Beograd, 2020.

Visoka škola strukovnih studija za informacione i komunikacione tehnologije

Dokumentacija

https://francisbaconshop.000webhostapp.com/

Predmet: Student:

Web programiranje 2   Nevena Radovanović 9/18

Sadržaj

1. Uvod

1.1. Korišćeni programski jezici

Za izradu sajta korišćeni su sledeći jezici: HTML, CSS, XML, JavaScript i JQuery.

1.2. Opis funkcionalnosti

- Navigacioni meni i footer dinamički dodati putem JavaScript-a. Navigacija je responsive i na mobilnim uređajima se pretvara u padajuću listu (JQuery).

- Od animacija, prisutno je dugme koje vraća na vrh svake stranice, mouseover animacije u navigaciji, footer-u i u galeriji na index stranici, kao i pomeranje margine teksta pri svakom učitavanju na index stranici

- Na svakoj stranici se klikom na polje „author" u meniju prikazuje modal sa informacijama o autoru (rađeno u JavaScript-u)

- Mini galerija slika na index stranici dinamički dodata pomoću AJAX-a i JSON-a (poseban fajl gallery.json). Dodat je Lightbox JQuery plugin.

- Na stranici shop.html AJAX-om popunjeno polje sa elementima za filtraciju i sortiranje proizvoda, dinamički je dodata dropdown lista sa kategorijama proizvoda (categories.json). Proizvodi se mogu sortirati po rastućoj ceni, može se odabrati kategorija i može se vršiti pretraga na osnovu unosa teksta. Proizvodi su ispisani dinamički, uz pomoć AJAX-a i JSON-a (products.json).

- Na stranici contact.html postoje dve dinamički dodate forme, prva za slanje mejla, a druga za newsletter. Provera se vrši regularnim izrazima.

- Tabela na stranici basket.html se ispisuje dinamički iz fajla basket.js, gde je isorišćen Local Storage. Broji se ukupna cena

svega što je dodato u korpu, izvan tabele. Korišćeni AJAX i JSON. Korpi se pristupa klikom na ikonicu korpe na stranici shop.html
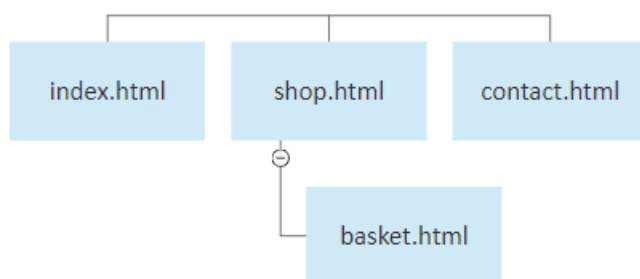
– Za deo objektnog JavaScript-a korišćene su arrow functions u funkciji za dohvatanje slika na index stranici, funkciji za ispisivanje proizvoda , svim funkcijama za sortiranje i filtriranje i u funkciji za korpu

1.3. Template

Template nije korišćen iz drugih izvora, već je pisan samostalno.

2. Organizacija

2.1. Organizaciona šema

2.2. Mapa sajta

```xml
<?xml version="1.0" encoding="UTF-8"?>
<urlset xmlns="https://www.sitemaps.org/schemas/sitemap/0.9/">
<url>

<loc>http://francisbaconshop.000webhostapp.com/index.html</loc>
        <lastmod>2020-03-11</lastmod>
        <changefreq>monthly</changefreq>
        <priority>1.0</priority>
    </url>

    <url>

<loc>http://francisbaconshop.000webhostapp.com/shop.html</loc>
        <lastmod>2020-03-11</lastmod>
        <changefreq>monthly</changefreq>
        <priority>0.9</priority>
```

```
        </url>

        <url>

<loc>http://francisbaconshop.000webhostapp.com/contact.html</loc>
            <lastmod>2020-03-11</lastmod>
            <changefreq>monthly</changefreq>
            <priority>0.5</priority>
        </url>

        <url>

<loc>http://francisbaconshop.000webhostapp.com/basket.html</loc>
            <lastmod>2020-03-11</lastmod>
            <changefreq>monthly</changefreq>
            <priority>0.5</priority>
        </url>

</urlset>
```

2.3. robots.txt

User-agent:*
Disallow:/img/

2.4. Stranice

2.4.1. index.html

Citat u prvom h1 tagu po učitavanju stranice vrši tranziciju udesno, a tekst u p tagu isto samo po ulasku u blok. Prelaskom miša preko bilo koje slike prikazuje se box shadow roze boje, a klikom na bilo koju sliku se prikazuje njena verzija u punoj veličini. Prelaskom preko elemenata navigacije i ikonica u footer-u, pojavljuje se text shadow.

Responsive navigacija.

2.4.2. shop.html

Dinamički dodati elemnti za filtraciju, klikom na ikonicu korpe korisnik se preusmerava na stranicu basket.html, koja mu na osnovu izabranih proizvoda prikazuje korpu. Sortiranje proizvoda po ceni naviše klikom na dugme, prikaz na osnovu izabrane kategorije, traženje po ključnim rečima / slovima.
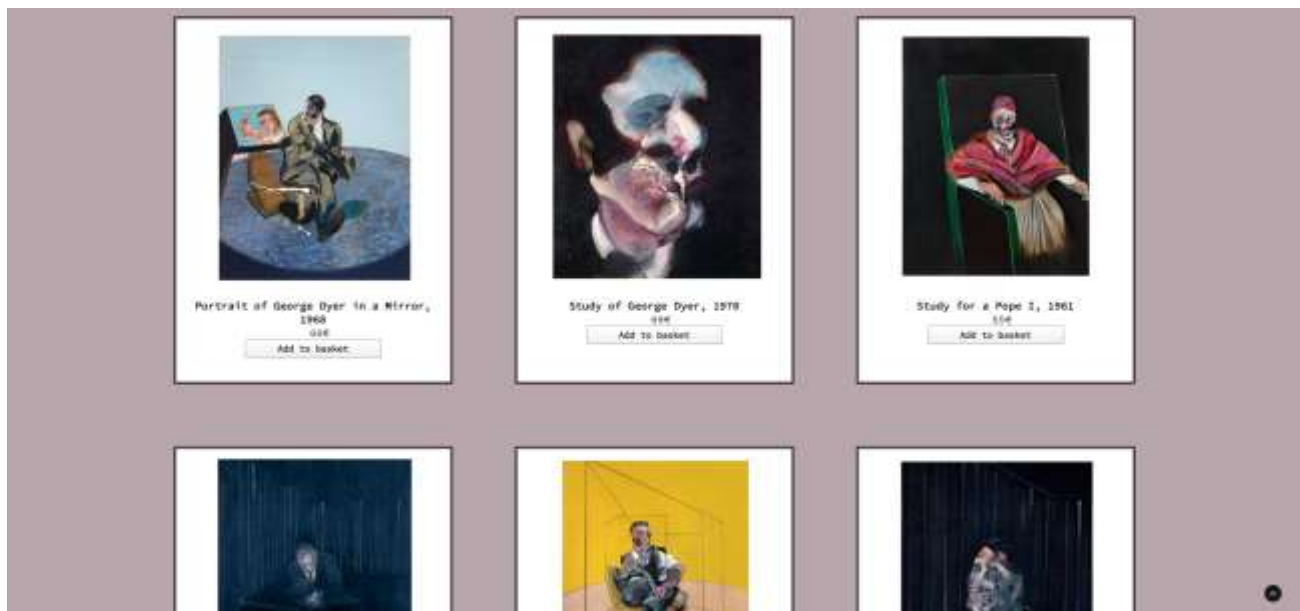
Na kliknuto dugme „Add to basket" proizvod se prikazuje u korpi.

2.4.3. basket.html

Korpa minimalističkog izgleda, klikom na dugme „remove" proizvod se uklanja iz korpe i ukupna cena se automatski ažurira.

2.4.4. contact.html

Forme su dodate dinamički JavaScript-om, CSS-om su definisani okvir koji ukazuje na grešku po submit-u i boja label-a koji ispisuje grešku ispod elementa forme. Validacija postoji za sva polja i za to su korišćeni regularni izraz

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2.4.5. Modal za autora

Klikom na li tag „author" u navigacionom meniju se otvara modal iza koga se zamućuje pozadina blur efektom u CSS-u, iz modala se izlazi klikom na x u ćošku ili bilo gde van samog modala.

3. Kodovi

3.1. HTML

3.1.1. index.html

```html
<!DOCTYPE html>
<html>
    <head>

        <meta charset="UTF-8">
        <meta name="keywords" content="francis,bacon,art,print,price,paint"/>
        <meta name="description" content="Francis Bacon - the artist"/>
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <title>Home | Francis Bacon</title>

        <link rel="stylesheet" type="text/css" href="css/style.css">
        <link rel="stylesheet" type="text/css" href="css/lightbox.min.css">
        <link rel="icon" href="img/icon.ico" sizes="32x32">
        <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.5.0/css
/all.css">
        <link href="https://fonts.googleapis.com/css?family=Source+Code+Pro&display=
swap" rel="stylesheet">


    </head>
    <body>
        <div id="header">
            <div class="hidden">
                <i class="fas fa-angle-down"></i>
                    <span>Francis  Bacon</span>
            </div>
            <div id="left">
                <a href="index.html">
                    <span>Francis<br/>   Bacon</span>
                </a>
            </div>
            <div id="right"></div>
            <div class="cleaner"></div>
        </div>
        <div class=container>
            <div id="containerindex">
                <div id="containerindex1">
                        <h1>"Great art is always a way of concentrating, reinventing
 what is called fact, what we know of our existence -
 a reconcentration... tearing away the veils that fact acquires through time."</h1>
                </div>
```

```html
            <div id="containerindex2">
                <h1><span>Who is he?</span></h1>
                <div id="containerindextext">
                    <p>Francis Bacon, (born October 28, 1909, Dublin, Ireland—
died April 28, 1992, Madrid, Spain), Irish artist and one of the most unique, engagi
ng figurative painters to emerge during the post-war period. Self-
taught as an artist, he drifted in Berlin and Paris before settling in London in 192
8, after which he worked as an interior decorator. He had also begun painting, thoug
h he did so without recognition until 1945, at which time the original and powerful
style displayed in such works as Three Studies for Figures at the Base of a Crucifix
ion (1944) won him almost instant recognition. Many of Bacon's early paintings are b
ased on images by other artists, which he distorts for his own expressive purposes.
Many of them depict isolated figures, often framed by geometric constructions, and r
endered in smeared, daring colours. He was admired for his skill in using oils, whos
e fluidity and mysteries he exploits to express strong emotions.</p>
                    <div id="gallery"></div>
                </div>
            </div>
        </div>
        <div id="modalautor">
            <div id="modalcontent">
                <div id="modalgore">
                    <span id="zatvori">&times;</span>
                    <p>Nevena Radovanović</p>
                    <p>Internet Tehnologije</p>
                    <p>9/18</p>
                </div>
                <div id="modaldole">
                    <img src="img/autor.jpg" alt="autor">
                </div>
                <div class="cleaner"></div>
            </div>
        </div>
        <button id="scrollbtn" title="Go to top"><i class="fas fa-angle-
up"></i></button>
        <div id="footer">
            <div id="social"></div>
        </div>
        <script type="text/javascript" src="js/main.js"></script>
        <script src="https://code.jquery.com/jquery-3.4.1.js" integrity="sha256-
WpOohJOqMqqyKL9FccASB9O0KwACQJpFTUBLTYOVvVU=" crossorigin="anonymous"></script>
        <script type="text/javascript" src="js/lightbox-plus-
jquery.min.js"></script>
    </body>
</html>
```

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3.1.2. shop.html

```html
<!DOCTYPE html>
<html>
    <head>

        <meta charset="UTF-8">
        <meta name="keywords" content="francis,bacon,art,print,price,paint"/>
        <meta name="description" content="Francis Bacon - the artist"/>
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <title>Shop | Francis Bacon</title>

        <link rel="stylesheet" type="text/css" href="css/style.css">
        <link rel="icon" href="img/icon.ico" sizes="32x32">
        <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.5.0/css
/all.css">
        <link href="https://fonts.googleapis.com/css?family=Source+Code+Pro&display=
swap" rel="stylesheet">


    </head>
    <body>
        <div id="header">
            <div class="hidden">
                <i class="fas fa-angle-down"></i>
                    <span>Francis  Bacon</span>
            </div>
            <div id="left">
                <a href="index.html">
                    <span>Francis<br/>   Bacon</span>
                </a>
            </div>
            <div id="right"></div>
            <div class="cleaner"></div>
        </div>
        <div class=container>
            <div id="divshop">
            <div id="filtershop">
            </div>
            <div id="containershop">
            </div>
            <div class="cleaner"></div>
            </div>
        </div>
        <div id="modalautor">
            <div id="modalcontent">
                <div id="modalgore">
```

```
                <span id="zatvori">&times;</span>
                <p>Nevena Radovanović</p>
                <p>Internet Tehnologije</p>
                <p>9/18</p>
            </div>
            <div id="modaldole">
                <img src="img/autor.jpg" alt="autor">
            </div>
            <div class="cleaner"></div>
        </div>
    </div>
    <button id="scrollbtn" title="Go to top"><i class="fas fa-angle-
up"></i></button>
    <div id="footer">
        <div id="social"></div>
    </div>
    <script type="text/javascript" src="js/main.js"></script>
    <script src="https://code.jquery.com/jquery-3.4.1.js" integrity="sha256-
WpOohJOqMqqyKL9FccASB9O0KwACQJpFTUBLTYOVvVU=" crossorigin="anonymous"></script>
    </body>
</html>
```

3.1.3. contact.html

```
<!DOCTYPE html>
<html>
    <head>

        <meta charset="UTF-8">
        <meta name="keywords" content="francis,bacon,art,print,price,paint"/>
        <meta name="description" content="Francis Bacon - the artist"/>
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <title>Contact | Francis Bacon</title>

        <link rel="stylesheet" type="text/css" href="css/style.css">
        <link rel="icon" href="img/icon.ico" sizes="32x32">
        <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.5.0/css
/all.css">
        <link href="https://fonts.googleapis.com/css?family=Source+Code+Pro&display=
swap" rel="stylesheet">


    <body>
        <div id="header">
            <div class="hidden">
                <i class="fas fa-angle-down"></i>
                    <span>Francis  Bacon</span>
```

```html
            </div>
            <div id="left">
                <a href="index.html">
                    <span>Francis<br/>   Bacon</span>
                </a>
            </div>
            <div id="right"></div>
            <div class="cleaner"></div>
        </div>
        <div class=container>
            <div id="contact">
                <div id="contact-container"></div>
                <div id="newsletter-container"></div>
            </div>
        </div>
        <div id="modalautor">
            <div id="modalcontent">
                <div id="modalgore">
                    <span id="zatvori">&times;</span>
                    <p>Nevena Radovanović</p>
                    <p>Internet Tehnologije</p>
                    <p>9/18</p>
                </div>
                <div id="modaldole">
                    <img src="img/autor.jpg" alt="autor">
                </div>
                <div class="cleaner"></div>
            </div>
        </div>
        <button id="scrollbtn" title="Go to top"><i class="fas fa-angle-
up"></i></button>
        <div id="footer">
            <div id="social"></div>
        </div>
        <script type="text/javascript" src="js/main.js"></script>
        <script src="https://code.jquery.com/jquery-3.4.1.js" integrity="sha256-
WpOohJOqMqqyKL9FccASB9O0KwACQJpFTUBLTYOVvVU=" crossorigin="anonymous"></script>
        </body>
</html>
```

3.1.4. basket.html

```html
<!DOCTYPE html>
<html>
    <head>

        <meta charset="UTF-8">
        <meta name="keywords" content="francis,bacon,art,print,price,paint"/>
        <meta name="description" content="Francis Bacon - the artist"/>
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <title>Basket | Francis Bacon</title>

        <link rel="stylesheet" type="text/css" href="css/style.css">
        <link rel="icon" href="img/icon.ico" sizes="32x32">
        <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.5.0/css
/all.css">
        <link href="https://fonts.googleapis.com/css?family=Source+Code+Pro&display=
swap" rel="stylesheet">


    </head>
    <body>
        <div id="header">
            <div class="hidden">
                <i class="fas fa-angle-down"></i>
                    <span>Francis  Bacon</span>
            </div>
            <div id="left">
                <a href="index.html">
                    <span>Francis<br/>   Bacon</span>
                </a>
            </div>
            <div id="right"></div>
            <div class="cleaner"></div>
        </div>
        <div class=container>
            <div class="basket"></div>
        </div>
        <div id="modalautor">
            <div id="modalcontent">
                <div id="modalgore">
                    <span id="zatvori">&times;</span>
                    <p>Nevena Radovanović</p>
                    <p>Internet Tehnologije</p>
                    <p>9/18</p>
                </div>
                <div id="modaldole">
```

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```html
                    <img src="img/autor.jpg" alt="autor">
                </div>
                <div class="cleaner"></div>
            </div>
        </div>
        <div id="footer">
            <div id="social"></div>
        </div>

        <script src="https://code.jquery.com/jquery-3.4.1.js" integrity="sha256-
WpOohJOqMqqyKL9FccASB9O0KwACQJpFTUBLTYOVvVU=" crossorigin="anonymous"></script>
        <script type="text/javascript" src="js/basket.js"></script>
        </body>
</html>
```

3.2. CSS

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

.cleaner {clear:both;}

body {
    font-family: 'Source Code Pro', sans-serif;
    background-color: #B7A6AB;
}

.container {
    height: 100%;
}

#footer, #contact, #containershop, #divshop, #filtershop, .container{
    width: 100%;
    display: flex;
    justify-content: center;
    align-items: center;
    text-align: center;
}

/* scroll dugme */

#scrollbtn {
    display: none;
    position: fixed;
    width:25px;
    height: 25px;
    bottom: 30px;
    right: 30px;
```

```css
        z-index: 99;
        border: none;
        outline: none;
        background-color: #19171C;
        color: #81A2B2;
        cursor: pointer;
        border-radius: 50%;
        font-size: 15px;
}

/* header */

#left {float:left; padding: 4px; padding-left:10%;}

#left a, .hidden span {
    text-decoration: none;
    display:inline-block;
    color: #19171C;
    font-style: italic;
    font-weight: bold;
    font-size: 23px;
}

.hidden i {
    font-size: 15px;
}

#left a{
    text-shadow:-10px 10px #756168;
}

#header {
    background-color: #B7A6AB;
    position: relative;
    z-index: 9999;
}

#right{
    float:right;
    padding-right: 5%;
}

#right ul {
    margin: 0;
    padding: 0;
    list-style-type: none;
    position: relative;
}
```

```css
#right ul li {
    display: inline-block;
}

#right ul li a {
    text-decoration: none;
    font-size: 20px;
}

#right ul li span{
    cursor: pointer;
    text-decoration: none;
    padding: 20px;
    padding-top:35px;
    display: block;
    color: #19171C;
    font-weight: bold;
    font-size: 20px;
}

#right ul ul {
    position: absolute;
    min-width: 200px;
    background: #756168;
    display: none;
}

#right ul ul li {
    display: block;
    background: #B7A6AB;
}

#right ul li:hover ul {
    display: block;
}

.hidden {
    background: #756168;
    color: #19171C;
    padding: 25px;
    font-size: 24px;
    cursor: pointer;
    display: none;
}

@media(max-width: 822px) {
    .hidden {
```

```css
        display:block;
    }
    #left {
        display:none;
    }

    #right ul {
        display:none;
        position: static;
        background: #B7A6AB;
    }
    #right ul li {
        display: block;
    }
    #right ul ul {
        position: static;
        background: #B7A6AB;
    }
}

/* modal */

#modalautor {
    display: none;
    position: fixed;
    z-index: 9999;
    padding-top: 100px;
    left: 0;
    top: 0;
    width: 100%;
    height: 100%;
    overflow: auto;
    backdrop-filter: blur(2px);
    text-align: center;
    font-style: italic;
    font-weight: bold;
}

#modalcontent {
    background-color:#F1E7E0;
    margin: auto;
    padding: 8px;
    border: 1px solid #756168;
    width: 30%;

}

#modalgore {
```

```css
    padding: 2%;
    overflow-wrap: break-word;
    font-size: 80%;
}

#modaldole img{
    width: 80%;
    height: 50%;
    padding: 2%;
}

#zatvori {
  color: #756168;
  float: right;
  font-size: 10px;
  font-weight: bold;
}

#zatvori:hover,
#zatvori:focus {
  cursor: pointer;
}

/* homepage */

#containerindex1 {
    background-image: linear-
gradient(to bottom, transparent, black), url("http://localhost/Bacon/img/bgimg.jpg")
 ;
    background-repeat: no-repeat;
    background-size:cover;
    height: 100vh;
}

#containerindex1 h1 {
    padding-top: 30%;
    width: 55%;
    color:#C47393;
    word-wrap: break-all;
    font-size:20px;
    font-weight: bold;
    text-align: justify;
}

#containerindex2 {
    background-color: black;
}
```

```css
#containerindextext {
    width: 85%;
    padding-top: 2%;
}

#containerindex2 h1, #containerindex2 p {
    color:  #5A6F87;
    font-size:19px;
    font-weight: bold;
    text-align: center;
}

#containerindex2 h1 {
    font-size: 50px;
    padding: 2%;
}

#containerindex2 h1 span {
    background-color: rgb(182, 189, 197);
    padding: 5px;
    font-style: italic;
}

#gallery {
    margin: 0px auto;
    width: 80%;
    padding: 5%;
    display: flex;
    flex-wrap: wrap;
    justify-content: center;
}

.slika{
    flex: 30%;
    padding: 20px;
}

@media(max-width: 822px) {
    #containerindex2 p {
        text-align: justify;
    }
    #containerindex2 {
        padding-top: 8%;
    }
    #containerindex2 h1 {
        padding-bottom:10%;
        font-size: 35px;
    }
```

```css
}

/* shop */

#divshop{
    flex-direction: column;
    min-height:100vh;
}

#containershop {
    width: 80%;
    justify-content: center;
    flex-wrap: wrap;
}

#filtershop {
    width: 60%;
    padding-top: 2%;
}

#basketlink {
    padding-right: 4%;
    color:#19171C;
    font-size: larger;
}

#ukupnoIspis {
    padding: 5%;
    font-size: medium;
}

#dropdownKat {
    max-width:200px;
}

#textsearch {
    padding: 10px;
    display: block;
    font-family: 'Source Code Pro', sans-serif;
    font-weight: bold;
    outline: none;
}

#btnpriceasc {
    padding: 10px;
    width: 130px;
    font-family: 'Source Code Pro', sans-serif;
    font-weight: bold;
```

```css
}

.product {
    width: 400px;
    height:530px;
    margin: 50px;
    outline: 2px solid black;
    outline-offset: 2px;
    background-color: white;
}

.pictureBlock{position: relative;}


.pictureBlock span{
    position: absolute;
    cursor: default;
    width:40%;
    height:2%;
    bottom: 5%;
    right: 50%;
    z-index: 9999;
    border: none;
    outline: none;
    color: #81A2B2;
    font-size: 20px;
    font-style: italic;
}

.descriptionBlock h1{
    font-size: medium;
}

.descriptionBlock {
    padding: 5px;
}

strike {
    font-size: small;
}

.addtobasket {
    padding: 3px;
    display: block;
    margin: 0px auto;
    width: 200px;
    font-family: 'Source Code Pro', sans-serif;
    font-weight: bold;
    font-size: smaller;
```

```css
        outline: none;
}

@media(max-width: 822px) {
    .product, .pictureBlock img, .pictureBlock span, #filtershop{
        max-width: 100%;
        height:auto;
    }
}

/* basket */

.basket {
    padding: 4%;
}

#cartitems th {
    background-color: #756168;
    padding: 3px;
}

#cartitems td {
    background-color: rgb(165, 150, 154);
}


/* contact */

#contact {
    flex-direction: column;
    padding-top: 5%;
    padding-bottom: 4%;
    background-image: url("http://localhost/Bacon/img/contactpic1.png");
    background-repeat: no-repeat;
    background-position: right;
}

#contact-container {
    width: 100%;
    margin-top: 2%;
}

.all-labels {
    display: block;
    margin: 0px auto;
    padding: 15px;
    font-size:25px;
    width: 70%;
}
```

```css
.form1items, .form2items, #dropdownKat{
    padding: 10px;
    display: block;
    margin: 0px auto;
    width: 60%;
    font-family: 'Source Code Pro', sans-serif;
    font-weight: bold;
    outline: none;
}

.form1items, .form2items {
    background: rgba(255, 255, 255, 0.3);
    border: none;
}

#btnsubscribe, #btnsend, .btnremove {
    padding: 10px;
    display: block;
    margin: 0px auto;
    width: 150px;
    font-family: 'Source Code Pro', sans-serif;
    font-weight: bold;
    background-color: #756168;
    border: none;
    font-size: medium;
    outline: none;
}

.btnremove {
    font-size: small;
    padding: 5px;
    width: 90%;
}

::placeholder {
    color: black;
}

#newsletter-option {
    width: 110px;
    width: 30%;
}

#newsletter-option option {
    border: none;
    background-color: #B7A6AB;
}
```

```css
select option {
    font-weight: bold;
}

.error {
    border: 2px solid #99475A;
}

.all-errors {
    display: block;
    margin: 0px auto;
    padding: 15px;
    font-size: 15px;
    color:#99475A ;
    font-weight: bold;
}

/* footer */

#footer {
    background-color:#B7A6AB;
    color:#19171C;
    justify-content: space-around;
    padding-top:20px;
}

#social a {
    text-decoration: none;
    color: #19171C;
    font-size: 20px;
    padding: 20px;
}
```

3.3 JavaScript i JQuery
3.3.1. main.js

```javascript
window.onload=function(){

    // scroll to top dugme
        $(window).scroll(function(){
            if ($(this).scrollTop() > 100) {
                $('#scrollbtn').fadeIn();
            } else {
                $('#scrollbtn').fadeOut();
            }
        });

        //Click event to scroll to top
        $('#scrollbtn').click(function(){
            $('html, body').animate({scrollTop : 0},800);
            return false;
        });

    //dinamicki header

    var ispisNav="<ul>";
    var nav =[{href:"index.html", opis:"home"}, {href:"shop.html", opis:"shop"}, {href:"contact.html", opis:"contact"}];

    for(let i=0; i<nav.length; i++) {
        ispisNav+="<li><a href='"+nav[i].href+"'><span>"+nav[i].opis+"</span></a></li>";
    }
    ispisNav+="<li><span id='modal_klik'>author</span></li></ul>";
    document.getElementById("right").innerHTML=ispisNav;

    // responsive navigacija

    $(".hidden").click(function() {
        $("#right ul").slideToggle();
        $("#right").css("float", "none");
    });

    $("#right ul li").click(function () {
        $("#right ul ul").slideUp();
        $(this).find('ul').stop().slideToggle();
    });

    $(window).resize(function(){
        if($(window).width()>822) {
```

```javascript
        $("#right ul").removeAttr('style');
        $("#right").css("float", "right");
    }
});


// text shadow animacija (header, box shadow u galeriji, span u modalu, footer)

$(function(){
    $("#right ul").on('mouseover', 'li', function(){
        this.style.textShadow = '-10px 10px #81A2B2';
    }).on('mouseout', 'li', function(){
        this.style.textShadow = '0 0 0';
    })
});

$(function(){
    $("#zatvori").on('mouseover', function(){
        this.style.textShadow = '-5px 0px #B7A6AB';
    }).on('mouseout', function(){
        this.style.textShadow = '0 0 0';
    })
});

$(function(){
    $("#social a").on('mouseover', function(){
        this.style.textShadow = '-10px 10px #81A2B2';
    }).on('mouseout', function(){
        this.style.textShadow = '0 0 0';
    })
});

$(function(){
    $("#gallery img").on('mouseover', function(){
        this.style.boxShadow = "10px 10px #DB7093";
    }).on('mouseout', function(){
        this.style.boxShadow = "0 0 0 0";
    })
});

//modal za autora

var modal = document.getElementById("modalautor");
var zatvoribtn = document.getElementById("zatvori");
var klikni = document.getElementById("modal_klik");

klikni.addEventListener('click', otvori);
zatvoribtn.addEventListener('click', zatvori);
```

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```javascript
function otvori(){
    modal.style.display = "block";
}

function zatvori(){
    modal.style.display = "none";
}

window.onclick = function(event) {
    if (event.target == modal) {
      modal.style.display = "none";
    }
}

//animacija teksta na index stranici

$( document ).ready(function() {
    $("#containerindex1 h1").animate({"marginLeft": "+=30%"}, "slow");
});
var scrolled=false;
$( document ).scroll(function() {
    if(scrolled==false){
        $("#containerindextext").stop().animate({"marginLeft": "+=7%"}, "slow");
        scrolled=true;
    }
});

// dinamicka galerija

// glavna funkcija za dohvatanje slika i arrow functions

const dohvatiSlike = (sl) => {
    var ispisSlike = '';
    for(let s of sl) {
      ispisSlike += `<div class="slika">
        <a href="${s.srcbig}" data-lightbox="group" data-title="${s.caption}">
            <img src="${s.srcsmall}" alt="${s.alt}">
        </a>
      </div>
      `;
    };
    document.getElementById('gallery').innerHTML = ispisSlike;
    return ispisSlike;
}

function sveslike(){
    $.ajax('./data/gallery.json', {
        method: 'GET',
```

```javascript
            dataType: 'json',
            success: (slike) => {
                dohvatiSlike(slike);
            },
            error: (xlr, status, error) => {
                console.log(error);
            }
        });
    }

    sveslike();

    // shop : json, ajax, arrow functions

    // glavna funkcija za dohvatanje proizvoda

    const dohvatiProizvode = (pr) => {
        var ispis = '';
        for(let p of pr) {
          ispis += `
        <div class="product">
        <div class="pictureBlock">`
            if(p.newInStore){
                ispis+=`<span class="newInStore"> new in store </span>`;
            }
        ispis+=`<img src="${p.picture.src}" alt="${p.picture.alt}"/>
        </div>
        <div class="descriptionBlock">
          <h1>${p.name}</h1>
          <p><span><strike>${p.price.old}</strike></span>  ${p.price.new
}€</p>
          <button class="addtobasket" data-id=${p.id}>Add to basket</button>
          <div class="cleaner"></div>
        </div>
          <div class="cleaner"></div>
      </div > `;
      };
      document.getElementById('containershop').innerHTML = ispis;
      pozoviAddToCartGlavnu();
      return ispis;
    }

    function pozoviAddToCartGlavnu() {
        var buttonsAddToCart = document.getElementsByClassName("addtobasket");
        for (var i=0; i<buttonsAddToCart.length; i++) {
            var dugme = buttonsAddToCart[i];
            dugme.addEventListener("click", addToCartGlavna);
        }
```

```javascript
}

// dohvatanje proizvoda

function sviproizvodi(){
$.ajax('./data/products.json', {
    method: 'GET',
    dataType: 'json',
    success: (proizvodi) => {
        dohvatiProizvode(proizvodi);
    },
    error: (xlr, status, error) => {
        console.log(error);
    }
  });
}

sviproizvodi();

// local storage, glavna funkcija za dodavanje u korpu

function proizvodiUKorpi() {
    return JSON.parse(localStorage.getItem("products"));
}

function addToCartGlavna() {
let id = $(this).data("id");

var products = proizvodiUKorpi();

if(products) {
    if(proizvodVecUKorpi()) {
        azuriranjeKolicine();
    } else {
        dodajULocalStorage()
    }
} else {
    dodajPrviProizvodULS();
}

function proizvodVecUKorpi() {
    return products.filter(p => p.id == id).length;
}

function dodajULocalStorage() {
    let products = proizvodiUKorpi();
    products.push({
        id : id,
```

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```javascript
            quantity : 1
        });
        localStorage.setItem("products", JSON.stringify(products));
    }

    function azuriranjeKolicine() {
        let products = proizvodiUKorpi();
        for(let i in products)
        {
            if(products[i].id == id) {
                products[i].quantity++;
                break;
            }
        }

        localStorage.setItem("products", JSON.stringify(products));
    }

    function dodajPrviProizvodULS() {
        let products = [];
        products[0] = {
            id : id,
            quantity : 1
        };
        localStorage.setItem("products", JSON.stringify(products));
    }
}

// sortiranje

// po kategoriji

const filtrirajPoKategoriji = (kat) => {
$.ajax('./data/products.json', {
    method: 'GET',
    dataType: 'json',
    success: (data) => {
        data = data.filter(p => p.categoryId == kat);
        dohvatiProizvode(data);
    },
    error: (xlr, status, error) => {
        console.log(error);
    }
    });
}

// div za filtriranje, dropdown lista za kategorije
```

```javascript
    $.ajax('./data/categories.json', {
        method: 'GET',
        dataType: 'json',
        success: (kategorije) => {
            var ispisSort =`
            <a href="basket.html" id="basketlink"><i class="fas fa-shopping-
cart"></i></a>
            <input type="button" id="btnpriceasc" value="sort by price">
            <select id="dropdownKat" name="dropdownKat">
            <option value="0">All</option>`;
            for(let c of kategorije){
                ispisSort+=`<option value="${c.id}">${c.category}</option>`;
            }
            ispisSort+=`</select>
            <div id="searchbox">
            <input type="text" id="textsearch" placeholder="search..">
            </div>`;
            document.getElementById("filtershop").innerHTML+=ispisSort;

            $("#dropdownKat").change(function() {
                Number(this.value) ? filtrirajPoKategoriji(this.value) : sviproizvod
i();
            });

            document.getElementById("btnpriceasc").addEventListener("click", sortAsc
);
            document.getElementById("textsearch").addEventListener("keyup", filterSe
arch);

        },
        error: (xlr, status, error) => {
            console.log(error);
        }
    });

    // po ceni rastucoj

    function sortAsc () {
        $.ajax('./data/products.json',{
        method: "GET",
        dataType: "json",
        success: (data) => {
            if(document.querySelector("#dropdownKat").value==0) {
                data.sort( (a,b) => {
                if(a.price.new == b.price.new)
                return 0;
                return a.price.new > b.price.new ? 1 : -1;
                });
```

```javascript
        }
        else {
            data = data.filter(p => p.categoryId == document.querySelector("#dro
pdownKat").value);
            data.sort( (a,b) => {
                if(a.price.new == b.price.new)
                return 0;
                return a.price.new > b.price.new ? 1 : -1;
            });
        }
     dohvatiProizvode(data);
    },
    error: (xlr, status, error) => {
    console.log(error);
    }
    });
}


// search

function filterSearch() {
    $.ajax('./data/products.json', {
    method : "GET",
    type : "json",
    success : (data) => {
        var vrednost = document.getElementById("textsearch").value;
        var podaci = data.filter(p=> p.name.toUpperCase().indexOf(vrednost.trim(
).toUpperCase()) != -1);
        dohvatiProizvode(podaci);
    },
    error: (xlr, status, error) => {
        console.log(error);
    }
    });
}
}
    //footer

    var ispisFooter = "";

    var ikonice = [{href:"https://www.facebook.com/francisbaconartist/", class:"fab
fa-facebook-f"},
    {href:"https://www.instagram.com/francisbaconartist/?hl=en", class:"fab fa-
instagram"},
    {href:"https://www.youtube.com/watch?v=MgrO5za0lSY", class:"fab fa-youtube"},
    {href:"sitemap.xml", class:"fa fa-sitemap"},
    {href:"dokumentacija.pdf", class:"fa fa-file"}];
```

```javascript
    for(let i=0; i<ikonice.length; i++){
        ispisFooter+="<a href='"+ikonice[i].href+"'><i class='"+ikonice[i].class+"'>
</i></a>";
    }

    document.getElementById("social").innerHTML=ispisFooter;

    //dinamicka forma prva (slanje mejla)

    var f1 = document.createElement("form");
    f1.setAttribute('action',"obrada.php");
    f1.setAttribute('method',"get");

    var label1 = document.createElement("label");
    label1.setAttribute('class', "all-labels");
    label1.innerHTML = "You can send us an e-mail:";

    var item1 = document.createElement("input");
    item1.setAttribute('type', "text");
    item1.setAttribute('id', "full-name");
    item1.setAttribute('class', "form1items");
    item1.setAttribute('placeholder', "full name");

    var item1Error = document.createElement("span");
    item1Error.setAttribute('id', "full-name-error");
    item1Error.setAttribute ('class', "all-errors");

    var item2 = document.createElement("input");
    item2.setAttribute('type', "text");
    item2.setAttribute('id', "email");
    item2.setAttribute('class', "form1items");
    item2.setAttribute('placeholder', "your e-mail address");

    var item2Error = document.createElement("span");
    item2Error.setAttribute('id', "email-error");
    item2Error.setAttribute ('class', "all-errors");

    var item3 = document.createElement("textarea");
    item3.setAttribute('cols', 65);
    item3.setAttribute('rows', 7);
    item3.setAttribute('style', "resize:none");
    item3.setAttribute('id', "tekstpolje");
    item3.setAttribute('class', "form1items");
    item3.setAttribute('placeholder', "the message");

    var item3Error = document.createElement("span");
    item3Error.setAttribute('id', "message-error");
    item3Error.setAttribute ('class', "all-errors");
```

```javascript
    var item4 = document.createElement("input");
    item4.setAttribute('type', "button");
    item4.setAttribute('id', "btnsend");
    item4.setAttribute('value', "send");

    this.document.getElementById('contact-container').appendChild(f1);
    this.document.getElementById('contact-container').appendChild(label1);
    this.document.getElementById('contact-container').appendChild(item1);
    this.document.getElementById('contact-container').appendChild(item1Error);
    this.document.getElementById('contact-container').appendChild(item2);
    this.document.getElementById('contact-container').appendChild(item2Error);
    this.document.getElementById('contact-container').appendChild(item3);
    this.document.getElementById('contact-container').appendChild(item3Error);
    this.document.getElementById('contact-container').appendChild(item4);
    this.document.getElementById('btnsend').addEventListener('click',provera1);

    function provera1 (){
        var inputFullName = document.getElementById("full-name");
        var reName = /^([A-Z][a-z]{2,15})(\s[A-Z][a-z]{2,15})+$/;

        if (!reName.test(inputFullName.value) || inputFullName.length==0) {
            inputFullName.classList.add("error");
            document.getElementById("full-name-
error").innerHTML="Please enter first and last name in a valid format";
        }
        else {
            inputFullName.classList.remove("error");
            document.getElementById("full-name-error").innerHTML=" ";
        }

        var inputEmail = document.getElementById("email");
        var reEmail = /^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,4})+$/;

        if(!reEmail.test(inputEmail.value) || inputEmail.length==0) {
            inputEmail.classList.add("error");
            document.getElementById("email-
error").innerHTML="Please enter a valid email address";
        }
        else {
            inputEmail.classList.remove("error");
            document.getElementById("email-error").innerHTML=" ";
        }

        var inputMessage = document.getElementById("tekstpolje");
        var reMessage = /^.{10,500}$/;

        if(!reMessage.test(inputMessage.value) || inputMessage.length==0) {
```

```javascript
            inputMessage.classList.add("error");
            document.getElementById("message-
error").innerHTML="Message must be between 10 and 500 characters long"
        }
        else {
            inputMessage.classList.remove("error");
            document.getElementById("message-error").innerHTML=" ";
        }
    }


    // dinamicka forma druga (prijavljivanje za newsletter)

    var f2 = document.createElement("form");
    f2.setAttribute('action',"obrada.php");
    f2.setAttribute('method',"get");

    var label2 = document.createElement("label");
    label2.setAttribute('class', "all-labels");
    label2.innerHTML = "...or you can subscribe to our newsletter, and we'll notify
you about the latest exibitions and public classes:";

    var item5 = document.createElement("input");
    item5.setAttribute('type', "text");
    item5.setAttribute('id', "emailOpet");
    item5.setAttribute('class', "form2items");
    item5.setAttribute('placeholder', "your e-mail address");

    var item5Error = document.createElement("span");
    item5Error.setAttribute('id', "email-error-opet");
    item5Error.setAttribute ('class', "all-errors");

    var label3 = document.createElement("label");
    label3.setAttribute('class', "all-labels");
    label3.innerHTML = "How often do you want us to send you e-mails?";

    var options = ["Select","Weekly digest", "Monthly", "Only the most important eve
nts"];
    var optionList = document.createElement("select");
    optionList.setAttribute('id', "newsletter-option");
    optionList.setAttribute('class', "form2items");

    for (var i=0; i<options.length; i++) {
        var option = document.createElement("option");
        option.value = options[i];
        option.text = options[i];
        optionList.appendChild(option);
    }
```

```javascript
    var item6 = document.createElement("input");
    item6.setAttribute('type', "button");
    item6.setAttribute('id', "btnsubscribe");
    item6.setAttribute('value', "sign me up");

    var optionListError = document.createElement("span");
    optionListError.setAttribute('id', "list-error");
    optionListError.setAttribute('class', "all-errors");

    this.document.getElementById('newsletter-container').appendChild(f2);
    this.document.getElementById('newsletter-container').appendChild(label2);
    this.document.getElementById('newsletter-container').appendChild(item5);
    this.document.getElementById('newsletter-container').appendChild(item5Error);
    this.document.getElementById('newsletter-container').appendChild(label3);
    this.document.getElementById('newsletter-container').appendChild(optionList);
    this.document.getElementById('newsletter-
container').appendChild(optionListError);
    this.document.getElementById('contact').appendChild(item6);
    this.document.getElementById('btnsubscribe').addEventListener('click',provera2);

    function provera2(){

        var inputEmailOpet = document.getElementById("emailOpet");
        var reEmail = /^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,4})+$/;

        if(!reEmail.test(inputEmailOpet.value) || inputEmailOpet.length==0) {
            inputEmailOpet.classList.add("error");
            document.getElementById("email-error-
opet").innerHTML="Please enter a valid email address";
        }
        else {
            inputEmailOpet.classList.remove("error");
            document.getElementById("email-error-opet").innerHTML=" ";
        }

        var izabranaOpcija = document.getElementById("newsletter-option");
        var selectedOption = izabranaOpcija.options[izabranaOpcija.selectedIndex].te
xt;

        if (selectedOption=="Select") {
            izabranaOpcija.classList.add("error");
            document.getElementById("list-
error").innerHTML="Select a valid option.";
        }
        else {
            izabranaOpcija.classList.remove("error");
            document.getElementById("list-error").innerHTML=" ";
        }
```

```
    }
```

3.3.2. basket.js

```javascript
$(document).ready(function () {
    ispisiTabelu();
});

function ispisiTabelu() {
    let proizvodi = proizvodiUKorpi();

    $.ajax({
        url : "./data/products.json",
        success: (data) => {
            data = data.filter(p => {
                for(let pr of proizvodi)
                {
                    if(p.id == pr.id) {
                        p.quantity = pr.quantity;
                        return true;
                    }
                }
                return false;
            });
            ispisiProizvode(data)
        }
    });
}

const ispisiProizvode = (pr) => {
    var ispis = `
    <table id="cartitems">
    <tr>
    <th colspan="2">item &nbsp</th>
    <th>price  </th>
    <th colspan="2">quantity</th>
    </tr>`;
    for(let p of pr) {
      ispis += `
        <tr class="basketRow">
        <td><img src="${p.picture.src}" alt="${p.picture.alt}" style="width:100px; h
eight: 100px"/></td>
        <td>${p.name}</td>
        <td class="basketElementPrice">${p.price.new}</td>
        <td class="basketElementQuantity">${p.quantity}</td>
        <td><button type="button" class="btnremove" onclick='obrisiIzKorpe(${p.id})'
>remove</button></td>
```

```
        </tr>
      `;
    };
    ispis+=`</table><h1 id="ukupnoIspis">Total sum of your order: </h1>`;
    document.getElementsByClassName('basket')[0].innerHTML = ispis;
    ukupnaCena();
    return ispis;
}

function ukupnaCena() {
    var basketContainer = document.getElementsByClassName("basket")[0];
    var basketRows = basketContainer.getElementsByClassName("basketRow");
    var ukupno = 0;
    for(var i=0; i<basketRows.length; i++){
        var basketRow = basketRows[i];
        var priceElement = basketRow.getElementsByClassName("basketElementPrice")[0]
;
        var quantityElement = basketRow.getElementsByClassName("basketElementQuantit
y")[0];
        var price = parseInt(priceElement.innerText);console.log(typeof(price));
        var quantity = parseInt(quantityElement.innerText);console.log(typeof(quanti
ty))
        ukupno += price * quantity; console.log(typeof(ukupno))
    }
    document.getElementById("ukupnoIspis").innerText+=ukupno +`€`;
}


function proizvodiUKorpi() {
    return JSON.parse(localStorage.getItem("products"));
}

function obrisiIzKorpe(id) {
    let products = proizvodiUKorpi();
    let filtered = products.filter(p => p.id != id);

    localStorage.setItem("products", JSON.stringify(filtered));

    ispisiTabelu();
}
```

3.4. JSON

3.4.1. products.json

```json
[
    {
        "id" : 1,
        "categoryId" : "1",
        "name": "Portrait of George Dyer in a Mirror, 1968",
        "newInStore" : false,
        "price" : {
            "old" : "",
            "new" : 60.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture1.jpg",
                "alt" : "Portrait of George Dyer in a Mirror, 1968"
            }
    },
    {
        "id" : 2,
        "categoryId" : "1",
        "name": "Study of George Dyer, 1970",
        "newInStore" : false,
        "price" : {
            "old" : "",
            "new" : 60.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture2.jpg",
                "alt" : "Study of George Dyer, 1970"
            }
    },
    {
        "id" : 3,
        "categoryId" : "1",
        "name": "Study for a Pope I, 1961",
        "newInStore" : false,
        "price" : {
            "old" : "",
            "new" : 55.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture3.jpg",
                "alt" : "Study for a Pope I, 1961"
            }
```

```json
        },
        {
            "id" : 4,
            "categoryId" : "1",
            "name": "Man in Blue IV, 1954",
            "newInStore" : false,
            "price" : {
                "old" : "",
                "new" : 55.00
            },
            "picture" :
                {
                    "src" : "./img/basketpicture4.jpg",
                    "alt" : "Man in Blue IV, 1954"
                }
        },
        {
            "id" : 5,
            "categoryId" : "1",
            "name": "Study for Portrait, 1971",
            "newInStore" : false,
            "price" : {
                "old" : "",
                "new" : 60.00
            },
            "picture" :
                {
                    "src" : "./img/basketpicture5.jpg",
                    "alt" : "Study for Portrait, 1971"
                }
        },
        {
            "id" : 6,
            "categoryId" : "1",
            "name": "Man in Blue VII, 1954",
            "newInStore" : false,
            "price" : {
                "old" : "",
                "new" : 55.00
            },
            "picture" :
                {
                    "src" : "./img/basketpicture6.jpg",
                    "alt" : "Man in Blue VII, 1954"
                }
        },
        {
            "id" : 7,
```

```json
        "categoryId" : "1",
        "name": "Triptych, May-June 1973",
        "newInStore" : false,
        "price" : {
            "old" : "",
            "new" : 60.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture7.jpg",
                "alt" : "Triptych, May-June 1973"
            }
    },
    {
        "id" : 8,
        "categoryId" : "1",
        "name": "Three Studies for a Crucifixion, 1962",
        "newInStore" : false,
        "price" : {
            "old" : "",
            "new" : 55.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture8.jpg",
                "alt" : "Three Studies for a Crucifixion, 1962"
            }
    },
    {
        "id" : 9,
        "categoryId" : "2",
        "name": "Interviews with Francis Bacon",
        "newInStore" : false,
        "price" : {
            "old" : 20.00,
            "new" : 11.50
        },
        "picture" :
            {
                "src" : "./img/basketpicture9.jpg",
                "alt" : "Interviews with Francis Bacon by David Sylvester"
            }
    },
    {
        "id" : 10,
        "categoryId" : "2",
        "name": "Francis Bacon: Painting in a Godless World",
        "newInStore" : true,
```

```json
        "price" : {
            "old" : "",
            "new" : 47.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture10.jpg",
                "alt" : "Francis Bacon: Painting in a Godless World by Rina Arya"
            }
    },
    {
        "id" : 11,
        "categoryId" : "2",
        "name": "Francis Bacon: A Terrible Beauty",
        "newInStore" : false,
        "price" : {
            "old" : 25.00,
            "new" : 23.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture11.jpg",
                "alt" : "Francis Bacon: A Terrible Beauty"
            }
    },
    {
        "id" : 12,
        "categoryId" : "2",
        "name": "Paintings 1990",
        "newInStore" : false,
        "price" : {
            "old" : "",
            "new" : 45.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture12.jpg",
                "alt" : "Paintings 1990 (book)"
            }
    },
    {
        "id" : 13,
        "categoryId" : "3",
        "name": "Box set of 50 postcards",
        "newInStore" : true,
        "price" : {
            "old" : "",
            "new" : 30.00
```

```
        },
        "picture" :
            {
                "src" : "./img/basketpicture13.jpg",
                "alt" : "Box set of 50 postcards"
            }
    },
    {
        "id" : 14,
        "categoryId" : "3",
        "name": "Unisex t-shirt - study for a portrait of John Edwards",
        "newInStore" : false,
        "price" : {
            "old" : "",
            "new" : 20.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture15.jpg",
                "alt" : "Unisex t-shirt - study for a portrait of John Edwards"
            }
    },
    {
        "id" : 15,
        "categoryId" : "3",
        "name": "Tray - self portrait, 1970",
        "newInStore" : true,
        "price" : {
            "old" : "",
            "new" : 35.00
        },
        "picture" :
            {
                "src" : "./img/basketpicture17.jpg",
                "alt" : "Tray - self portrait, 1970"
            }
    },
    {
        "id" : 16,
        "categoryId" : "3",
        "name": "Tray - three studies from the human body, 1967",
        "newInStore" : true,
        "price" : {
            "old" : "",
            "new" : 35.00
        },
        "picture" :
            {
```

```
                    "src" : "./img/basketpicture18.jpg",
                    "alt" : "Tray - three studies from the human body, 1967"
            }
        }
]
```

3.4.2. gallery.json

```
[
    {
        "caption": "in a good mood with friend Muriel Belcher, the owner and hostess
 of the Colony Room Club on Dean Street",
        "srcbig":"./img/gallerybig1.jpg",
        "srcsmall":"./img/gallerysmall1.jpg",
        "alt":"Francis Bacon with Muriel Belcher"
    },
    {
        "caption": "in his studio in London",
        "srcbig":"./img/gallerybig2.jpg",
        "srcsmall":"./img/gallerysmall2.jpg",
        "alt":"Francis Bacon ih his studio in London"
    },
    {
        "caption": "in front of Grand Palais, at his first exibition in France",
        "srcbig":"./img/gallerybig3.jpg",
        "srcsmall":"./img/gallerysmall3.jpg",
        "alt":"Francis Bacon at Grand Palais"
    },
    {
        "caption": "with his closest friend, Nadine Heim",
        "srcbig":"./img/gallerybig4.jpg",
        "srcsmall":"./img/gallerysmall4.jpg",
        "alt":"Francis Bacon with Nadine Heim"
    }
]
```

3.4.3. categories.json

```
[
    {
      "id": 1,
      "category": "Art prints"
    },
    {
      "id": 2,
      "category": "Books"
    },
```

```json
  {
    "id": 3,
    "category": "Special products"
  }
]
```