Visoka škola strukovnih studija za informacione i komunikacione tehnologije	e u Beogradu.
Visoka ICT škola	
V ISUKA ICI SKUIA	
Web programiranje 2 – Dokumentacija za sajt	
iPhoneStore	
https://nbrzovan.github.io/iphoneStore/index.html	
prezime studenta: Nikola Brzovan	Broj indexa: 92/18
Beograd, 2019	

Ime i

Sadržaj

1.Uvod

1.1 Korišćeni programski jezici

Za izradu sajta je korišćen programski jezik Javascript, njegova biblioteka JQuery , HTML, CSS i XML. Sajt je rađen u Visual studio codu.

1.2 Opis funkcionalnosti

- -Sajt je responsive i kod je samostalno napisan, nije korišćen framework
- -Promena pozadine header-a prilikom skrolovanja
- -Menu u header-u je dinamički ispisan AJAX-om i to kao objekat iz JSON file-a
- -Provera podataka na index strani koja se vrši regularnim izrazima
- -Klikom na linkove u meni-u, odlazi se na odredjeni deo strane ili se otvara nova stranica
- -Klikom na dugme **SEND**, proveravaju se podaci I ukoliko su odgovarajući prosledjuju se
- -Svi proizvodi, kao i njhovi opisi(model, color, price) ipsisani su AJAX-om kao podaci iz JSON file-a
- -Proizvodi se klkikom na Sort(padajuća lista) mogu sortirati po opadajućoj ili rastućoj ceni u zavisnosti od potrebe korisnika
- -Proizvodi se takodje mogu filtrirati klikom na odgovarajući checkbox I time će se prikazati odgovarajući model telefona
- -Klikom na dugme **add**, proizvod se dodaje u korpu, izlazi obaveštenje kao potvrda da je proizvod dodat I korpu
- -Prikaz proizvoda koji je dodat u korpu, moze se videti klikom na Chart
- Na Chart stranici, prikazuje se izabran model, cena, kolicina I ukupna cena za izabrane proizvode
- -LocalStorage je korišćen za čuvanje podataka na korisničkoj strain kao I za dodavanje proizvoda u korpu
- -Klikom na sliku, koja se nalazi na strainici author.html prikazuje se ime autora.

1.3 Template

Template za izradu sajta nije korišćen, već je kod samostalno napisan

2. Organizacija

2.1 Organizaciona šema

Sve stranice sajta su dostupne sa svake stranice sajta. Ne postoje stranice kojima nije moguće pristupiti sa neke od stranica sajta.

2.2 Mapa sajta

2.3 Robots.txt

User-agent:*

Disallow:/admin/

2.4 Stranice

2.4.1 index.html



About



We are committed to providing exceptional service to our customers. For purchases with fast and free delivery, shop here on apple.com or the Apple Store app.

Products

- iPhone 6iPhone 7
- iPhone 8
- iPhone X

Sort... ▼





Model : iPhone 6 Color : Gold Price : 200



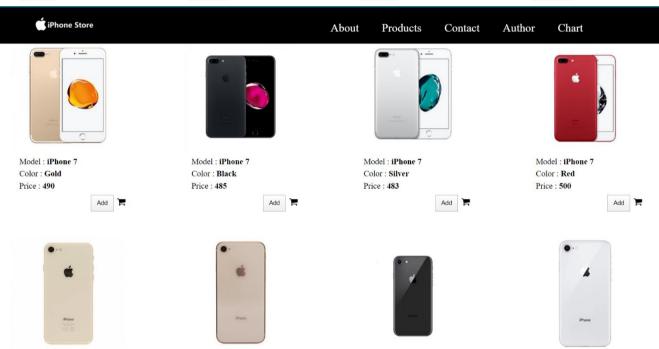
Model : iPhone 6 Color : Pink Price : 205

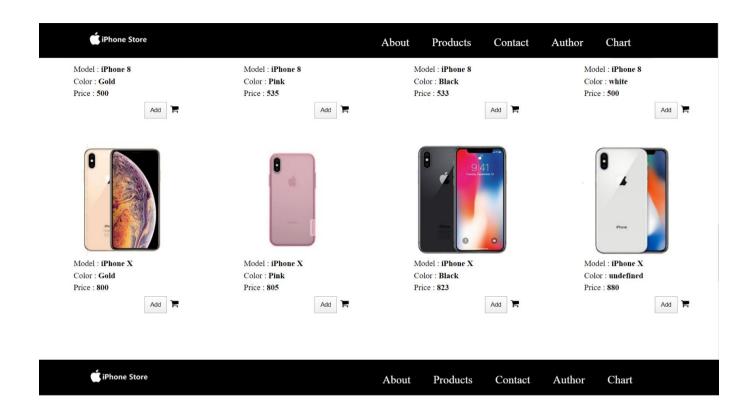


Model : iPhone 6 Color : Silver Price : 203

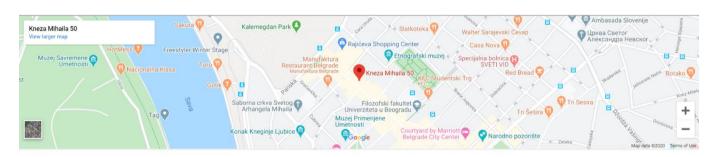


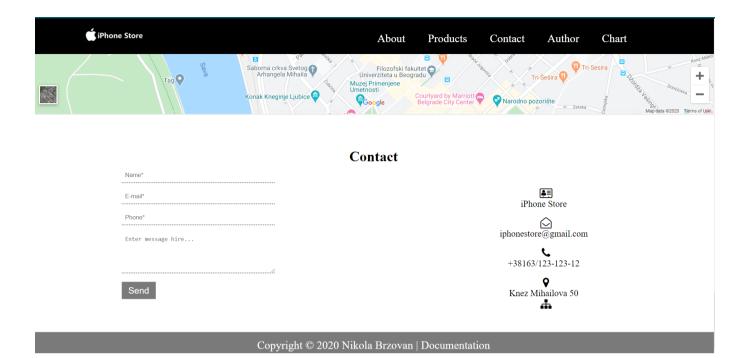
Model: iPhone 6 Color: White Price: 190





FindingUs





2.4.2 author.html





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2.4.3 chart.html



MODEL | PRICE | QUANTITY | PRICE*QUANTITY



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2.5 Navigacioni menu



3.Kodovi

3.1 HTML

3.1.1 index.html

```
<!DOCTYPE html>
<html>
    <head>
        <title>iPhone Store</title>
        <link rel="shortcut icon" href="img/ico.ico"/>
        <meta charset="utf-8"/>
        <meta name="viewport" content="width=device-width, initial-scale=1"/>
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.min.css"/>
        <link rel="stylesheet" type="text/css" href="css/style.css"/>
        <link rel="stylesheet" type="text/css" href="css/query.css"/>
        <meta name="keywords" content="Nikola Brzovan, iPhone, Apple, iPhone Store, iPho</pre>
ne Shop"/>
        <meta name="description" content=""/>
        <meta name="author" content="Nikola Brzovan"/>
    </head>
    <body>
        <header>
            <div id="logo"></div>
            <nav id="menu"></nav>
        </header>
        <div id="cover"></div>
        <div id="content">
            <div class="description"></div>
            <div id="desAbout">
                <div id="picAbout"></div>
                <div id="textAbout"></div>
            </div>
            <div class="description"></div>
            <div id="sortAndFilter">
                <div id="sort">
                    <select id="ddlSort">
                        <option value="0">Sort...</option>
                        <option value="1">Price ascending</option>
                        <option value="2">Price descending</option>
                    </select>
                </div>
                <div id="filter"></div>
            <div id="products"></div>
```

```
<div class="description"></div>
            <div id="location">
                <iframe src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d2830.</pre>
1219401418257!2d20.452925815498585!3d44.819080379098565!2m3!1f0!2f0!3f0!3m2!1i1024!2i768
!4f13.1!3m3!1m2!1s0x475a654c92f496db%3A0xaa5248da9b81e505!2sKneza%20Mihaila%2050%2C%20Be
ograd!5e0!3m2!1sen!2srs!4v1585329222655!5m2!1sen!2srs" allowfullscreen="" aria-
hidden="false" ></iframe>
            </div>
            <div class="description"></div>
            <div id="contact">
                <div id="form"></div>
                <div id="info"></div>
            </div>
            <div id="greske"></div>
        </div>
        <footer></footer>
        <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"><</pre>
/script>
        <script src="js/main.js" type="text/javascript"></script>
    </body>
</html>
```

3.1.2 author.html

```
<!DOCTYPE html>
        <title>iPhone Store</title>
        <link rel="shortcut icon" href="img/ico.ico"/>
        <meta charset="utf-8"/>
        <meta name="viewport" content="width=device-width, initial-scale=1"/>
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.min.css"/>
        <link rel="stylesheet" type="text/css" href="css/style.css"/>
        <link rel="stylesheet" type="text/css" href="css/query.css"/>
        <meta name="keywords" content="Nikola Brzovan, iPhone, Apple, iPhone Store, iPho</pre>
ne Shop"/>
        <meta name="description" content=""/>
        <meta name="author" content="Nikola Brzovan"/>
    </head>
    <body>
        <header>
            <div id="logo"></div>
            <nav id="menu"></nav>
        </header>
        <div id="cover"></div>
        <div id="auth"></div>
        <footer></footer>
        <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"><</pre>
/script>
        <script src="js/main.js" type="text/javascript"></script>
    </body>
</html>
```

3.1.3 chart.html

```
<!DOCTYPE html>
        <title>iPhone Store</title>
        <link rel="shortcut icon" href="img/ico.ico"/>
        <meta charset="utf-8"/>
        <meta name="viewport" content="width=device-width, initial-scale=1"/>
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/4.7.0/css/font-awesome.min.css"/>
        <link rel="stylesheet" type="text/css" href="css/style.css"/>
        <link rel="stylesheet" type="text/css" href="css/query.css"/>
        <meta name="keywords" content="Nikola Brzovan, iPhone, Apple, iPhone Store, iPho</pre>
ne Shop"/>
        <meta name="description" content=""/>
        <meta name="author" content="Nikola Brzovan"/>
    </head>
    <body>
        <header>
            <div id="logo"></div>
            <nav id="menu"></nav>
        </header>
        <div id="cover"></div>
        <div id="textKorpica"></div>
        <div id="korpica"></div>
        <footer></footer>
        <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"><</pre>
/script>
        <script src="js/main.js" type="text/javascript"></script>
    </body>
</html>
```

3.2 CSS

3.2.1 style.css

```
margin:0px auto;
    padding:0px;
    box-sizing:border-box;
.cleaner {
    clear:both;
html {
    scroll-behavior:smooth;
header{
    width:100%;
    display:flex;
    justify-content:space-around;
    position:fixed;
    top:0;
    z-index:999;
    padding-top:10px;
nav{
    width:50%;
    padding-left:10%;
nav ul{
    display:flex;
    justify-content:space-around;
    list-style-type:none;
nav ul li{
    display:list-item;
    padding:20px 15px;
nav ul li a{
    text-decoration:none;
    font-size:25px;
    color:white;
#logo{
    margin-left:7%;
    padding-top:7px;
#cover{
```

```
width:100%;
    height:850px;
    background-image:url(../img/cover.jpg);
    background-size:cover;
    position:relative;
#content{
    width:100%;
#content .description{
    text-align:center;
    width:200px;
    padding-top:70px;
#content #desAbout{
    padding-top:70px;
    width:100%;
    display:flex;
    justify-content:space-around;
#content #desAbout #picAbout{
    width:40%;
    text-align: center;
#content #desAbout #textAbout{
width:40%;
min-height:50px;
text-align:center;
padding-top:3%;
#content #products{
    width:100%;
    padding-top: 70px;
    margin-top:15px;
    display:flex;
    justify-content:space-around;
    flex-wrap: wrap;
#content #products .iphone{
    width:21%;
    margin-bottom:50px;
    background-color:white;
 .iphone .iImg{
    text-align:center;
```

```
.iphone .iText p{
    margin-left:15%;
    padding:3px;
    font-size:18px;
.iBtn{
   text-align:right;
   padding-right:10%;
#location iframe{
    margin-top:50px;
    width: 100%;
    height:300px;
 footer{
    width:100%;
    min-height:55px;
    text-align:center;
    background-color: rgba(51,51,51,.65);
footer p{
    font-size:25px;
    padding-top:15px;
    color: white;
#contact{
    width:100%;
    display:flex;
    justify-content:space-around;
    flex-wrap: wrap;
    padding-bottom: 50px;
#form{
    width:50%;
form{
    width:100%;
form input, textarea{
    width:90%;
    padding:2%;
    margin:2%;
    border:none;
    border-bottom:1px dashed black;
```

```
form #btnReg{
    width:20%;
    background-color:rgba(51,51,51,.65);
    border:none;
    font-size:20px;
    color: white;
#info{
    padding-top:50px;
    width:50%;
    text-align:center;
.infFafa{
    margin-left:10px;
#info p{
    font-size:20px;
#info .fa{
    font-size: 25px;
    color: black;
#auth{
    width:100%;
    text-align: center;
#auth img{
    padding-bottom:30px;
form span{
    color: red;
.iphone span{
    font-weight: bold;
.iphone #btn{
    padding:3%;
    margin:2%;
    width:50px;
.iBtn .fa{
 font-size:20px;
 padding:2px;
 text-align:right;
#sortAndFilter{
```

```
width:100%;
    min-height:150px;
    display: flex;
    justify-content: space-around;
    padding-top:30px;
#ddlSort{
    width:250px;
    height:30px;
    border: 1px solid black;
#sort{
    padding-top:50px;
#sortiranje{
    width:50%;
    padding-top: 50px;
#korpica{
    width:100%;
#izabran{
    width: 100%;
    text-align: center;
    word-spacing: 20px;
    font-size: 20px;
#filter{
    font-size:25px;
#filter input{
   width:25px;
#textKorpica{
    text-align: center;
#textKorpica h2{
    font-size: 20px;
    padding:2%;
#greske{
    width:100%;
    color: red;
footer a{
    text-decoration:none;
```

```
color:white;
}
#txtPic{
    display: none;
}
#auth img:hover{
    opacity:0.8;
}
button{
    margin:7px;
    padding:5px;
}
#izabran p{
    padding:10px;
}
```

3.3 JavaScript, jQuery

3.3.1 main.js

```
var url=window.location.href;
if(url.indexOf("index.html")!=-1){
    $.ajax({
        url:'data/products.json',
        method:'GET',
        dataType:'json',
        success:function(prod){
            ispisProizvoda(prod);
            ispisCbox(prod);
    });
    ispisInfo();
    ispisForm();
    description();
    about();
    $("#ddlSort").change(sort);
if(url.indexOf("chart.html")!=-1){
    ispisKorpica();
    tKopica();
if(url.indexOf("author.html")!=-1){
    author();
window.onload=function(){
    $.ajax({
        url:'data/menu.json',
        method:'GET',
        dataType:'json',
        success:function(nav){
            ispisMenu(nav);
    });
    ispisLogo();
window.onscroll=function(){
    this.scrollHeader();
function ispisLogo(){
    var ispis="";
        ispis+=`<a href="index.html"><img src="img/logo.png" alt="logo"></a>`;
    document.getElementById("logo").innerHTML=ispis;
```

```
function ispisMenu(nav){
   var ispis="";
   ispis+=``;
   nav.forEach(el => {
       ispis+=`<a href="${el.href}">${el.text}</a>`;
   });
   ispis+=``;
   document.getElementById("menu").innerHTML=ispis;
function description(){
   document.querySelectorAll(".description")[0].innerHTML="<h1>About</h1>";
   document.querySelectorAll(".description")[1].innerHTML="<h1>Products</h1>";
   document.querySelectorAll(".description")[2].innerHTML="<h1>FindingUs</h1>";
   document.querySelectorAll(".description")[3].innerHTML="<h1>Contact</h1>";
function about(){
   var slika=document.getElementById("picAbout");
   var text=document.getElementById("textAbout");
   slika.innerHTML=`<img src="img/store1.jpg"/ alt="store"/>`;
   text.innerHTML="<h2>We are committed to providing exceptional service to our custome
rs. For purchases with fast and free delivery, shop here on apple.com or the Apple Store
app.</h2>";
function ispisProizvoda(prod){
   var ispis="";
   prod.forEach(pro=>{
       ispis+=`
       <div class="iphone">
       <div class="iImg"><img src="img/${pro.img.src}" alt="${pro.img.alt}"></div>
       <div class="iText">
           Model : <span>${pro.model}</span>
           Color : <span>${pro.color}</span>
           Price : <span>${pro.price}</span>
       </div>
       <div class="iBtn"><input type="button" value="Add" data-</pre>
id="${pro.id}" class="btn" id="btn"/><i class="fa fa-shopping-cart"></i></div>
       </div>`;
   });
   document.querySelector("#products").innerHTML=ispis;
   $(".btn").click(dodajUKorpu);
```

```
(function footer(){
    document.querySelector("footer").innerHTML=`Copyright © 2020 Nikola Brzovan | <a</pre>
 href="dokumentacija.pdf" target="blank"> Documentation </a> `;
})();
function ispisForm(){
    var ispis="";
    ispis=`
    <form action="#" method="GET" name="#" id="form">
    <input type="text" placeholder="Name*" id="name" name="name"/><br/>
    <input type="email" placeholder="E-mail*" id="mail" name="mail"/><br/>>
    <input type="text" placeholder="Phone*" id="phone" name="phone"/><br/>>
    <textarea placeholder="Enter message hire..." name="messages" id="messages" rows="5"</pre>
></textarea><br/>
    <input type="button" id="btnReg" value="Send"/>
    </form>`;
    document.getElementById("form").innerHTML=ispis;
function ispisInfo(){
    var ispis=`
    <div class="infFafa"><i class="fa fa-address-card-</pre>
o"></i></a></div>iPhone Store<br/>
    <div class="infFafa"><a href="mailto:nikola.brzovan123@gmail.com"><i class="fa fa-</pre>
envelope-open-o"></a></i></div>iphonestore@gmail.com<br/>
    <div class="infFafa"><a href="tel:+3816312312312"><i class="fa fa-</pre>
phone"></i></a></div>+38163/123-123-12<br/>
    <div class="infFafa"><i class="fa fa-map-</pre>
marker"></i></a></div>Knez Mihailova 50
    <div class="infFafa"><a href="sitemap.xml" target="blank"><i class="fa fa-</pre>
sitemap"></i></a></div>
    document.getElementById("info").innerHTML=ispis;
function author(){
    var ispis=
    <img src="img/author.png" id="autPic" alt="author"/><br/>
    <h1 id="txtPic">Nikola Brzovan 92/18</h1>
    document.getElementById("auth").innerHTML=ispis;
$('#btnReg').click(function(){
    let ime = document.getElementById("name").value;
    let email = document.getElementById("mail").value;
    let telefon = document.getElementById("phone").value;
```

```
let greske=[];
    let regexIme = /^[A-Z]{1}[a-z]{2,30}$/;
    let regexEmail = /^\w[.\d\w]*\@[a-z]{2,10}(\.[a-z]{2,3})+$/;
    var regexTelefon =/^06[\d]\/[\d]{3}\-[\d]{2}-[\d]{2,3}$/;
    if(!regexIme.test(ime)){
        greske.push("Ime mora poceti velikim pocetnim slovom");
    if(!regexEmail.test(email)){
        greske.push("Mail nije u ispravnom formatu");
    if(!regexTelefon.test(telefon)){
        greske.push("Telefon nije u odgovarajucem formatu. Primer[06(cifra)/(cifra)(cifra)
a)(cifra)-(cifra)(cifra)-(cifra)]");
    if(greske.length==0){
        greske.push("Sve je u redu");
    } else{
        var ispis="";
        for(let i=0;i<greske.length;i++){</pre>
            ispis+=greske[i]+`</br>`;
        document.getElementById("greske").innerHTML=ispis;
});
function sort(){
    var vrednost = $(this).val();
    $.ajax({
        url:'data/products.json',
        method:'GET',
        dataType:'json',
        success:function(prod){
            if(vrednost!=0){
                prod.sort(function(a,b){
                    if(vrednost==1){
                        return a.price - b.price;
                    }else if(vrednost==2){
                        return b.price - a.price;
                    }
                });
            ispisProizvoda(prod);
```

```
function ispisCbox(prod){
    var niz=[];
    prod.forEach(p=>{
        if(!niz.includes(p.model)){
            niz.push(p.model)
    });
    var ispis="";
    niz.forEach(n=>{
        ispis+=`<input type="checkbox" name="cbox" value="${n}"> ${n}<br/>`;
    });
    $("#filter").html(ispis);
    $("input[name=cbox]").click(filtriranje);
    var nizFilter=[];
    function filtriranje(){
        var vrednost = $(this).val();
        if(!nizFilter.includes(vrednost)){
            nizFilter.push(vrednost);
        }else{
            nizFilter=nizFilter.filter(f=>{
                return f!=vrednost;
            });
        console.log(nizFilter);
        $.ajax({
            url:'data/products.json',
            method:'GET',
            dataType:'json',
            success:function(prod){
                var products=prod.filter(p=>{
                     if(nizFilter.length){
                        for(let i=0;i<nizFilter.length;i++){</pre>
                             if(nizFilter[i]==p.model){
                                 return true;
                       }
                     }
                    else
                         return true;
                });
```

```
console.log(products);
                     ispisProizvoda(products);
          });
function ispisKorpica(){
     $.ajax({
          url:'data/products.json',
          method:'GET',
          dataType:'json',
          success:function(prod){
               var ispis="";
               let proizvodi= JSON.parse(localStorage.getItem("IzabranProizvod"));
                     let kupljeniProizvodi=prod.filter(p=>{
                          for(let i=0; iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
                                if(proizvodi[i].id==p.id){
                                     p.kol=proizvodi[i].kol;
                                     return true;
                     });
                     if(kupljeniProizvodi.length){
                          ispis+=`<div id="izabran">`
                          kupljeniProizvodi.forEach(p=>{
                                ispis+=`${p.model} ${p.price} ${p.kol} ${p.price*p.kol}<br/><br/>
utton data-id="${p.id}">Remove <i class="fa fa-remove"></i></button>`;
                          ispis+="</div>";
                          $("#korpica").html(ispis);
                          $("#korpica button").click(ukloniProizvod);
     });
function ukloniProizvod(){
     var vrednost=$(this).data("id");
     var products=JSON.parse(localStorage.getItem("IzabranProizvod"));
     products=products.filter(p=>p.id!=vrednost);
     localStorage.setItem("IzabranProizvod", JSON.stringify(products));
     ispisKorpica();
     location.reload();
function dodajUKorpu(){
     let val=$(this).data("id");
```

```
let products=[];
    if(localStorage.getItem("IzabranProizvod")!=null){
       products=JSON.parse(localStorage.getItem("IzabranProizvod"));
       if(products.filter(p=>p.id==val).length){
            products.forEach(p=>{
                if(p.id==val){
                    p.kol++;
                }
            });
            localStorage.setItem("IzabranProizvod", JSON.stringify(products));
       }else{
        products.push({
                id:val,
                kol:1
            });
            localStorage.setItem("IzabranProizvod", JSON.stringify(products));
    else{
        products[0]={
            id:val,
            kol:1
        localStorage.setItem("IzabranProizvod", JSON.stringify(products));
    alert("Add to Chart");
var header = document.getElementsByTagName("header")[0];
function scrollHeader(){
    if(document.body.scrollTop>800 || document.documentElement.scrollTop>800){
        header.style.background="black";
    else {
        header.style.background="none";
function tKopica(){
    var txt="<h2>MODEL | PRICE | QUANTITY | PRICE*QUANTITY</h2>"
    $("#textKorpica").html(txt);
$(document).ready(function(){
    $("#autPic").click(function(){
     $("#txtPic").slideToggle("slow");
```

```
});
});
```

3.4 query.css

```
@media screen and (max-width: 1200px){
    header nav{
       width:70%;
    #content #desAbout{
        display:block;
        text-align: center;
@media screen and (max-width: 980px){
    nav ul li{
       padding:20px 5px;
   #logo{
       margin: 0px auto;
@media screen and (max-width: 740px){
   nav{
       width:70%;
       margin-top:2%;
   nav ul{
       margin:0px auto;
   nav ul li a{
       font-size:17px;
   #logo{
       margin-top:2%;
   #content #products .iphone{
       width:50%;
   #contact{
       display:block;
   #form{
   width:80%;
```

```
#info{
    width: 80%;
#sortAndFilter{
    display: block;
    text-align:center;
#filter{
    padding-top: 100px;
#content #desAbout #picAbout{
    width:70%;
@media screen and (max-width: 500px){
    #content #products{
        text-align: center;
    #content #products .iphone{
        width:100%;
    header{
        display:block;
        text-align: center;
    #cover{
        height:400px;
```

3.4 JSON

3.4.1 products.json

```
"id":1,
"img":{
    "src":"../img/iphone6/iphone6gold.jpg",
    "alt":"Iphone 6"
"model":"iPhone 6",
"color": "Gold",
"price":"200"
"id":2,
"img":{
    "src":"../img/iphone6/iphone6-pink.jpg",
    "alt":"Iphone 6"
    },
"model":"iPhone 6",
"color": "Pink",
"price":"205"
"id":3,
"img":{
    "src":"../img/iphone6/iphone6-silver.jpg",
    "alt":"Iphone 6"
    },
"model":"iPhone 6",
"color": "Silver",
"price":"203"
"id":4,
"img":{
    "src":"../img/iphone6/iphone6-white.jpg",
    "alt":"Iphone 6"
    },
"model":"iPhone 6",
"color":"White",
"price":"190"
"id":5,
```

```
"img":{
        "src":"../img/iphone7/iphone7-gold.jpg",
        "alt":"Iphone 7"
        },
    "model":"iPhone 7",
    "color": "Gold",
    "price":"490"
    "id":6,
    "img":{
        "src":"../img/iphone7/iphone7-black.jpg",
        "alt":"Iphone 7"
        },
    "model":"iPhone 7",
    "color": "Black",
    "price":"485"
    "id":7,
    "img":{
        "src":"../img/iphone7/iphone7-silver.jpeg",
        "alt":"Iphone 7"
    "model":"iPhone 7",
    "color": "Silver",
    "price":"483"
    "id":8,
    "img":{
        "src":"../img/iphone7/iphone7-red.jpg",
        "alt":"Iphone 7"
        },
    "model":"iPhone 7",
    "color": "Red",
    "price":"500"
},
    "if":9,
    "img":{
        "src":"../img/iphone8/iphone8-gold.jpg",
        "alt":"Iphone 8"
        },
    "model":"iPhone 8",
```

```
"color": "Gold",
    "price":"500"
    "id":10,
    "img":{
        "src":"../img/iphone8/iphone8-pink.jpg",
        "alt":"Iphone 8"
        },
    "model":"iPhone 8",
    "color": "Pink",
    "price":"535"
    "id":11,
    "img":{
        "src":"../img/iphone8/iphone8-black.jpg",
        "alt":"Iphone 8"
        },
    "model":"iPhone 8",
    "color":"Black",
    "price":"533"
    "id":12,
        "src":"../img/iphone8/iphone8-white.jpg",
        "alt":"Iphone 8"
        },
    "model":"iPhone 8",
    "color": "white",
    "price":"500"
},
    "id":13,
    "img":{
        "src":"../img/iphoneX/iphoneX-gold.jpg",
        "alt":"Iphone X"
        },
    "model":"iPhone X",
    "color": "Gold",
    "price":"800"
},
    "id":14,
```

```
"img":{
    "src":"../img/iphoneX/iphoneX-pink.jpg",
    "alt": "Iphone X"
   },
"model":"iPhone X",
"color": "Pink",
"price":"805"
"id":15,
"img":{
    "src":"../img/iphoneX/iphoneX-black.jpg",
    "alt":"Iphone X"
   },
"model":"iPhone X",
"color": "Black",
"price":"823"
"id":16,
"img":{
    "src":"../img/iphoneX/iphoneX-white.jpg",
    "alt":"Iphone X"
"model":"iPhone X",
"cloro": "White",
"price":"880"
```

3.4.2 menu.json

```
},
{
    "href":"author.html",
    "text":"Author"
},
{
    "href":"chart.html",
    "text":"Chart"
}
```