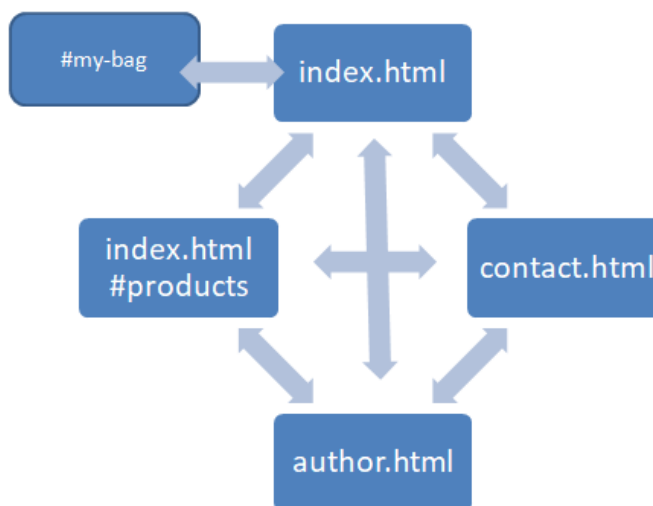


Stefan Marković was born 25.01.1991 AD in Belgrade. Graduated History at Faculty of Philosophy, the University of Belgrade in 2015 AD, finished Master studies in Medieval history in the same Institute, 2016. AD. Currently he studies Internet Technologies at the College of Informational and Communicational Technologies in Belgrade.
As a Web developer, has a knowledge of HTML, CSS, JS.
Also has knowledge about DBA, PHP C#. You can see my work on [github here](#)



1.4. Организациона шема

Сајт се састоји од 3 странице, које су међусобно повезане. Линк „products“ води на див са производима на индекс страници. Копра на индекс страници отвара искачући прозор са производима.



2. HTML

2.1. index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Apollo perfumes ||Perfume shop</title>
    <meta charset="UTF-8"/>
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <meta name="keywords" content="perfumes, cosmetics, discount, wholesale,
    | | | | | fragrance, eau de toilette, versace, paco rabanne, ysl"/>
    <meta name="description" content="The most famous perfume brands, all at one place"/>
    <meta name="author" content="Stefan Markovic 65/16"/>
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />

    <link href="assets/css/style.css" rel="stylesheet" />
    <link href="assets/css/font-awesome-4.7.0/css/font-awesome.min.css" rel="stylesheet" />
  </head>
  <body>
    <div class="loading">
      
    </div>
    <div id="navigation"></div>
    <div id="slider"></div>
    <div id="main">
      <div id="my-cart"></div>
      <div id="order"><!--You have successfully added item to cart--></div>
      <div id="class-left">
        <div id="search"></div><br/>
        <div id="sorting">
          <label for="sorting-products">Sort by:</label><br/>
          <select id="sorted"></select>
        </div><br/>
        <div id="discount"></div>
        <div id="filterGender">Filter By Gender:<br/><br/></div>
        <div id="gender"></div><br/>
      </div>
      <div id="row">
        <div id="item"></div>
        <div class="cleaner"></div>
      </div>
      <div class="cleaner"></div>
    </div>
    <div id="footer">
      <span id="links"></span>
      <br/>
      <span id="copyright">Stefan Markovic 65/16 &copy; 2023 All rights reserved.</span>
      <a href="#" id="scrollTop">
        <i class="fa fa-chevron-up"></i>
      </a>
    </div>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
    <script type="text/javascript" src="assets/js/main.js"></script>
  </body>
</html>
```

2.2. contact.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Contact us</title>
    <link href="assets/css/style.css" rel="stylesheet" />
    <link href="assets/css/font-awesome-4.7.0/css/font-awesome.min.css"rel="stylesheet" >
  </head>
  <body>
    <div id="navigation"></div>
    <div id="mainPart">
      <div id="main1"></div>
    </div>
    <div class="cleaner"></div>
    <div id="footer">
      <div id="links"></div>
      <br />
      <div class="cleaner"></div>
      <span id="copyright">Stefan Markovic 65/16 &copy; 2023 All rights reserved.</span>
      <a href="#" id="scrollUp">
        <i class="fa fa-chevron-up"></i>
      </a>
    </div>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
    <script type="text/javascript" src="assets/js/main.js"></script>
  </body>
</html>
```

2.3. author.html

```
<!DOCTYPE html>
<html>
  <head>
    <link href="assets/css/style.css" rel="stylesheet" />
    <meta charset="UTF-8"/>
  </head>
  <body>
    <div id="navigation"></div>
    <div id="main3">
      <div id="imageAuthor">
        
      </div>
      <div id="textAuthor">
        <p>
          Stefan Marković was born 25.01.1991 AD in Belgrade.
          Graduated History at Faculty of Philosophy, the University
          of Belgrade in 2015.AD, finished Master studies in Medieval
          history in the same Institute, 2016. AD. Currently he studies
          Internet Technologies at the College of Informational and
          Communicational Technologies in Belgrade.<br/>
          As a Web developer, has a knowledge of HTML, CSS, JS.
          <br/>Also has knowledge about DBA, PHP C#.
        </p>
      </div>
      <div class="cleaner"></div>
    </div>
    <div id="footer">
      <div id="links"></div>
    </div>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
    <script type="text/javascript" src="assets/js/main.js"></script>
  </body>
</html>
```

3. CSS

3.1. style.css

```
:root {
  --primary: #E88F2A;
  --secondary: #FAF3EB;
  --light: #FFFFFF;
  --dark: #2B2825;
}

*{
  margin:0;
  padding:0;
  box-sizing: border-box;
}

body {
  padding-top: 2px;
}

#navigation{
  width:100%;
  background:#2B2825;
  position: fixed;
}

#slider{
  width:100%;
  padding-top:10%;
}

#logo{
  float:left;
  background:#2B2825;
  width:40%;
  padding-left:3%;
}

#logo img{
  width:30%;
}
```

```
#brands{
  padding-left:13px;
}

#filterGender, #filterBrand, #sorting, #sorted{
  padding:9px;
}

#sorted{
  font-size:14px;
  margin-top:9px;
}

.genderClass{
  padding:5px;
}

.Add-sep {
  padding: 25px 60px 25px 120px;
}

.Add-sep:before {
  background: linear-gradient(to right, transparent 49%, #000000 49%, #000000 51%, transparent 51%);
}

.Add {
  background: #2ecc71;
  color: #fff;
  padding: 6px 13px;
}

.Add:hover {
  background: #27ae60;
}

.Add:active {
  background: #27ae60;
  top: 2px;
}
```

```
.Add:before {
  position: absolute;
  height: 100%;
  left: 0;
  top: 0;
  line-height: 3;
  font-size: 140%;
  width: 60px;
}

.btn-remove {
  background: #e74c3c;
  color: #fff;
}

.btn-remove:hover {
  background: #c0392b;
}

.btn-remove:active {
  background: #c0392b;
  top: 2px;
}

.btn-remove:before {
  position: absolute;
  height: 100%;
  left: 0;
  top: 0;
  line-height: 3;
  font-size: 140%;
  width: 60px;
}
```

```
#send, #emptyCart, #btnSend{
  border: 1px solid black;
  font-family: 'Lato';
  font-size: inherit;
  color: inherit;
  background: none;
  cursor: pointer;
  padding: 2px 8px;
  display: inline-block;
  margin: 15px 30px;
  text-transform: uppercase;
  letter-spacing: 1px;
  font-weight: 50;
  outline: none;
  position: relative;
  -webkit-transition: all 0.3s;
  -moz-transition: all 0.3s;
  transition: all 0.3s;
}

#send:after, #btnSearch:after {
  content: '';
  position: absolute;
  z-index: -1;
  -webkit-transition: all 0.3s;
  -moz-transition: all 0.3s;
  transition: all 0.3s;
}

#emptyCart {
  background: #e74c3c;
  color: #fff;
}

#emptyCart:hover {
  background: #c0392b;
}

#emptyCart:active {
  background: #c0392b;
  top: 2px;
}

#emptyCart:before, #send:before, #btnSend:before, #btnSearch:before {
  position: absolute;
  height: 100%;
  left: 0;
  top: 0;
  line-height: 3;
  font-size: 140%;
  width: 60px;
}

#send, #btnSend{
  background: #3498db;
  color: #fff;
}

#send:hover, #btnSend:hover, #btnSearch:hover {
  background: #2980b9;
}
```

```
#send:active, #btnSend:active, #btnSearch:hover {
    background: #2980b9;
    top: 2px;
}

#btnSearch{
    border: 1px solid black;
    background: #3498db;
    color: #fff;
    font-family: 'Lato';
    font-size: inherit;
    cursor: pointer;
    padding: 2px 8px;
    display: inline-block;
    margin: 15px 30px;
    text-transform: uppercase;
    letter-spacing: 1px;
    font-weight: 50;
    outline: none;
}

#navigation ul {
    float: right;
    position: relative;
    align-items: center;
    padding-top: 8%;
    padding-right: 5%;
    text-align: center;
}

#main{
    width: 100%;
    /*margin-top: 10%;*/
    background: #FAF3EB;
}

#mainPart{
    width: 100%;
    margin-top: 10%;
    background: #FAF3EB;
}

#main1{
    margin-top: 10px;
}

#main1, #main3{
    width: 100%;
    float: left;
    background: #FAF3EB;
}

#main1 h3{
    padding: 3px;
    margin-left: 20px;
}
```

```
#main3{
  margin-top:100px;
}

ul li {
  display:inline-block;
  padding:10px;
  text-transform: uppercase;
  font-family: Constantia;
  font-weight: bold;
  font-size: 16px;
  text-align:center;
}

ul li a{
  text-decoration:none;
  color:■ white;
}

ul li a:hover{
  color:■ yellow;
  text-decoration:underline;
}

.fa-shopping-cart{
  color:■ white;
}

.fa-shopping-cart:hover{
  color:■ yellow;
}

#items-in-cart{
  color:■ white;
}

#items-in-cart:hover{
  color:■ yellow;
}

.card img {
  height: 190px;
  width: auto !important;
  display: block;
}

.card{
  float:right;
  width:23%;
  padding:4px;
  text-align:center;
}
```



```
.card{
  float:right;
  width:23%;
  padding:4px;
  text-align:center;
}

body > .container {
  min-height: 100vh;
}

datalist {
  display: flex;
  flex-direction: column;
  justify-content: space-between;
  writing-mode: vertical-lr;
  width: 200px;
}

.card-body{
  padding:5px;
}

option {
  padding: 0;
}

input[type="range"] {
  width: 200px;
  margin: 0;
}

#main{
  width:100%;
}

#class-left{
  background: ■ #FAF3EB;
  float:left;
  max-width:17%;
  padding:5px;
}

#row{
  padding-left:5px;
  float:left;
  background: ■ white;
  width:77%;
}
```

```
.loading {
  width: 100%;
  height: 100vh;
  background-color: #fff;
  @include flexProperty(row, center, center);
  position: fixed;
  z-index: 1000;
  top: 0;
  left: 0;
  img {
    width: 50%;
  }
}

.danger{
  border:2px solid red;
}

.mistake{
  display:none;
}

#my-cart {
  position: fixed;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  width: 500px;
  max-height: 2000px;
  text-align: center;
  background-color: #FAF3EB;
  box-sizing: border-box;
  padding: 10px;
  z-index: 100;
  display:block;
  border-radius:25px;
  border:1px solid black;
}

#close{
  padding-bottom:10px;
  width:100%;
}

#closing{
  float:right;
  padding:5px;
}

.popUp .show{
  visibility:visible;
  -webkit-animation: fadeIn 1s;
  animation: fadeIn 1s
}
```

```
.cleaner{
  clear:both;
}

#footer{
  width:100%;
  background: #282825;
  color: white;
  text-align:center;
}

#scrollUp{
  position: fixed;
  display: none;
  background: rgba(0, 0, 0, 0.2);
  color: #fff;
  padding: 7px 13px 8px 13px;
  font-size: 14px;
  border-radius: 2px;
  right: 14px;
  bottom: 14px;
  transition: background 0.5s;
}

#scrollUp:focus {
  background: rgba(0, 0, 0, 0.2);
  color: #fff;
  outline: none;
}

#scrollUp:hover {
  background: #2dc997;
  color: #fff;
}

.img-responsive{
  border-radius:25px;
}

#contactUs{
  float:left;
  margin-left:15px;
  padding-left:10px;
  max-width:40%;
}

#main p{
  margin-left:10px;
  padding:5px;
}

.form-control{
  font-size: 18px;
}
```

```
.text-tabs{
  margin:8px;
}

.text-tabs input{
  font-size:18px;
  padding:10px 10px 10px 5px;
  display:block;
  width:300px;
  border-bottom:1px solid #757575;
}

input:focus{
  outline:none;
}

.bar{
  position:relative;
  display:block; width:300px;
}

.bar:before, .bar:after{
  content:'';
  height:2px;
  width:0;
  bottom:1px;
  position:absolute;
  background:#5264AE;
  transition:0.2s ease all;
  -moz-transition:0.2s ease all;
  -webkit-transition:0.2s ease all;
}

.bar:before {
  left:50%;
}

.bar:after {
  right:50%;
}

input:focus ~ .bar:before, input:focus ~ .bar:after {
  width:50%;
}

.highlight {
  position:absolute;
  height:60%;
  width:100px;
  top:25%;
  left:0;
  pointer-events:none;
  opacity:0.5;
}

input:focus ~ .highlight {
  -webkit-animation:inputHighlighter 0.3s ease;
  -moz-animation:inputHighlighter 0.3s ease;
  animation:inputHighlighter 0.3s ease;
}
```

```
#txSearch{
    font-size:14px;
    padding:10px 4px 4px 4px;
    display:block;
    width:170px;
    border:none;
    border-bottom:1px solid #757575;
    margin-bottom:8px;
}

input:focus{
    outline:none;
}

.shortBar{
    position:relative;
    display:block;
    width:50px;
}

.shortBar:before, .shortBar:after{
    content:'';
    height:2px;
    width:0;
    bottom:1px;
    position:absolute;
    background:#5264AE;
    transition:0.2s ease all;
    -moz-transition:0.2s ease all;
    -webkit-transition:0.2s ease all;
}

.shortBar:before {
    left:50%;
}

.shortBar:after {
    right:50%;
}

#author{
    width:100%;
    z-index:20;
    left:0;
    top:0;
    background-color: rgb(255,255,255);
    padding: 20px;
}

#author h2{
    text-align: center;
}

#author #jspic{
    width:40px;
    height:30px;
}

#imageAuthor img{
    max-width:30%;
    border-radius: 100%;
    float:right;
    padding:20px;
    margin-top:50px;
    margin-right:20px;;
}
```

```
#textAuthor{
  float: left;
  margin:30px;
  margin-top:80px;
  padding: 30px;
  text-align:justify;
  font-family:'Times New Roman';
  font-size:16px;
  width:50%;
  border:2px solid black;
}
#main2{
  float:right;
  width: 50%;
  margin:10px;
  padding:10px;
}
```

4. JSON

4.1. navigation.json

```
{
  "id":1,
  "name":"Products",
  "href":"index.html#row"
},
{
  "id":2,
  "name":"Author",
  "href":"author.html"
},
{
  "id":3,
  "name":"Contact us",
  "href":"contact.html"
},
{
  "id":4,
  "name":"My Cart",
  "href":"#"
}
```

4.2. footer.json

```
[
{
  "id": 1,
  "link": "https://twitter.com/login",
  "icons": "fa fa-twitter"
},
{
  "id": 2,
  "link": "https://www.instagram.com/",
  "icons": "fa fa-instagram"
},
{
  "id": 3,
  "link": "https://www.youtube.com/watch?v=NjDTuucnvSI",
  "icons": "fa fa-youtube"
},
{
  "id": 4,
  "link": "https://www.facebook.com/",
  "icons": "fa fa-facebook"
},
{
  "id": 5,
  "link": "documentation.pdf",
  "icons": "fa fa-file"
}
]
```

4.3. gender.json

```
[
  {
    "id":1,
    "name":"men"
  },
  {
    "id":2,
    "name":"women"
  }
]
```


4.4. brands.json

```
[
  {
    "id":1,
    "name":"Paco Rabanne"
  },
  {
    "id":2,
    "name":"Versace"
  },
  {
    "id":3,
    "name":"Carolina Herrera"
  },
  {
    "id":4,
    "name":"YSL"
  },
  {
    "id":5,
    "name":"Givenchy"
  }
]
```

4.5. sorting.json

```
[
  {
    "id":1,
    "value":"price-low-to-high",
    "name":"Price: low to high"
  },
  {
    "id":2,
    "value":"price-high-to-low",
    "name":"Price: high to low"
  },
  {
    "id":3,
    "value":"name-low-to-high",
    "name":"Name: A-Z"
  },
  {
    "id":4,
    "value":"name-high-to-low",
    "name":"Name: Z-A"
  }
]
```

4.6. prices.json

```
[
  {
    "id":1,
    "name":"Nearly free",
    "value":20
  },
  {
    "id":2,
    "name":"Very cheap",
    "value":35
  },
  {
    "id":3,
    "name":"Half priced",
    "value":50
  },
  {
    "id":4,
    "name":"Good discount",
    "value":70
  },
  {
    "id":5,
    "name":"No discount",
    "value":100
  }
]
```

4.7. registration.json

```
[
  {
    "id":1,
    "name":"firstName",
    "site":"First name",
    "value":"text"
  },
  {
    "id":2,
    "name":"lastName",
    "site":"Last name",
    "value":"text"
  },
  {
    "id":3,
    "name":"email",
    "site":"Email",
    "value":"text"
  }
]
```

4.8. products.json

```
[
  {
    "id":1,
    "name":"Invictus",
    "img":{
      "src":"assets/img/invictus.jpg",
      "alt":"Paco Rabanne Invictus edt 100ml"
    },
    "brandId":1,
    "genderId":1,
    "price":{
      "new":90,
      "old":190
    }
  },
  {
    "id":2,
    "name":"Eros",
    "img":{
      "src":"assets/img/v_eros.jpg",
      "alt":"Versace Eros edt 100ml"
    },
    "brandId":2,
    "genderId":1,
    "price":{
      "new":60,
      "old":189
    }
  },
]
```

```
{
  "id":3,
  "name":"Very good girl",
  "img":{
    "src":"assets/img/very_good_girl_w.jpg",
    "alt":"Carolina Herrera-Very Good Girl edt 100ml"
  },
  "brandId":3,
  "genderId":2,
  "price":{
    "new":100,
    "old":null
  }
},
{
  "id":4,
  "name":"212 VIP men",
  "img":{
    "src":"assets/img/212.jpg",
    "alt":"Carolina Herrera-212 vip men edt 100ml"
  },
  "brandId":3,
  "genderId":1,
  "price":{
    "new":100,
    "old":170
  }
},
{
  "id":5,
  "name":"Black Opium",
  "img":{
    "src":"assets/img/black_opium.jpg",
    "alt":"YSL-Black opium 100ml"
  },
  "brandId":4,
  "genderId":2,
  "price":{
    "new":40,
    "old":120
  }
},
{
  "id":6,
  "name":"Dylan Blue-femme",
  "img":{
    "src":"assets/img/dylan_blue_w.jpg",
    "alt":"Versace Dylan Blue women edp 100ml"
  },
  "brandId":2,
  "genderId":2,
  "price":{
    "new":50,
    "old":190
  }
},
},
```

```
{
  "id":7,
  "name":"Linterdit",
  "img":{
    "src":"assets/img/linterdit.jpg",
    "alt":"Givenchy Linterdit women edp 80ml"
  },
  "brandId":5,
  "genderId":2,
  "price":{
    "new":200,
    "old":null
  }
},
{
  "id":8,
  "name":"Bad boy",
  "img":{
    "src":"assets/img/bad_boy.jpg",
    "alt":"Carolina Herrera-Bad boy men edt 50ml"
  },
  "brandId":3,
  "genderId":1,
  "price":{
    "new":80,
    "old":95
  }
},
{
  "id":9,
  "name":"Black opium int",
  "img":{
    "src":"assets/img/black_opium_int_w.jpg",
    "alt":"YSL Black opium women edp 50ml"
  },
  "brandId":4,
  "genderId":2,
  "price":{
    "new":90,
    "old":147
  }
},
{
  "id":10,
  "name":"Dylan Turquoise",
  "img":{
    "src":"assets/img/dylan_turquoise_w.jpg",
    "alt":"Versace Dylan Turquoise women edp 100ml"
  },
  "brandId":2,
  "genderId":2,
  "price":{
    "new":100,
    "old":113
  }
},
}
```

```
{
  "id":11,
  "name":"Eros Flame",
  "img":{
    "src":"assets/img/eros_flame.jpg",
    "alt":"Versace Eros Flame men edp 200ml"
  },
  "brandId":2,
  "genderId":1,
  "price":{
    "new":215,
    "old":null
  }
},
{
  "id":12,
  "name":"Gentleman",
  "img":{
    "src":"assets/img/gentleman.jpg",
    "alt":"Givenchy Gentleman men edp 100ml"
  },
  "brandId":5,
  "genderId":1,
  "price":{
    "new":120,
    "old":199
  }
},
{
  "id":13,
  "name":"Good girl New York",
  "img":{
    "src":"assets/img/good_girl_w.jpg",
    "alt":"Carolina Hererra-Good girl New York women edp 80ml"
  },
  "brandId":5,
  "genderId":2,
  "price":{
    "new":90,
    "old":137
  }
},
{
  "id":14,
  "name":"Lady million",
  "img":{
    "src":"assets/img/lady_million_w.jpg",
    "alt":"Paco Rabanne Lady million women edp 50ml"
  },
  "brandId":1,
  "genderId":2,
  "price":{
    "new":60,
    "old":null
  }
},
}
```

```
{
  "id":15,
  "name":"Mon Paris",
  "img":{
    "src":"assets/img/mon_paris_w.jpg",
    "alt":"YSL Mon Paris women edp 90ml"
  },
  "brandId":4,
  "genderId":2,
  "price":{
    "new":90,
    "old":null
  }
},
{
  "id":16,
  "name":"Phantom",
  "img":{
    "src":"assets/img/phantom.jpg",
    "alt":"Paco Rabanne Phantom men edp 100ml"
  },
  "brandId":1,
  "genderId":1,
  "price":{
    "new":115,
    "old":null
  }
},
{
  "id":17,
  "name":"Olympea",
  "img":{
    "src":"assets/img/olympaea_w.jpg",
    "alt":"Paco Rabanne Olympea women edp 90ml"
  },
  "brandId":1,
  "genderId":2,
  "price":{
    "new":109,
    "old":null
  }
},
{
  "id":18,
  "name":"Pi",
  "img":{
    "src":"assets/img/pi.jpg",
    "alt":"Givenchy Pi women edp 100ml"
  },
  "brandId":5,
  "genderId":2,
  "price":{
    "new":179,
    "old":249
  }
},
}
```



```

{
  "id":19,
  "name":"One million",
  "img":{
    "src":"assets/img/one_million_m.jpg",
    "alt":"Paco Rabanne One million men edp 100ml"
  },
  "brandId":1,
  "genderId":1,
  "price":{
    "new":80,
    "old":null
  }
}
]

```

5. JavaScript

5.1. main.js

```
// AJAX
function callingAjax(data, ifItWorks){
$.ajax({
  url:"assets/data/"+data,
  method:"GET",
  dataType:"json",
  success: function(result){
    product=result;
    ifItWorks(result);
  },
  error: function(xhr){
    console.error(xhr);
  }
});
}

function stockToLocalStorage(item, data){
  localStorage.setItem(item, JSON.stringify(data));
}

function importFromLocalStorage(item){
  return JSON.parse(localStorage.getItem(item))
}

var url=window.location.pathname;
url=url.substring(url.lastIndexOf('/'));

$(document).ready(function(){

  //LOADING
  function loading(){
    setTimeout(()=>{
      $('.loading').remove()
    }, 2000)
  }
  loading();
});
```

```

if(url=="/index.html"){
    callingAjax("navigation.json", showNavigation);
    callingAjax("sorting.json", showDDL);
    callingAjax("gender.json", showGender);
    callingAjax("brands.json", showBrands);
    callingAjax("prices.json", filterPrices);
    callingAjax("footer.json", showFooter);
}
if(url=="/contact.html"){
    callingAjax("navigation.json", showNavigation);
    callingAjax("footer.json", showFooter);
    callingAjax("registration.json", showRegistration);
    /*myCart();
    $("my-cart").hide();*/
}
if(url=="/author.html"){
    callingAjax("navigation.json", showNavigation);
    callingAjax("footer.json", showFooter);
    myCart()
}

//SHOW NAVIGATION
function showNavigation(items){
    let html=`<div id="logo">
        <a href="index.html"></a>
    </div>
    <div id="nav"><ul>`;
    for(let index in items){
        if(index==3){
            html+=`<li><div id="my-bag">
                <i id="pop-up" class="fa fa-shopping-cart" aria-hidden="true"></i>
                <span id="items-in-cart"></span>
            </div></li>`;
        }
        else{
            html+=`<li>
                <a href='${items[index].href}' class="nav-item nav-link active"
                id="nav-${items[index].id}"> ${items[index].name} </a>
            </li>`;
        }
    }

    html+=`</ul></div><div class="cleaner"></div>`;
    $('#navigation').html(html);
    $('#pop-up').click(popUp);
    printNumberOfProducts();
}

//SHOW FOOTER
function showFooter(items){
    let html="<ul>";
    for (let index of items){
        html+=`<li><a href="${index.link}"> <i class="${index.icons}"></i></a>|</li>`;
    }
    html+="</ul>";
    $('#links').html(html);
}

```

```

//SHOW DROPDOWN LIST
function showDDL(items){
    let html=`<option value="most-popular" selected>Most popular</option>`;
    for(let index of items){
        html+=`<option value="${index.value}" class="sortirano">${index.name}</option>`
    }
    $('#sorted').html(html);
    $('#sorted').change(showItems);
}

//SHOW GENDER
function showGender (items){
    let html = "<input type='radio' value='0' class='genderClass' name='gender' checked/> all";
    items.forEach(gender => {
        html += `<input type="radio" value="${gender.id}" id="sort-gender-${gender.id}"
            class="genderClass" name="gender"/> ${gender.name}`;
    });
    $('#gender').html(html);
    gender = items;
    document.getElementById("gender").addEventListener("change", showItems);
}

//SHOW BRANDS
function showBrands(data){
    let html=`<label class='checkbox' for='checkboxId'>`;
    brands=data;
    for(let index in data){
        html += `<br/><input type="checkbox" id="sort-brand-${index.id}" value="${data[index].id}"
            class="brand" name="sort-brand-${index.id}" class="chbx"/>
            <label for="sort-brand-${index.id}">${data[index].name}<br/>`;
    }
    html+=`</label>`;
    $("#brands").html(html);
    callingAjax("products.json", showItems);
    document.querySelector("#brands").addEventListener('click', showItems);
}

//SHOW PRODUCTS
function showItems(items){
    let html='';
    stockToLocalStorage("allProducts", items);
    importFromLocalStorage(items);
    items=searchItems(items);
    items=sort(items);
    items=filterDiscount(items);
    items=brandFilter(items);
    items=genderFilter(items);

    if(items.length==0){
        html+=`<div class="col-4 mx-auto text-center">
            <p class="alert alert-danger my-3">No products :-(</p>
            </div>`;
    }
}

```

```

else{
    for(let index of items){
        html+=`<div class="col-3">
            <div class="card">
                
                <div class="card-body">
                    <div class="card-title">
                        <h5>${showBrandOrGender(index.brandId, brands)}</h5>
                        <h4><b>${index.name}</b></h4>
                    </div>
                    <h5>${showBrandOrGender(index.genderId, gender)}</h5>
                    <p class="ab"></p>
                    ${showPrice(index.price)}
                </div>
                <div class="Shop">
                    <form>
                        <input type="button" data-id="${index.id}"
                        class="Add" value="Add to cart"/>
                    </form>
                </div>
            </div>
        </div>`;
    }
}
document.querySelector("#row").innerHTML=html;
$(".Add").click(addToCart);
$(".Add").click(myCart);
myCart();
}

//SHOW PRICES AND DISCOUNT
function showPrice(data){
    let html='';
    if(data.old !==null){
        html+=`<h5><b>&euro; ${data.new}</b></h5><s>&euro; ${data.old}</s>`;
    }
    else {
        html+=`<h5><b>&euro; ${data.new}</b></h5><br/>`;
    }
}

return html;
}

//SHOW BRAND OR NAME -CODE REUSE
function showBrandOrGender(id, type){
    let html="";
    for(let index of type){
        if(index.id==id){
            return index.name;
        }
    }
}

//SHOW SEARCH
function showSearch(){
    var html=`<form action="" method="">
        <br/>
        <input type="text" id="txSearch" max-length="40" placeholder="Search by name" />
        <span class="shortBar"></span>
        <span class="highlight"></span>
        <input type="button" id="btnSearch" value="Search" />
    </form>
    <br/>`;
    document.querySelector("#search").innerHTML=html;
    btnSearch.addEventListener("click", showItems);
}
showSearch();

```

```
//SHOW FILTER PRICES

function filterPrices(items){
    let html=`<label for="itemPrices">Sort by discount</label><br/>
    <form action="" method="" oninput="valueId.value=selectedDiscount.value">
    <input type="range" min="20" max="100" value="100" id="selectedDiscount"/>
    <output id="valueId">100</output>
    <datalist id="values">`;

    for(var index of items){
        html+=`<option value="${index.value}" label="${index.name}"></option>`;
    }
    html+="<</datalist></form>";
    $("#discount").html(html);
    document.querySelector("#discount").addEventListener("change", showItems);
}

//SORTING PRODUCTS BY IT'S NAME AND PRICE: ASC, DESC

function sort(items){
    const sortType=$("#sorted").val();
    if(sortType=="name-low-to-high"){
        items.sort(function(item1,item2){
            if(item1.name>item2.name){
                return 1;
            }
            if(item1.name<item2.name){
                return -1;
            }
            if(item1.name==item2.name){
                return 0;
            }
        });
    }
    else if(sortType=="name-high-to-low"){
        items.sort(function(item1,item2){
            if(item1.name<item2.name){
                return 1;
            }
            if(item1.name>item2.name){
                return -1;
            }
            if(item1.name==item2.name){
                return 0;
            }
        });
    }
    else if(sortType=="price-low-to-high"){
        items.sort(function(item1,item2){
            if(item1.price.new>item2.price.new){
                return 1;
            }
            if(item1.price.new<item2.price.new){
                return -1;
            }
            if(item1.price.new==item2.price.new){
                return 0;
            }
        });
    }
}
```

```

        else if(sortType=="price-high-to-low"){
            items.sort(function(item1,item2){
                if(item1.price.new>item2.price.new){
                    return -1;
                }
                if(item1.price.new<item2.price.new){
                    return 1;
                }
                if(item1.price.new==item2.price.new){
                    return 0;
                }
            });
        }
        else{
            items.sort(function(item1,item2){
                if(item1.id<item2.id){
                    return -1;
                }
                if(item1.id>item2.id){
                    return 1;
                }
                if(item1.id==item2.id){
                    return 0;
                }
            });
        }
        return items;
    }

    //FILTER FUNCTIONS

    //BY BRAND
    function brandFilter(items){
        let filteredItems;
        let selectBrand=$('#.brand:checked').val();
        let selectedBrand = [];
        $('#.brand:checked').each(function(item){
            selectedBrand.push(parseInt($(this).val()));
        });
        if(selectedBrand.length != 0){
            filteredItems=items.filter(function(item){
                for(var index of selectedBrand)
                    if(index==item.brandId){
                        return item;
                    }
            });
        }
        if(selectedBrand==0){
            filteredItems=items;
        }
        return filteredItems;
    }

```



```

//BY GENDER
function genderFilter(items){
    let filteredItems;
    let selectedGender=$("#genderClass:checked").val();

    if(selectedGender==0){
        filteredItems=items;
    }
    else{
        filteredItems=items.filter(function(item){
            if(selectedGender==item.genderId){
                return item;
            }
        });
    }
    return filteredItems;
}

//BY SEARCH
function searchItems(items){
    let writtenWord=$("#txSearch").val();
    let filteredItems = product.filter(function(item){
        if(item.name.toLowerCase().indexOf(writtenWord.trim().toLowerCase())!=-1){
            return item;
        }
    });
    return filteredItems;
}

//BY DISCOUNT
function filterDiscount(items){
    let selectedDiscount=$("#selectedDiscount").val();
    var discount;
    let filteredItems=items.filter(function(item){
        if(item.price.old==null){
            discount=100;
        }
        else if(item.price.old!=null){
            discount=Math.round((item.price.new/item.price.old)*100);
        }
    });
    if(discount<=selectedDiscount){
        return item
    }
    });
    return filteredItems;
}

// LOCAL STORAGE
function stockToLStorage(key, value){
    localStorage.setItem(key, JSON.stringify(value));
}
function importFromLStorage(key){
    return JSON.parse(localStorage.getItem(key));
}

```

```
//MY CART
function myCart(){
let productsInCart = importFromLocalStorage("cart");
  if(productsInCart == null){
    EmptyCart();
  }
  else{
    showCart();
  }
}

function EmptyCart(){
  html=`<i class="fas fa-dizzy" aria-hidden="true"></i>
<p><b>Unfortunately, your bag is empty :-( </b></p>
<i class="fa fa-exclamation-triangle" aria-hidden="true"></i>`;
  $("#my-cart").html(html);
}

function showCart(){
  let allProducts = importFromLocalStorage("allProducts");
  let productsInCart = importFromLocalStorage("cart");

  let productsForDisplay = allProducts.filter(el => {
    for(let pCart of productsInCart){
      if(el.id == pCart.id){
        el.qty = pCart.qty;
        return true;
      }
    }
    return false;
  })
  printTable(productsForDisplay);
}

function printTable(products){
  let html = `<div id="close"><button id="closing">x</button></div><div class="cleaner"></div>
    <table class="table-my-cart">
      <thead>
        <tr>
          <th>No.</th>
          <th>Product</th>
          <th>Product Name</th>
          <th>Price per Unit</th>
          <th>Units</th>
          <th>Total Price</th>
          <th>Remove</th>
        </tr>
      </thead>
      <tbody>`;
  let total = 0;
  for(let index of products){
    html += createTableRow(index);
    total = total + (index.price.new * index.qty);
  }
}
```

```

        html += `    </tbody>
        </table>
        <div id="total-price"></div>
        <button id="emptyCart"><i class="fa fa-trash-o"></i>Empty Cart</button>
        <a href="contact.html"><button id='send'><i class="fa fa-send"></i>Order</button></a>`;

    let htmlTotal=`<p>Total price:<b>${total}</b> &euro;</b></p>`;

    $("#my-cart").html(html);
    $(".btn-remove").click(removeFromCart);
    $("#total-price").html(htmlTotal);
    $("#closing").click(function(){
        $("#my-cart").toggle("fast");
    });
    $("#emptyCart").click(removeAll);
}

function removeAll(){
    console.log("radi brisanje");
    localStorage.removeItem("cart");
    myCart();
    printNumberOfProducts();
}

function removeFromCart(){
    let productId = $(this).data("id");
    let productsInCart =importFromLStorage("cart");
    let filtered = productsInCart.filter(index => index.id != productId);

    if(filtered.length == 0){
        localStorage.removeItem("cart");
    }
    else{
        stockToLStorage("cart", filtered);
    }
    myCart();
    printNumberOfProducts();
}

function createTableRow(item){
    return `<tr class="cart-item">
        <td>${item.id}</td>
        <td>
            <a href="single.html">
                
            </a>
        </td>
        <td>${item.name}</td>
        <td>${item.price.new}&euro;</td>
        <td>${item.price.new}&euro;</td>
        <td>${item.qty}</td>
        <td><b>${item.price.new * item.qty}&euro;</b></td>
        <td>
            <div class="card-item-button">
                <button class='btn-remove' data-id='${item.id}'>
                    <i class="fa fa-times"></i>
                    Remove
                </button>
            </div>
        </td>
    </tr>`;
}

```

```

function addToCart(){
    let productId = $(this).data("id");
    let productsInCart = importFromLocalStorage("cart");

    if(productsInCart == null){
        addFirstItemToCart();
        printNumberOfProducts();
    }
    else{
        if(productIsAlreadyInCart()){
            updateQty();
        }
        else{
            addItemToCart();
            printNumberOfProducts();
        }
    }
}

function addFirstItemToCart(){
    let products = [
        {
            id: productId,
            qty: 1
        }
    ];
    stockToLocalStorage("cart", products);
}

function productIsAlreadyInCart(){
    return productsInCart.filter(e1 => e1.id == productId).length;
}

function updateQty(){
    let productsLS = importFromLocalStorage("cart");

    for(let p of productsLS){
        if(p.id == productId){
            p.qty++;
            break;
        }
    }

    stockToLocalStorage("cart", productsLS);
}

//ADD TO CART
function addItemToCart(){
    let productLS = importFromLocalStorage("cart");

    productLS.push({
        id: productId,
        qty: 1
    });

    stockToLocalStorage("cart", productLS);
}
}

```

```
//SHOW NUMBER OF DIFFERENT ITEMS IN CART
function printNumberOfProducts(){
    let productsInCart = importFromLocalStorage("cart");

    if(productsInCart == null){
        let html="";
        $("#items-in-cart").html(html);
    }
    else{
        let number = productsInCart.length;
        $("#items-in-cart").html(number);
    }
}

//POP-UP MY CART
$("#my-cart").hide();
function popUp(){
    $("#my-cart").toggle("fast");
}

//SLIDER
setInterval(slider, 4000);
var counter = 1;
function slider() {
    document.querySelector("#slider img").src = "assets/img/slide" + counter + ".png";
    counter++;
    if (counter == 6) {
        counter = 1;
    }
}
slider();
});

//SCROLL TO TOP
$(window).scroll(function(){
    if($(this).scrollTop()>50){
        $("#scrollUp").fadeIn(100);
    }
    else
    {
        $("#scrollUp").fadeOut(100);
    }
});

$("#scrollUp").click(function(){
    $("body, html").animate({scrollTop:0},500
});
});

//CONTACT US
function showRegistration(items){
    let html=`<br/><h3>Give us information about ordered items</h3>
    <div id="contactUs">`;

    for(let index of items){
        html+=`<div class="text-tabs">
            <input type="${index.value}" class="validation" cols="40" id="${index.name}"
            placeholder="${index.site}"/>
            <p class="alert alert-danger mistake">
                <i>Value ${index.site} is not correct</i>
            </p>
            <span class="highlight"></span>
            <span class="bar"></span>
        </div>`;
    }
}
```

```

html+=`<form>
    <div class="text-tabs">
        <textarea class="form-control" name="comment" rows="7"
            cols="29" id="comment" placeholder="Write a comment"
            maxlength="250"></textarea>
        <div id="counting">0/250</div>
    </div>
    <button id="btnSend"><i class="fa fa-send"></i>Send</button>
</form>
<div class="cleaner">
</div>
</div>
<div id="main2">
    <iframe class="location"
        src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d22657.891732856893!2d20.377
        width="400" height="300" style="border:0;" allowfullscreen=""
        loading="lazy" referrerpolicy="no-referrer-when-downgrade">
    </iframe>
    <div class="cleaner"></div>
</div>`;

$("#main1").html(html);

//COUNTING CHARACTERS
document.getElementById("comment").addEventListener("keyup", function () {
    document.querySelector("#counting").textContent = `
        ${document.getElementById("comment").value.length}/250`;
});

//REGULAR EXPRESSION
document.querySelector("#btnSend").addEventListener("click", function (e){
    e.preventDefault()
    findErrors()
});

function findErrors() {
    var wrong = [];
    let firstName, lastName, email, comments;
    firstName = document.querySelector("#firstName");
    lastName = document.querySelector("#lastName");
    email = document.querySelector("#email");
    comment = document.querySelector("#comment");

    let firstNameRegex = /^[A-ZĀČĶŠŅ][a-zāčĳšņ]{2,14}$/;
    let lastNameRegex = /^[A-ZĀČĶŠŅ][a-zāčĳšņ]{2,18}$/;
    let emailRegex = /^[\\w-\\.]+@[\\w-]+\\.+[\\w-]{2,4}$/;
    let commentRegex = /.{2,200}/;
    let firstNameDone = false;
    let lastNameDone = false;
    let emailDone = false;
    let commentDone = false;

```

```
function checkAll(itemValue, itemRegex, itemDone, type) {
  if (itemRegex.test(itemValue.value)) {
    itemDone = true;
    console.log(itemValue.value+" je dobar");
    if (itemValue.classList.contains("danger"))
      itemValue.classList.remove("danger");
    itemValue.nextElementSibling.classList.add("mistake");
  }
  else
  {
    wrong.push(type);
    itemDone = false;
    if (!itemValue.classList.contains("danger")){
      itemValue.classList.add("danger");
      itemValue.nextElementSibling.classList.remove("mistake");
      console.log("a");
    }
    console.log(wrong);
  }
  if(wrong.length==0){
    localStorage.setItem(type, itemValue.value);
    console.log(itemValue);
  }
}

checkAll(firstName, firstNameRegex, firstNameDone, "first name")
checkAll(lastName, lastNameRegex, lastNameDone,"last name")
checkAll(email, emailRegex, emailDone, "email")
checkAll(comment, commentRegex, commentDone, "message")
};
```