VISOKA ŠKOLA STRUKOVNIH STUDIJA ZA INFORMACIONE I KOMUNIKACIONE TEHNOLOGIJE

DOKUMENTACIJA

http://asmobile.netlify.app/

Web Programiranje 2

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Smer: Internet tehnologije

Modul: Web programiranje

Predmet: Web programiranje 2

Sadrzaj

Uvod 3

1. **Korišcene tehnologije / programski jezici** 3
2. **Opis funkcionalnosti** 3

3. Template 4

Organizacija 5

1. **Organizaciona šema** 5
2. **Mapa sajta** 6
3. **Opis funkcionalnosti I slike stranica** 7

Kodovi 14

1. **HTML** 14
2. **CSS** 25
3. **JavaScript** 41
4. **JSON** 57

Uvod

1. Korišćene tehnologije / programski jezici

- HTML
- CSS
- Bootstrap
- JavaScript
- JQuery
- JSON
- AJAX
- XML(Sitemap)
- Visual Studio Code

2. Opis funkcionalnosti

- Dinamičko ispisivanje navigacionih menija (u header-u i footeru-u) sa podacima dohvaćenim iz JSON-a pomoću AJAX-a
- Meni je prilagođen za sve vrste uređaja tako da se na manjim ekranima prikazuje „hamburger”
- Dinamičko ispisivanje linkova do socijalnih mreža u footeru sa podacima dohvaćenim iz JSON-a
- Dinamičko ispisivanje slika u slideru sa podacima dohvaćenim iz JSON-a
- Dinamičko ispisivanje svih proizvoda sa podacima dohvaćenim iz JSON-a

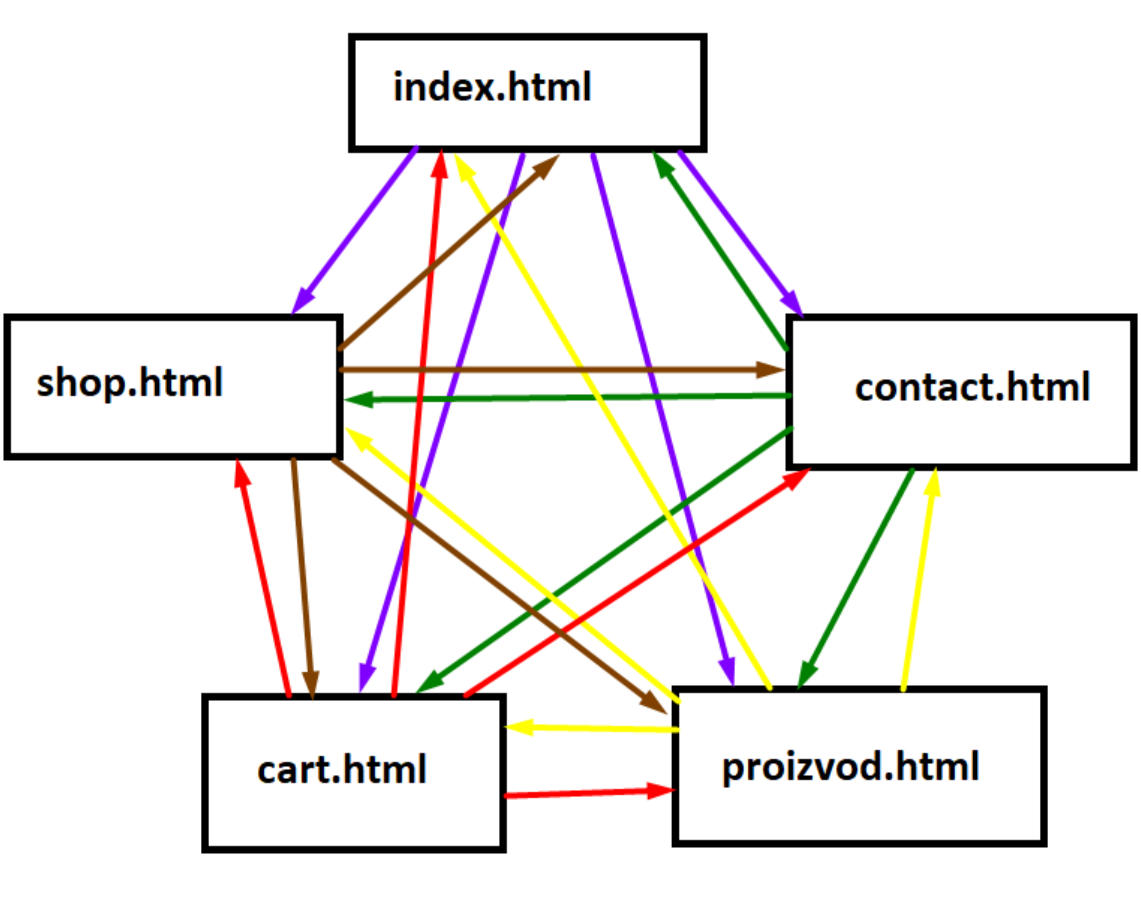
- Filtriranje I sortiranje mobilnih telefona
- Sortiranje po nazivu I ceni (rastuće/opadajuće)
- Filtriranje u vidu pretrage I price range-a
- Checkbox-ovi za filtriranje(brend,color) dinamički ispisani sa podacima iz JSON-a
- Dodavanje uređaja u korpu pomoću local storage-a
- Ispisivanje svih uređaja trenutno u korpi i mogućnost da se uređaji uklone iz korpe ili da se poveća/smanji kolicina
- Provera kontakt forme sa regularnim izrazima
- Sajt je kompletno responsive

3. Template

- Za izradu sajta nije korišćen template

Organizacija

1. Organizaciona šema



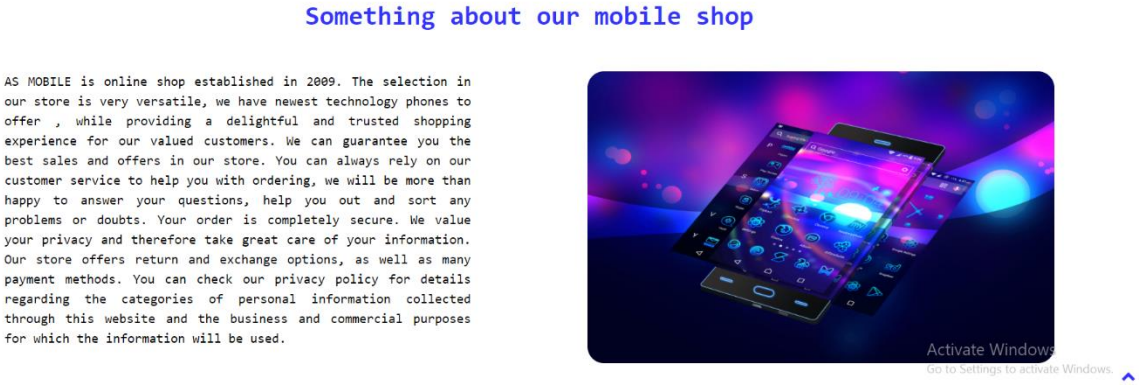
2. Mapa sajta

```
<urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">
    <url>
        <loc>https://asmobile.netlify.app/index.html/</loc>
        <lastmod>2021-03-10</lastmod>
        <changefreq>weekly</changefreq>
        <priority>0.8</priority>
    </url>
    <url>
        <loc>https://asmobile.netlify.app/shop.html/</loc>
        <lastmod>2021-03-10</lastmod>
        <changefreq>weekly</changefreq>
        <priority>0.9</priority>
    </url>
    <url>
        <loc>https://asmobile.netlify.app/contact.html/</loc>
        <lastmod>2021-03-10</lastmod>
        <changefreq>monthly</changefreq>
        <priority>0.8</priority>
    </url>
    <url>
        <loc>https://asmobile.netlify.app/cart.html/</loc>
        <lastmod>2021-03-10</lastmod>
        <changefreq>monthly</changefreq>
        <priority>0.8</priority>
    </url>
    <url>
        <loc>https://asmobile.netlify.app/proizvod.html/</loc>
        <lastmod>2021-03-10</lastmod>
        <changefreq>monthly</changefreq>
        <priority>0.5</priority>
    </url>
</urlset>
```

3. Opis funkcionalnosti I slike stranica

- Na svim stranicama

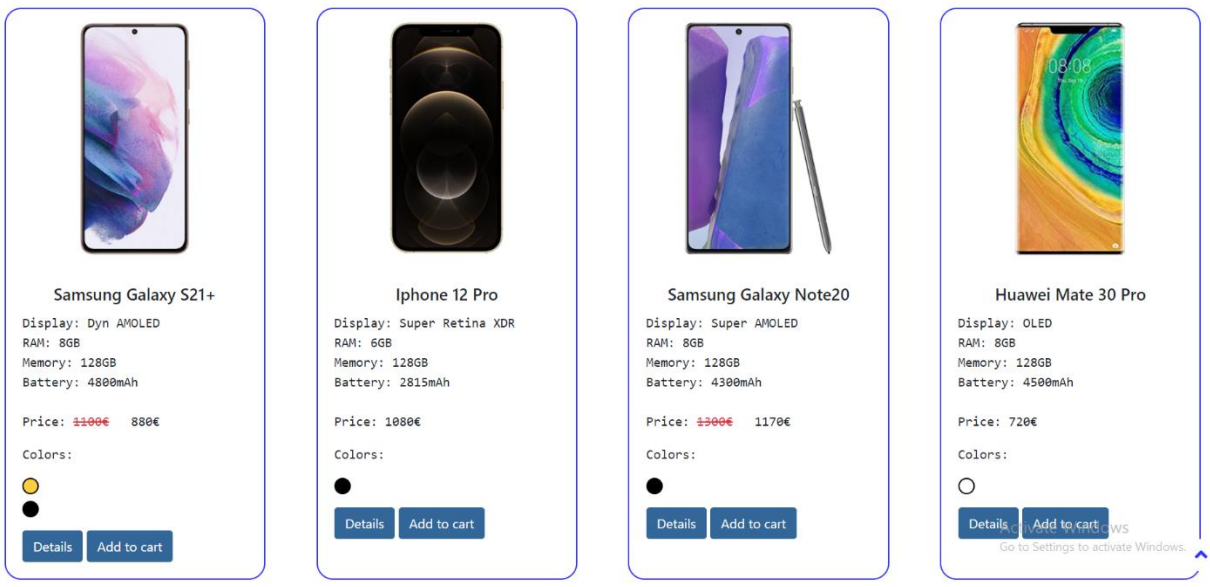
- Dinamičko učitavanje menija iz JSON-a pomoću AJAX-a



- Dinamičko ispisivanje “About” dela stranice

- Dinamičko učitavanje footera iz JSON-a pomoću AJAX-a

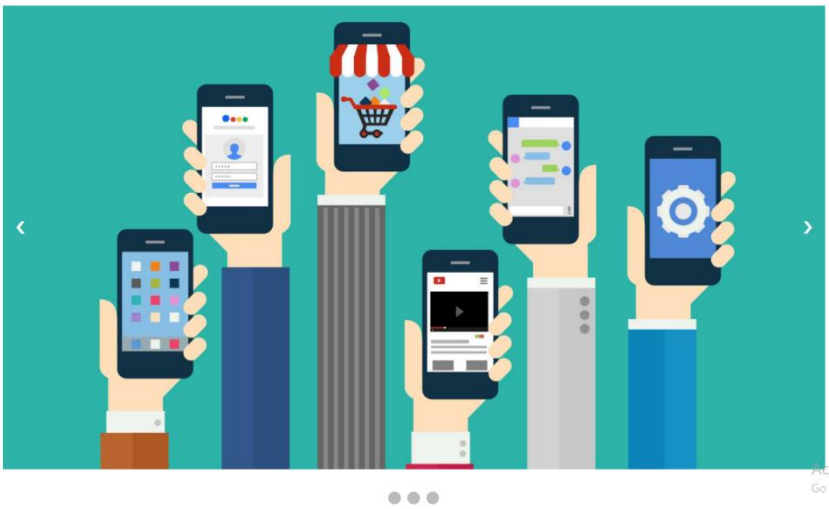
- index.html



- Dinamičko učitavanje I ispis “top modela”

- Klikom na dugme Details prelazi se na stranicu gde se otvara samo taj proizvod

- Klikom na dugme Add to cart proizvod se ubacuje u korpu



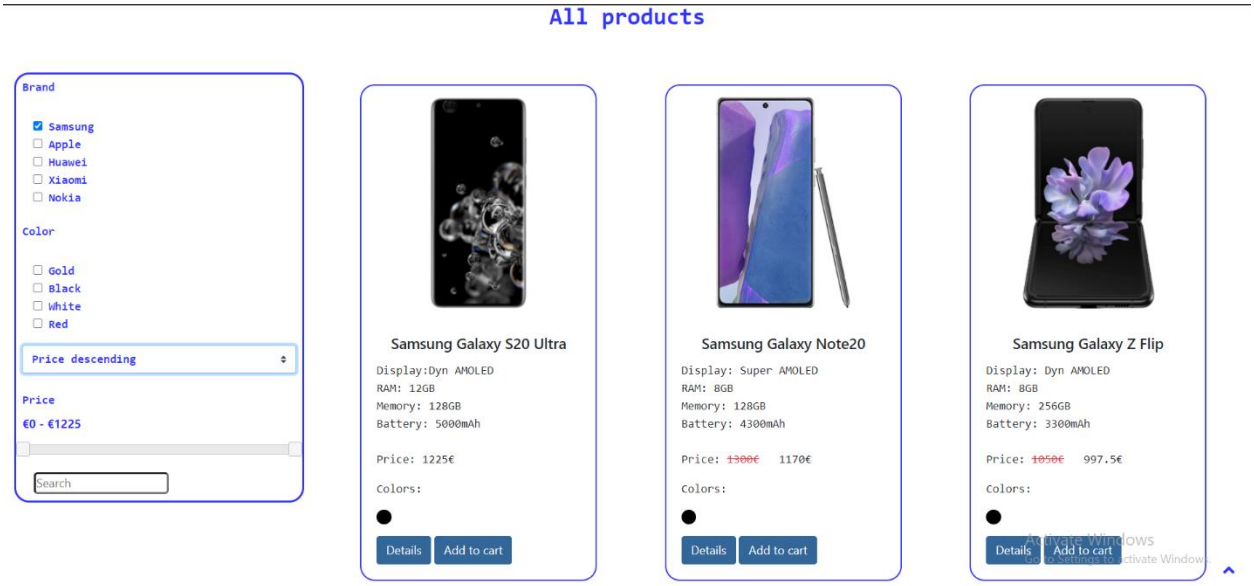
Activate Windows
Go to Settings to activate Windows.

- Slider čije se slike smenjuju na 5 sekundi I učitane su iz JSON-a

- proizvod.html

- Dinamičko učitavanje I ispis odredjenog proizvoda na čije “Details” dugme je korisnik kliknuo

- shop.html



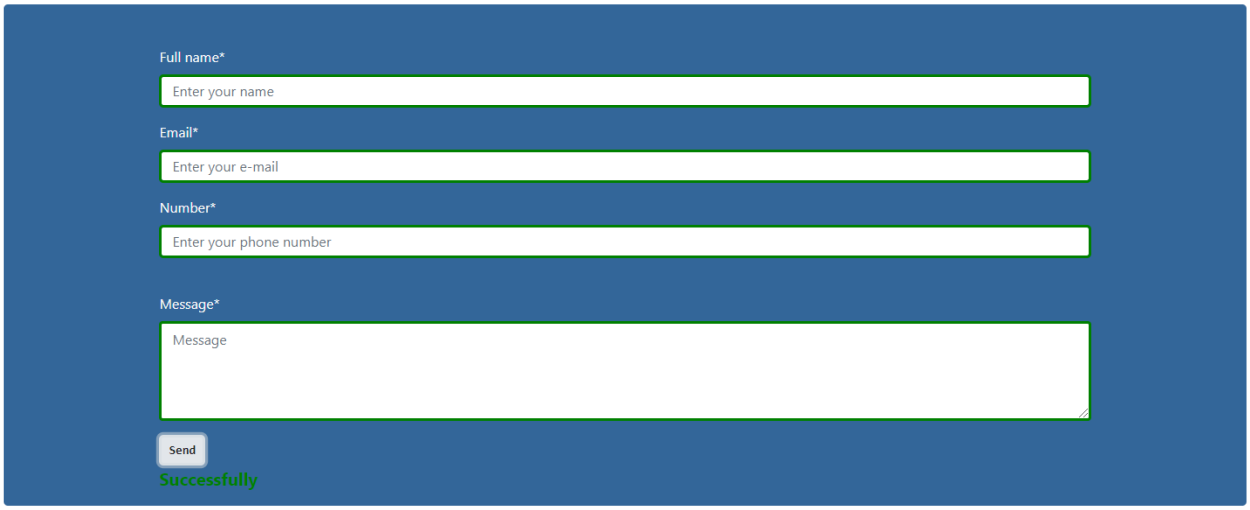
- Dinamičko učitavanje I ispis svih proizvoda iz JSON-a pomoću AJAX-a
- Dinamičko učitavanje I ispis elemenata za filtriranje, sortiranje I pretragu iz JSON-a takodje pomoću AJAX-a
- Klikom na neki od checkbox-ova izvršiće se filtriranje po boji ili brendu u zavisnosti na šta se klikne
- Odabirom nekog parametra iz liste izvršiće se sortiranje po ceni ili nazivu u zavisnosti na šta se odabere
- Ako korisnik unese nešto u “search” polje u zavisnosti od unetog teksta izvršiće se filtriranje

- contact.html

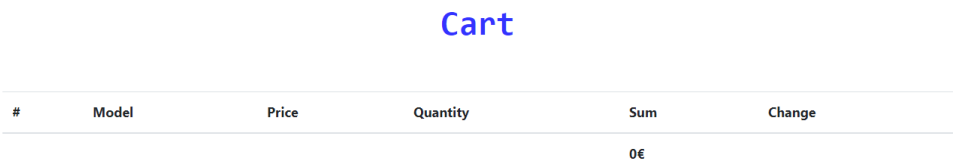
- Na ovoj stranici se prikazuje forma za slanje poruke. Validacija je urađena u javascriptu

- Ako korisnik nije lepo uneo podatke pojaviće mu se obaveštenje o grešci (koje polje nije ispravno popunio) kao I šablon koji mu sugeriše kako to ispravno da uradi.

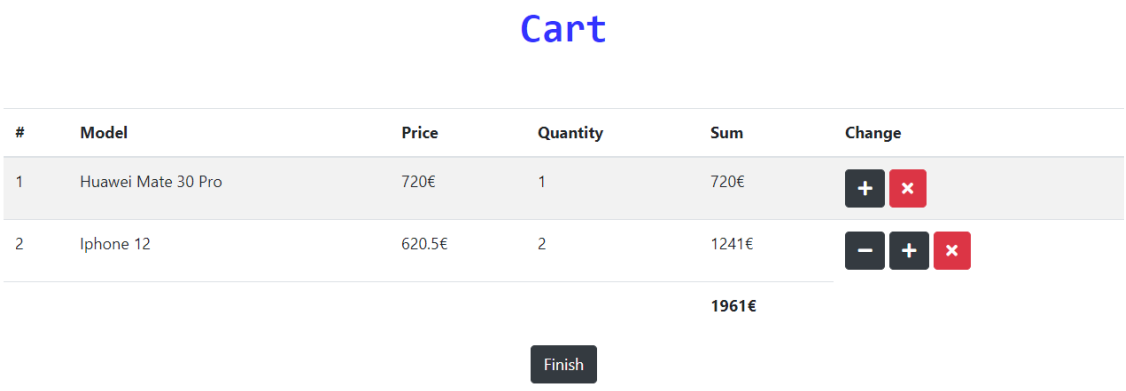
- Ako je korisnik ispravno uneo podatke pojaviće se obaveštenje da je na pravi način popunio formu



- cart.html



- Izgled korpe kada je prazna



- Izgled korpe kad ima nešto u njoj

- Dodati proizvodi se čitaju iz localstorage-a i ispisuju sa odredjenim podacima

- Postoji opcija povećavanja I smanjivanja količine klikom na dugme + / -

- Klikom na dugme X obrisaće se samo taj proizvod iz korpe na čije se dugme kliknulo

- U zavisnosti od količine i cene ispisuje se i ukupna cena za taj proizvod kao i ukupna cena svih proizvda u korpi

- Kad korisnik hoće da završi sa kupovinom klikom na dugme “finish” sav sadržaj iz korpe se briše I korisnik dobija obaveštenje

Kodovi

1. HTML

- **index.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="On this page you can see some of the most p
opular mobiles"/>
    <meta name="keywords" content="home, top, about, popular, bestsellers"/>
    <meta name="author" content="Aleksa Strugarević"/>
    <title>AS mobile</title>
    <link rel="shortcut icon" href="assets/img/logo.ico"/>
```

```
    <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet"/>
    <link href="assets/css/style.css" rel="stylesheet"/>
    <link href="assets/css/gallery.css" rel="stylesheet"/>
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/
all.css"
          integrity="sha384-
50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="an
onymous">
</head>
<body>
<div id="snackbar"></div>
<div id="btnTop">
    <button class="topBtn tBtn"><a href="#pozadina"><i class="fas fa-angle-
up"></i></a></button>
</div>
<div id='mobileMenu' class="nav">
    <i class='fa fa-bars ml-3 mt-3' id="hamb" style="color: white;font-
size: 40px"></i>
    <div id="mySidenav" class="sidenav">
        <a href="javascript:void(0)" class="closebtn" id="hambClose">&times;</a>
    </div>
</div>
<div id='menju' class="nav"></div>
<div id="pozadina">
    <h1 class="tekst">Welcome to the ASmobile shop</h1>
    <p class="down">Most popular models</p>
    <a href="#best"><i class="fas fa-chevron-down"></i></a>
</div>


<div id="about">

</div>
<h2 id="best" class="f p-4">Bestsellers</h2>
<div id="proizvodi" class="row justify-content-around">

</div>
<div class="slideshow-container str" id="gallery">
    <a class="prev str" onclick="plusSlides(-1)">&#10094;</a>
    <a class="next str" onclick="plusSlides(1)">&#10095;</a>
</div>
<br>

<div style="text-align:center" id="galleryDots">
</div>
```

```
<div id="footerMenu" class="foot mt-5">
    <h3 class="usl">
        Useful links
    </h3>
</div>
<div id="useful" class="use">
</div>
<div id="cpr">
    <p>Copyright by Aleksa Strugarević &copy</p>
</div>


<script src="assets/vendor/jquery/jquery.min.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/js/main.js"></script>
<script src="assets/js/products.js"></script>
<script src="assets/js/slide.js"></script>
<script src="assets/js/productDisplay.js"></script>
<script src="assets/js/productCart.js"></script>

</body>
</html>
```

- **proizvid.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="On this page you can see every single phone
"/>
    <meta name="keywords" content="model, phone, color, brand"/>
    <meta name="author" content="Aleksa Strugarević"/>
    <title>AS mobile</title>
    <link rel="shortcut icon" href="assets/img/logo.ico"/>
    <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet"/>
    <link href="assets/css/style.css" rel="stylesheet"/>
```

```
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/all.css"
          integrity="sha384-50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="anonymous">
</head>
<body>
<div id="btnTop">
    <button class="topBtn tBtn"><a href="#pozadina"><i class="fas fa-angle-up"></i></a></button>
</div>
<div id='mobileMenu' class="nav">
    <i class='fa fa-bars ml-3 mt-3' id="hamb" style="color: white;font-size: 40px"></i>
    <div id="mySidenav" class="sidenav">
        <a href="javascript:void(0)" class="closebtn" id="hambClose">&times;</a>
    </div>
</div>
<div id='menju' class="nav"></div>
<div id="pozadina">
    <h1 class="tekst">Welcome to the ASmobile shop</h1>
    <p class="down">Your mobile </p>
    <a href="#oneprod"><i class="fas fa-chevron-down"></i></a>
</div>

<div id="snackbar"></div>
<div id="about">

</div>

<h1 id="oneprod" class="f">Details</h1>
<div id="proizvod" class="row justify-content-center">

</div>

<div id="footerMenu" class="foot mt-5">
    <h3 class="usl">
        Useful links
    </h3>
</div>
<div id="useful" class="use">
</div>
<div id="cpr">
    <p>Copyright by Aleksa Strugarević &copy</p>
</div>
```

```
<script src="assets/vendor/jquery/jquery.min.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/js/main.js"></script>
<script src="assets/js/product.js"></script>
<script src="assets/js/productCart.js"></script>

</body>
</html>
```

- **cart.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="On this page you can finish your purchase"/
>
    <meta name="keywords" content="cart, finish, purchase, buy"/>
    <meta name="author" content="Aleksa Strugarević"/>
    <title>AS mobile</title>
    <link rel="shortcut icon" href="assets/img/logo.ico"/>
    <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet"/>
    <link href="assets/css/style.css" rel="stylesheet"/>
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/
all.css"
          integrity="sha384-
50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="an
onymous">
</head>
<body>
<div id="snackbar"></div>
<div id="btnTop">
    <button class="topBtn tBtn"><a href="#pozadina"><i class="fas fa-angle-
up"></i></a></button>
</div>
<div id='mobileMenu' class="nav">
    <i class='fa fa-bars ml-3 mt-3' id="hamb" style="color: white;font-
size: 40px"></i>
```

```
    <div id="mySidenav" class="sidenav">
        <a href="javascript:void(0)" class="closebtn" id="hambClose">&times;</a>
    </div>
</div>
<div id='menju' class="nav"></div>
<div id="pozadina">
    <h1 class="tekst">Welcome to the ASmobile shop</h1>
    <p class="down">Check cart</p>
    <a href="#cart"><i class="fas fa-chevron-down"></i></a>
</div>
<div id="about">

</div>
<h1 id="cartt" class="f">Cart</h1>

<div class="row justify-content-center" >
    <div class="col-12 col-lg-8 px-0 mt-5">
        <table class="table table-striped">
            <thead>
            <tr>
                <th scope="col">#</th>
                <th scope="col">Model</th>
                <th scope="col">Price</th>
                <th scope="col">Quantity</th>
                <th scope="col">Sum</th>
                <th scope="col">Change</th>
            </tr>
            </thead>
            <tbody id="cart">
            </tbody>
            <tfoot>
            <tr>
                <td colspan="4"></td>
                <td id="total"></td>
            </tr>
            </tfoot>
        </table>
        <div class="row justify-content-center totalM">
            <p>Total: <span id="totalM"></span></p>
        </div>
        <div class="row justify-content-center">
            <button class="btn btn-dark" id="confirm">Finish</button>
        </div>
    </div>
</div>
```

```
<div id="footerMenu" class="foot mt-5">
    <h3 class="usl">
        Useful links
    </h3>
</div>
<div id="useful" class="use">
</div>
<div id="cpr">
    <p>Copyright by Aleksa Strugarević &copy</p>
</div>
<script src="assets/vendor/jquery/jquery.min.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/js/main.js"></script>
<script src="assets/js/cart.js"></script>


</body>
</html>
```

- **contact.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="On this page you can contact us"/>
    <meta name="keywords" content="contact, mail, message, number"/>
  <meta name="author" content="Aleksa Strugarević"/>
    <title>AS mobile</title>
    <link rel="shortcut icon" href="assets/img/logo.ico"/>
    <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet" /
>
    <link href="assets/css/style.css" rel="stylesheet" />
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/
all.css"
          integrity="sha384-
50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="an
onymous">
```

```
</head>
<body>
    <div id="btnTop">
        <button class="topBtn tBtn"><a href="#pozadina"><i class="fas fa-angle-
up"></i></a></button>
    </div>
    <div id='mobileMenu' class="nav">
      <i class='fa fa-bars ml-3 mt-3' id="hamb" style="color: white;font-
size: 40px"></i>
      <div id="mySidenav" class="sidenav">
          <a href="javascript:void(0)" class="closebtn" id="hambClose">&times;</a
>
      </div>
  </div>
    <div id ='menju' class="nav">

    </div>
    <div id="pozadina">
        <h1 class="tekst">Welcome to the ASmobile shop</h1>
        <p class="down">Contact us</p>
        <a href="#contact"><i class="fas fa-chevron-down"></i></a>
    </div>
    <div id="about">

    </div>
    <h1 id="contact" class="f">Contact us</h1>
    <div class="container-xl-fluid w-75 poz mx-auto rounded-lg mt-5 mb-5">
        <form name="formularKontakt" id="formularKontakt" action="#">
          <div class="form-group w-75 mx-auto pt-5">
            <label for="exampleFormControlSelect1" class="text-
light">Full name*</label>
            <input type="text" class="form-
control" name ="name" id="name1" placeholder="Enter your name">
            <span id="name1Greska" class="sakrij greska">Incorrect name (e.g. Ale
ksa Strugarević)</span>
          </div>
          <div class="form-group w-75 mx-auto">
            <label for="exampleFormControlInput1" class="text-
light">Email*</label>
            <input type="email" class="form-
control" name ="email" id="email1" placeholder="Enter your e-mail">
            <span id="email1Greska" class="sakrij greska">Incorrect email (e.g. a
leksa.strugarevic@gmail.com)</span>
          </div>
          <div class="form-group w-75 mx-auto">
```

```
            <label for="exampleFormControlSelect1" class="text-
light">Number*</label>
            <input type="text" class="form-
control" name ="phone" id="phone"placeholder="Enter your phone number">
            <span id="phoneGreska" class="sakrij greska">Incorrect phone number (
e.g. 06X XXX XXXX)</span>
          </div>
            <div class="form-group w-75 mx-auto pt-4">
              <label for="exampleFormControlTextarea1" class="text-
light">Message*</label>
              <textarea class="form-
control" name ="message" id="message" placeholder="Message"rows="4"></textarea>
              <span id="messageGreska" class="sakrij greska">Message field must n
ot be empty and must begin with a capital letter</span>
            </div>
            <div class="form-group w-75 mx-auto pb-3">
              <input type="submit" id="idbtn" class="btn btn-light f  btn-
sm" value="Send"/><span class=" sakrij mt-3" id="forma2">Successfully </span>
            </div>
        </div>

        <div id="footerMenu" class="foot mt-5">
          <h3 class="usl">
              Useful links
          </h3>
      </div>
      <div id="useful" class="use">
      </div>
      <div id="cpr">
          <p>Copyright by Aleksa Strugarević &copy</p>
      </div>


    <script src="assets/vendor/jquery/jquery.min.js"></script>
    <script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
    <script src="assets/js/main.js"></script>
    <script src="assets/js/contact.js"></script>
</body>
</html>
```

- **shop.html**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="On this page you can see all ours phones an
d buy someone"/>
    <meta name="keywords" content="samsung, nokia, iphone, xiaomi, huawei"/>
    <meta name="author" content="Aleksa Strugarević"/>
    <title>AS mobile</title>
    <link rel="shortcut icon" href="assets/img/logo.ico"/>
    <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet"/>
    <link rel="stylesheet" href="https://code.jquery.com/ui/1.12.1/themes/base/jq
uery-ui.css">
    <link href="assets/css/style.css" rel="stylesheet"/>
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/
all.css"
          integrity="sha384-
50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="an
onymous">

</head>
<body>
<div id="snackbar"></div>
<div id="btnTop">
    <button class="topBtn tBtn"><a href="#pozadina"><i class="fas fa-angle-
up"></i></a></button>
</div>
<div id='mobileMenu' class="nav">
    <i class='fa fa-bars ml-3 mt-3' id="hamb" style="color: white;font-
size: 40px"></i>
    <div id="mySidenav" class="sidenav">
        <a href="javascript:void(0)" class="closebtn" id="hambClose">&times;</a>
    </div>
</div>
<div id='menju' class="nav"></div>
<div id="pozadina">
    <h1 class="tekst">Welcome to the ASmobile shop</h1>
    <p class="down">Check our mobiles</p>
    <a href="#all"><i class="fas fa-chevron-down"></i></a>
```

```
</div>
<div id="about"></div>

<h2 id="all" class="p-5 text-center f">All products</h2>

<div class="row">
    <div class="col-12 col-lg-3">
        <div id="filtrr">
            <h6 class="fil">Brand</h6> </br>
            <form action="#" id="modeli" class="fil">

            </form>
            <h6 class="fil mt-4">Color</h6> </br>
            <form action="#" id="boje" class="fil">

            </form>
            <select class="custom-select f mt-3 mb-3" id="sort">
                <option value="asc">Price ascending</option>
                <option value="desc">Price descending</option>
                <option value="nazivAsc">Name ascending</option>
                <option value="nazivDesc">Name descending</option>
            </select>
            <p>
                <label for="amount" class="fil mt-2">Price</label> </br>
                <input type="text" id="amount" readonly style="border:0; color:#3
333ff; font-weight:bold;">
            </p>
            <div id="slider-range"></div>
            <form>
                <input type="text" id="pretraga" class="mt-4 ml-
3" name="pretraga" placeholder="Search"/>
            </form>
        </div>
    </div>
    <div class="col-12 col-lg-9">
        <div id="proizvodi" class="row justify-content-center">

        </div>
    </div>
</div>
<div id="footerMenu" class="foot mt-5">
    <h3 class="usl">
        Useful links
    </h3>
</div>
```

```
<div id="useful" class="use">
</div>
<div id="cpr">
    <p>Copyright by Aleksa Strugarević &copy</p>
</div>



<script src="https://code.jquery.com/jquery-1.12.4.js"></script>
<script src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/js/main.js"></script>
<script src="assets/js/shop.js"></script>
<script src="assets/js/productCart.js"></script>
<script src="assets/js/productDisplay.js"></script>
</body>
</html>
```

2. CSS

- **style.css**

```
* {
    margin: 0px;
    padding: 0px;
}

.row {
    display: flex;
    flex-wrap: wrap;
    margin-right: 0px;
    margin-left: 0px;
}

.nav {
    width: 100%;
    display: inline;
    float: left;
}
```

```css
.nav ul {
    display: flex;
}

.nav li {
    font-family: 'Roboto Mono', monospace;
    font-weight: bold;
    font-size: 25px;
    padding: 25px;
    list-style-type: none;
}

.nav li a {
    text-decoration: none;
    color: #fff;
}

#pozadina {
    width: 100%;
    height: 100vh;
    background-image: url("../img/poz.jpg");
    background-position: center;
    background-repeat: no-repeat;
    background-size: cover;
    padding-top: 200px !important;
}

#pozadina a {
    font-size: 50px;
    color: #ffffff;
    opacity: 70%;
    padding-top: 20px;
    display: flex;
    justify-content: space-around;
    text-decoration: none;
}

.tekst {
    color: #3333ff;
    text-align: center;
    padding: 20px;
    height: 100px;
    background-color: #ffffff;
    opacity: 70%;
```

```
    margin-top: 110px;
    font-size: 50px;
    font-weight: bold;
    font-family: 'Roboto Mono', monospace;
}

.down {
    color: #3333ff;
    text-align: center;
    padding: 15px;
    width: 400px;
    margin: 0px auto;
    height: 60px;
    background-color: #fff;
    opacity: 70%;
    margin-top: 11%;
    font-size: 20px;
    font-weight: bold;
    font-family: 'Roboto Mono', monospace;
    border-radius: 20px;
}

.sidenav {
    width: 0;
    position: fixed;
    z-index: 1;
    top: 0;
    left: 0;
    background-color: rgb(51, 102, 153);
    overflow-x: hidden;
    transition: 0.5s;
    padding-top: 30px;
}

.sidenav a {
    padding: 8px 8px 8px 32px;
    text-decoration: none;
    font-size: 15px;
    color: #fff;
    display: block;
    transition: 0.3s;
}

.sidenav a:hover {
    color: rgba(0, 0, 0, 0.9);
```

```
}

.sidenav .closebtn {
    position: absolute;
    top: 0;
    right: 25px;
    font-size: 26px;
    margin-left: 50px;
}

#about {
    text-align: center;
    padding: 50px;
    color: #3333ff;

}

.about {
    display: flex;
    justify-content: space-around;
    flex-wrap: wrap;
    align-items: center;
    padding-top: 40px;
    width: 100%;
    margin: 0px auto;
    font-family: 'Roboto Mono', monospace;
    color: #000;
}

.about p {
    text-align: justify;
    font-weight: 500;
}

.about img, .saus {
    width: 40%;
    border-radius: 20px;
}

.font {
    font-family: 'Roboto Mono', monospace;
}

.f {
    font-weight: bold;
```

```
    font-family: 'Roboto Mono', monospace;
    color: #3333ff;
    display: flex;
    justify-content: center;
}

.fil {
    font-weight: bold;
    font-family: 'Roboto Mono', monospace;
    color: #3333ff;
}

.tBtn {
    background-color: #ffffff;
    border-radius: 50%;
    display: inline-block;
    cursor: pointer;
    font-size: 13px;
    padding: 4px 10px;
    text-decoration: none;
}

#btnTop {
    position: fixed;
    bottom: 20px;
    right: 10px;
    z-index: 99;
}

#btnTop i {
    font-size: 25px;
}

#btnTop a {
    color: #3333ff;
}

.topBtn {
    border: 3px solid #ffffff !important;
}

.bl {
    border: 2px solid #3333ff;
    border-radius: 20px;
}
```

```css
.dugme {
    background-color: rgb(51, 102, 153);
    color: #fff;
}

#modeli {
    color: #3333ff;
    display: block;
}

#boje {
    color: #3333ff;

}

#filtrr {
    border: 3px solid #3333ff;
    border-radius: 20px;
    padding: 8px;
}

#colr {
    display: flex;
    justify-content: space-around;
}

.squad {
    width: 20px;
    height: 20px;
    border-radius: 10px;
    border: 2px solid #000;
}

.poz {
    background-color: rgb(51, 102, 153);

}

.usl {
    color: #fff;
    text-align: center;
    padding-top: 15px;
    font-weight: bold;
    font-family: 'Roboto Mono', monospace;
```

```
}

.foot {
    background-color: #3333ff;
    height: 130px;
}

.foot ul {
    list-style-type: none;
    display: flex;
    justify-content: space-around;

}

.foot ul li {
    margin-top: 35px;
}

.foot a {
    color: #fff;
    text-decoration: none;
    font-size: 20px;
    font-family: 'Roboto Mono', monospace;
}

.use {
    background-color: #3333ff;
    height: 100px;
}

.use ul {
    list-style-type: none;
    display: flex;
    justify-content: space-around;

}

.use ul li {
    margin-top: 35px;
}

.use a {
    color: #fff;
    text-decoration: none;
    font-size: 20px;
```

```
    font-family: 'Roboto Mono', monospace;
}

#cpr {
    width: 100%;
    height: 30px;
    background-color: #3333ff;
}

#cpr p {
    color: #fff;
    font-size: 15px;
    text-align: center;
}

.slideshow-container {
    padding-top: 70px;
}

.sakrij {
    display: none;
}

.prikazi {

    color: green;
    font-size: 20px;
    font-weight: bold;
    display: inline;
}

.greska {
    color: #ff0000;
    font-weight: bold;
}

.form-control {

    color: rgba(0, 0, 0, 0.9) !important;
}

input {
    border-width: 3px !important;
    border-radius: 5px !important;
}
```

```css
#total{
    font-weight: bold;
}
.totalM {
    display: none;
}

#snackbar {
    visibility: hidden;
    min-width: 250px;
    margin-left: -125px;
    background-color: #333;
    color: #fff;
    text-align: center;
    border-radius: 2px;
    padding: 16px;
    position: fixed;
    z-index: 1;
    left: 50%;
    top: 30px;
    font-size: 17px;
}

#snackbar.show {
    visibility: visible;
    -webkit-animation: fadein 0.5s, fadeout 0.5s 2.5s;
    animation: fadein 0.5s, fadeout 0.5s 2.5s;
}

@media screen and (max-width: 1300px) {
    .about p {
        font-size: 14px;
    }

}

@media screen and (max-width: 1103px) {
    .about p {
        font-size: 13px;
        padding-right: 30px;
        font-weight: 400;
    }

    .about img, .saus {
        width: 50%;
```

```
}

table, thead, tbody, th, td, tr {
    display: block;
}

thead tr {
    position: absolute;
    top: -9999px;
    left: -9999px;
}
.totalM {
    display: flex !important;
    font-weight: bold;
}
tfoot, #total {
    display: none;
}

tr {
    margin: 0 0 2rem 0;
}

td {
    border: none;
    border-bottom: 1px solid #eee;
    position: relative;
    padding-left: 50% !important;
    padding-top: 8px !important;
    padding-bottom: 8px !important;
}

td:last-child {
    padding-left: 0 !important;
    display: flex;
    flex-direction: row;
    justify-content: center;
}

td:last-child button {
    margin: 0 4px;
}

td:before {
    position: absolute;
```

```
        top: 0;
        left: 6px;
        width: 45%;
        padding-right: 10px;
        white-space: nowrap;
        padding-top: 8px;
        padding-bottom: 8px;
    }

    td:nth-of-type(1):before {
        content: "#";
    }

    td:nth-of-type(2):before {
        content: "Name";
    }

    td:nth-of-type(3):before {
        content: "Price";
    }

    td:nth-of-type(4):before {
        content: "Quantity";
    }

    td:nth-of-type(5):before {
        content: "Sum";
    }
}

@media screen and (max-width: 850px) {
    .about p {
        font-size: 15px;
        padding-bottom: 20px;
        padding-right: 0px;
    }

    .about img, .saus {
        width: 80%;
    }

    .tekst {
        padding: 29px;
        height: 100px;
        margin-top: 110px;
```

```
        font-size: 34px;
    }
}

@media screen and (max-width: 680px) {
    .about p {
        font-size: 13px;
        font-weight: 500;
    }

    .foot {
        height: 410px;
    }

    .foot ul {
        display: block;
        text-align: center;
        padding-top: 3px;
    }

    .foot ul li {
        margin-top: 25px;
    }

    .use {
        height: 200px;
    }

    .use ul {
        display: block;
        text-align: center;
        padding-top: 3px;
    }

    .use ul li {
        margin-top: 25px;
    }

    .use a {

        font-size: 17px;
    }

    .tekst {
        padding: 25px;
```

```
        height: 80px;
        font-size: 25px;
    }
}

@media screen and (min-width: 600px) {
    #mobileMenu {
        display: none;
    }
}

@media screen and (max-width: 600px) {
    #menju {
        display: none;
    }

    #mobileMenu #mySidenav ul li {
        padding: 8px;
    }

    #mobileMenu #mySidenav ul {
        flex-direction: column;
    }

    .about p {
        font-size: 14px;
    }

    .about img, .saus {
        width: 100%;
    }
}

@media screen and (max-width: 450px) {
    #about {
        padding: 20px;
    }

    .about p {
        font-size: 12px;
    }

    .tekst {
        padding: 30px;
        height: 80px;
```

```
        font-size: 20px;
    }

    .down {

        padding: 17px;
        width: 300px;
        font-size: 17px;
        border-radius: 10px;
    }
}

@media screen and (max-height: 450px) {
    .sidenav {
        padding-top: 15px;
        width: 250px !important;
    }

    .sidenav a {
        font-size: 18px;
    }
}



@-webkit-keyframes fadein {
    from {
        top: 0;
        opacity: 0;
    }
    to {
        top: 30px;
        opacity: 1;
    }
}

@keyframes fadein {
    from {
        top: 0;
        opacity: 0;
    }
    to {
        top: 30px;
        opacity: 1;
    }
```

```
}

@-webkit-keyframes fadeout {
    from {
        top: 30px;
        opacity: 1;
    }
    to {
        top: 0;
        opacity: 0;
    }
}

@keyframes fadeout {
    from {
        top: 30px;
        opacity: 1;
    }
    to {
        top: 0;
        opacity: 0;
    }
}
```

- **gallery.css**

```
* {box-sizing:border-box}

.slideshow-container {
    max-width: 1000px;
    position: relative;
    margin: auto;
}

.mySlides {
    display: none;
}

.prev, .next {
```

```
    cursor: pointer;
    position: absolute;
    top: 50%;
    width: auto;
    margin-top: -9px;
    padding: 16px;
    color: white;
    font-weight: bold;
    font-size: 20px;
    transition: 0.6s ease;
    border-radius: 0 3px 3px 0;
    user-select: none;
    text-decoration: none !important;
}

.next {
    right: 0;
    border-radius: 3px 0 0 3px;
}

.prev:hover, .next:hover {
    background-color: rgba(0,0,0,0.8);
}

.dot {
    cursor: pointer;
    height: 15px;
    width: 15px;
    margin: 0 2px;
    background-color: #bbb;
    border-radius: 50%;
    display: inline-block;
    transition: background-color 0.6s ease;
}

.active, .dot:hover {
    background-color: #3333ff ;
}

.fade-custom {
    -webkit-animation-name: fade;
    -webkit-animation-duration: 1.5s;
    animation-name: fade;
    animation-duration: 1.5s;
}
```

```
@-webkit-keyframes fade-custom {
    from {opacity: .4}
    to {opacity: 1}
}

@keyframes fade-custom {
    from {opacity: .4}
    to {opacity: 1}
}
```

3. JavaScript

- **main.js**

```
$(document).ready(function () {
    var meni;
    $.ajax({
        url: "assets/data/menu.json",
        method: "GET",
        dataType: "json",
        success: function (data) {
            let headerLinks = data.filter(function (link) {
                return link.header
            });
            let footerLinks = data.filter(function (link) {
                return link.footer
            });
            let usefulLinks = data.filter(function (link) {
                return link.usefulLinks
            })

            let hamb = document.getElementById('hamb');

            ispisNavigacije(headerLinks, '#mySidenav');
            ispisNavigacije(headerLinks, '#menju');
            ispisNavigacije(footerLinks, '#footerMenu');
            ispisNavigacije(usefulLinks, '#useful');
            meni = data
        },
```

```
        error: function (err) {
            console.error(err)
        }
    })

    function ispisNavigacije(data, el) {
        let ispis = "<ul>";
        for (stavkaMenija of data) {
            ispis += `
            <li><a href="${stavkaMenija.href}"`;
            if (stavkaMenija.footer == true && stavkaMenija.header == false || st
avkaMenija.usefulLinks) {
                ispis += `target="_blank"`
            }
            ispis +=
                `>${stavkaMenija.stranica}</a></li>`
        }
        ispis += "</ul>"
        $(el).append(ispis);
    }

    var about = document.getElementById("about");
    var hAbo = document.createElement("h2");
    hAbo.setAttribute("class", "f")
    about.appendChild(hAbo);
    hAbo.innerHTML = "Something about our mobile shop";

    var textR = ["AS MOBILE is online shop established in 2009. The selection in
our store is very versatile, we have newest technology phones to offer , while pr
oviding a delightful and trusted shopping experience for our valued customers. We
 can guarantee you the best sales and offers in our store. You can always rely on
 our customer service to help you with ordering, we will be more than happy to an
swer your questions, help you out and sort any problems or doubts. Your order is
completely secure. We value your privacy and therefore take great care of your in
formation. Our store offers return and exchange options, as well as many payment
methods. You can check our privacy policy for details regarding the categories of
 personal information collected through this website and the business and commerc
ial purposes for which the information will be used."]
    var pics = ["slider1.jpg"];

    for (let i = 0; i < pics.length; i++) {
        var abo = document.createElement("div");
        abo.setAttribute("class", "about");
        about.appendChild(abo);
        var txt = document.createElement("div");
```

```
        txt.setAttribute("class", "saus");
        abo.appendChild(txt);
        var saus = document.createElement("p");
        saus.innerHTML = textR[i];
        txt.appendChild(saus);
        var pic = document.createElement("img");
        abo.appendChild(pic);
        pic.setAttribute("src", "assets/img/" + pics[i]);
        pic.setAttribute("alt", "About us");
    }


    let hamb = document.getElementById('hamb');
    if (hamb) {
        hamb.addEventListener('click', openNav)

        function openNav() {
            document.getElementById("mySidenav").style.width = "250px";
            let height = Math.round(document.getElementById('mySidenav').getBound
ingClientRect().height);
            document.getElementById('pozadina').style.paddingTop = height + 'px';
            console.log(document.getElementById('pozadina'));
        }

        document.getElementById('hambClose').addEventListener('click', closeNav)

        function closeNav() {
            document.getElementById("mySidenav").style.width = "0";
            document.getElementById('pozadina').style.paddingTop = '5%';
        }
    }


});
```

- **products.js**

```
let mob;

$(document).ready(function () {
```

```
 $.ajax({
        url: "assets/data/products.json",
        method: "get",
        dataType: "json",
        success: function (data) {
            ispisProducts(data.slice(0, 4), 3)
            mob = data
        },
         error: function (error) {
            console.log(error)
        }
 })
})
```

- **productDisplay.js**

```
function ispisProducts(produkti, col = 4) {
    let ispis = "";
    for (produkt of produkti) {
        ispis += `
        <div class = "row col-12 col-sm-6 col-xl-${col} d-flex justify-content-
center">
        <div class="card bl m-3" style="width: 20rem;">
        <img src="${produkt.slika.src}" class="card-img-
top" alt="${produkt.slika.alt}">
        <div class="card-body" id = "det">
            <h5 class="card-title text-
center">${produkt.brand.naziv}   ${produkt.naziv}</h5>
            <p class="card-text font">
                ${produkt.opis.ekran}<br/>${produkt.opis.ramM}</br>${produkt.opis
.interna}</br>${produkt.opis.bat}</br></br>`;
        if (produkt.popust) {
            ispis += `Price: <del class="text-
danger">${produkt.cena}&euro;</del>   ${odrediCenu(produkt.cena, prod
ukt.popust)}&euro;`;
        } else {
            ispis += `Price: ${produkt.cena}&euro;`;
        }
        ispis += `</p>`;
        ispis += `<div id="colr font"><p class="font">Colors:</p>`;
        for (let color of produkt.colors) {
```

```
            ispis += `<div class="squad mb-2" style="background-
color:${color.hex};">  </div>`
        }
        ispis += `</div>`;
        ispis += `<a href="proizvod.html?id=${produkt.id}" class="btn dugme mt-
2">Details</a>
                  <button onclick="addToCart(${produkt.id})" class="btn dugme mt-
2">Add to cart</button>
        </div>
    </div>
    </div>`;
    }
    $("#proizvodi").html(ispis);
}

function odrediCenu(cena, popust) {
    return cena - cena * popust / 100
}
```

- **product.js**

```
let mob = [];

$(document).ready(function () {
    $.ajax({
        url: "assets/data/products.json",
        method: "get",
        dataType: "json",
        success: function (data) {
            let url = new URL(window.location.href);
            let id = url.searchParams.get("id");
            prod = data.find(proizvod => proizvod.id == id);
            mob.push(prod);
            ispisJednogProizvoda(prod)

        },
        error: function (error) {
            console.log(error)
        }
    })
```

```
})

function ispisJednogProizvoda(produkt) {

    let ispis = `
        <div class="card bl" style="width: 30rem;">
        <img src="${produkt.slika.src}" class="card-img-
top" alt="${produkt.slika.alt}">
        <div class="card-body">
            <h5 class="card-title text-
center">${produkt.brand.naziv}   ${produkt.naziv}</h5>
            <p class="card-text font">
                ${produkt.opis.ekran}<br/>${produkt.opis.ramM}</br>${produkt.opis
.interna}</br>${produkt.opis.bat}</br></br>${produkt.opis.rez}</br>${produkt.opis
.in}<br/>${produkt.opis.cip}</br>${produkt.opis.kam}</br>${produkt.opis.sistem}</
br></br>`;
    if (produkt.popust) {
        ispis += `Price: <del class="text-
danger">${produkt.cena}&euro;</del>   ${odrediCenu(produkt.cena, prod
ukt.popust)}&euro;`;
    } else {
        ispis += `Price: ${produkt.cena}&euro;`;
    }
    ispis += `</p>`;

    ispis += `<div id="colr font"><p class="font">Colors:</p>`;
    for (let color of produkt.colors) {
        ispis += `<div class="squad mb-2" style="background-
color:${color.hex};">  </div>`
    }
    ispis += `</div>`;
    ispis += `<button onclick="addToCart(${produkt.id})" class="btn dugme mt-
2">Add to cart</button>
        </div>
    </div>
    `;
    $("#proizvod").html(ispis);
}


function odrediCenu(cena, popust) {
    return cena - cena * popust / 100
}
```

- **slide.js**

```
$(document).ready(function () {
    $.ajax({
        url: "assets/data/gallery.json",
        method: "get",
        dataType: "json",
        success: function (data) {
            ispisSlidera(data)
        },
        error: function (error) {
            console.log(error)
        }
    })
});
var slideIndex = 1;

function ispisSlidera(slike) {
    let ispis = '';
    let ispisTacaka = '';
    for (slika of slike) {
        ispis += `<div class="mySlides fade-custom">
        <img src="${slika.src}" alt="${slika.alt}" style="width: 100%;">
    </div>`;
        let index = slike.indexOf(slika);
        ispisTacaka += `
        <span class="dot" onclick="currentSlide(${index + 1})"></span>`
    }
    $('#gallery').prepend(ispis);
    $('#galleryDots').prepend(ispisTacaka);
    showSlides();
}

function plusSlides(n) {
    showSlides(slideIndex += n);
}

function currentSlide(n) {
    showSlides(slideIndex = n);
}

function showSlides() {
    let slides = $(".mySlides");
```

```
    for (let i = 0; i < slides.length; i++) {
        slides[i].style.display = "none";
    }
    slideIndex++;
    if (slideIndex > slides.length) {
        slideIndex = 1
    }
    slides[slideIndex - 1].style.display = "block";
    setTimeout(showSlides, 5000);
}
```

- **shop.js**

```
let mob;
let brendovi;
let minPrice = 0;
let maxPrice = 1200;
$(document).ready(function () {
    $.ajax({
        url: "assets/data/products.json",
        method: "get",
        dataType: "json",
        success: function (data) {
            mob = data;
            let najskupljiProizvod = mob.sort(function (x, y) {
                let xCena = x.popust ? odrediCenu(x.cena, x.popust) : x.cena;
                let yCena = y.popust ? odrediCenu(y.cena, y.popust) : y.cena;
                if (xCena > yCena) return -1;
                else if (xCena < yCena) return 1;
                else return 0;
            })[0];
            maxPrice = najskupljiProizvod.popust ? odrediCenu(najskupljiProizvod.
cena, najskupljiProizvod.popust) : najskupljiProizvod.cena;
            $(function () {
                $("#slider-range").slider({
                    range: true,
                    min: 0,
                    max: maxPrice,
                    values: [0, maxPrice],
```

```
                    slide: function (event, ui) {
                        minPrice = ui.values[0];
                        maxPrice = ui.values[1];
                        ispisZaShop(mob)
                        $("#amount").val("€" + ui.values[0] + " - €" + ui.values[
1]);
                    }
                });
                $("#amount").val("€" + $("#slider-range").slider("values", 0) +
                    " - €" + $("#slider-range").slider("values", 1));
            });
            ispisZaShop(data);
        },
        error: function (error) {
            console.log(error)
        }
    })
    $.ajax({
        url: "assets/data/brands.json",
        method: "get",
        dataType: "json",
        success: function (data) {
            ispisModela(data)
            brendovi = data;
        },
        error: function (error) {
            console.log(error)
        }
    })
    $.ajax({
        url: "assets/data/colors.json",
        method: "get",
        dataType: "json",
        success: function (data) {
            ispisBoja(data)
        },
        error: function (error) {
            console.log(error)
        }
    })
})

function ispisZaShop(produkti) {
    produkti = fitritanjePoBrendu(produkti);
    produkti = filtrirajPoPretrazi(produkti);
```

```
    produkti = sortiranjePoCeni(produkti);
    produkti = sortiranjePoNazivu(produkti);
    produkti = filtriranjePoBoji(produkti);
    produkti = sortiranjePoCeniRaspon(produkti);

    ispisProducts(produkti);
}

function odrediCenu(cena, popust) {
    return cena - cena * popust / 100
}


function ispisModela(nizModela) {
    let ispis = "<div class='row'>";
    for (model of nizModela) {
        ispis += `<div class="col-12">
            <input type="checkBox" class="mod mr-
2" value="${model.id}"/>${model.naziv}
            </div>`;
    }
    ispis += '</div>'
    $("#modeli").html(ispis);

    $(".mod").change(function () {
            ispisZaShop(mob);
        }
    )
}

function fitritanjePoBrendu(nizModela) {
    let filtriraniBrend = [];
    for (chb of $(".mod")) {
        if (chb.checked) {
            filtriraniBrend.push(parseInt(chb.value));
        }

    }
    if (filtriraniBrend.length > 0) {
        nizModela = nizModela.filter(function (model) {
            if (filtriraniBrend.includes(model.brand.id)) {
                return model;
            }
        })
    }
```

```
    return nizModela
}

function ispisBoja(nizModela) {
    let ispis = "<div class='row'>";
    for (model of nizModela) {
        ispis += `<div class="col-12">
           <input type="checkBox" class="boja mr-
2" value="${model.id}"/>${model.naziv}
           </div>
        `
    }
    ispis += '</div>'
    $("#boje").html(ispis);

    $(".boja").change(function () {
        ispisZaShop(mob)
    })
}

function filtriranjePoBoji(nizModela) {
    let filtriraniBoje = [];
    for (chb of $(".boja")) {
        if (chb.checked) {
            filtriraniBoje.push(parseInt(chb.value));
        }
    }
    if (filtriraniBoje.length > 0) {
        nizModela = nizModela.filter(function (model) {
            for (color of model.colors) {
                if (filtriraniBoje.includes(color.id)) {
                    return model;
                }
            }
        })
    }
    return nizModela
}

$("#pretraga").keyup(function () {
    ispisZaShop(mob);
})

function filtrirajPoPretrazi(nizModela) {
    nizModela = nizModela.filter(function (model) {
```

```
        let punNaziv = model.brand.naziv + " " + model.naziv;
        if (punNaziv.toUpperCase().includes($("#pretraga").val().toUpperCase()))
{
            return model;
        }
    })
    return nizModela;
}

$("#sort").change(function () {
    ispisZaShop(mob);
})

function sortiranjePoCeni(nizModela) {

    if ($("#sort").val() == "asc") {
        nizModela.sort(function (x, y) {
            let xCena = x.popust ? odrediCenu(x.cena, x.popust) : x.cena;
            let yCena = y.popust ? odrediCenu(y.cena, y.popust) : y.cena;
            if (xCena > yCena) return 1;
            else if (xCena < yCena) return -1;
            else return 0;
        })
    } else if ($("#sort").val() == "desc") {
        nizModela.sort(function (x, y) {
            let xCena = x.popust ? odrediCenu(x.cena, x.popust) : x.cena;
            let yCena = y.popust ? odrediCenu(y.cena, y.popust) : y.cena;
            if (xCena > yCena) return -1;
            else if (xCena < yCena) return 1;
            else return 0;
        })
    }
    return nizModela;
}

function sortiranjePoCeniRaspon(nizModela) {
    return nizModela.filter(function (model) {
        let cena = model.popust ? odrediCenu(model.cena, model.popust) : model.ce
na;
        return cena >= minPrice && cena <= maxPrice;
    });
}

function sortiranjePoNazivu(nizModela) {
    if ($("#sort").val() == "nazivAsc") {
```

```
        nizModela.sort(function (x, y) {
            let punNazivX = x.brand.naziv + " " + x.naziv;
            let punNazivY = y.brand.naziv + " " + y.naziv;
            if (punNazivX.toLowerCase() > punNazivY.toLowerCase()) return 1;
            else if (punNazivX.toLowerCase() < punNazivY.toLowerCase()) return -
1;
            else return 0;
        })
    } else if ($("#sort").val() == "nazivDesc") {
        nizModela.sort(function (x, y) {
            let punNazivX = x.brand.naziv + " " + x.naziv;
            let punNazivY = y.brand.naziv + " " + y.naziv;
            if (punNazivX.toLowerCase() > punNazivY.toLowerCase()) return -1;
            else if (punNazivX.toLowerCase() < punNazivY.toLowerCase()) return 1;
            else return 0;
        })
    }
    return nizModela;
}
```

- **contact.js**

```
$(document).ready(function () {
    proveraUneteVrednosti();
});

function proveraUneteVrednosti(element, regEx, greska) {

    if (regEx.test(element.value)) {
        element.style.border = "3px solid green";
        element.style.color = "greeen";
        greska.style.display = "none";
        return true;
    } else {
        element.style.border = "3px solid red"
        element.style.color = "red";
        greska.style.display = "block";
        return false;
    }
}
```

```
let email1 = document.getElementById('email1');
let email1Greska = document.getElementById('email1Greska');
let name1 = document.getElementById('name1');
let name1Greska = document.getElementById('name1Greska');
let phone = document.getElementById('phone');
let phoneGreska = document.getElementById('phoneGreska');
let message = document.getElementById('message');
let messageGreska = document.getElementById('messageGreska');
let formularKontakt = document.getElementById('formularKontakt');
let forma2 = document.getElementById('forma2');


var emailRegEx = /^[a-z]+([\._]{0,2}[a-z0-9]+)*@([a-z0-9]+\.)+[a-z]{2,3}$/;
email1.addEventListener("blur", function () {
    proveraUneteVrednosti(email1, emailRegEx, email1Greska);
});
var fullNameRegEx = /^[A-zÄŒÄ†Å ÄÅ½Å¡Ä‘ÄÄ‡Å¾]+(\s[A-
zÄŒÄ†Å ÄÅ½Å¡Ä‘ÄÄ‡Å¾]+){1,3}$/;
name1.addEventListener("blur", function () {
    proveraUneteVrednosti(name1, fullNameRegEx, name1Greska);
});
var brojRegEx = /^[0-9]{3}(-?[0-9]{3,4}){2}$/;
phone.addEventListener("blur", function () {
    proveraUneteVrednosti(phone, brojRegEx, phoneGreska);
});
var porukaRegEx = /^[A-ZÅ ÄÅ½ÄŒÄ†][A-zÅ ÄÅ½ÄŒÄ†Å¡Ä‘Å¾ÄÄ‡Å¾,@\/_\.\s!?]+$/m;
message.addEventListener("blur", function () {
    proveraUneteVrednosti(message, porukaRegEx, messageGreska);
});
formularKontakt.onsubmit = function (e) {
    e.preventDefault();
    var brojGresaka = 4;
    brojGresaka -= proveraUneteVrednosti(name1, fullNameRegEx, name1Greska);
    brojGresaka -= proveraUneteVrednosti(email1, emailRegEx, email1Greska);
    brojGresaka -= proveraUneteVrednosti(phone, brojRegEx, phoneGreska);
    brojGresaka -= proveraUneteVrednosti(message, porukaRegEx, messageGreska);
    if (brojGresaka == 0) {
        for (let element of [name1, email1, phone, message]) {
            element.value = "";
        }
        forma2.classList.add("prikazi");
    } else {
        forma2.classList.remove("prikazi");
    }
```

```
}
```

- **cart.js**

```
let korpa = localStorage.getItem('korpa');
korpa = korpa ? JSON.parse(korpa) : [];
ispisKorpe();


function ispisKorpe() {
    const tbody = $('#cart');
    let total = 0;
    tbody.html('');
    $('#total').html();
    if (!korpa.length) {
        $("#confirm").hide();
    }
    korpa.forEach(function (proizvod, index) {
        let cena = proizvod.popust ? proizvod.cena - proizvod.cena * proizvod.pop
ust / 100 : proizvod.cena;
        total += proizvod.quantity * cena;
        let ispis = `
            <tr>
                <td scope="row">${index + 1}</td>
                <td>${proizvod.brand.naziv}   ${proizvod.naziv}</td>
                <td>${cena}&euro;</td>
                <td>${proizvod.quantity}</td>
                <td>${proizvod.quantity * cena}&euro;</td>
                <td>`;
        if (proizvod.quantity > 1) {
            ispis += `<button class="btn btn-
dark" onclick="addToCart(${proizvod.id}, -
1, 'Removed successfully')"><i class="fa fa-minus"></i></button>`
        }
        ispis += `
                    <button class="btn btn-
dark" onclick="addToCart(${proizvod.id}, 1, 'Added successfully')"><i class="fa f
a-plus"></i></button>
                    <button class="btn btn-
danger" onclick="removeFromCart(${proizvod.id}, 'Removed successfully')"><i class
="fa fa-times"></i></button>
                </td>
            </tr>
```

```
        `
        tbody.append(ispis);
    })
    $('#total').html(total + '&euro;');
    $('#totalM').html(total + '&euro;');
}

function addToCart(id, quantity, message) {
    let proizvod = korpa.find(model => model.id === id);
    proizvod.quantity += quantity;
    localStorage.setItem('korpa', JSON.stringify(korpa));
    showSnackbar(message);
    ispisKorpe();
}

function removeFromCart(id, message) {
    let index = korpa.findIndex(model => model.id === id);
    korpa.splice(index, 1);
    localStorage.setItem('korpa', JSON.stringify(korpa));
    showSnackbar(message);
    ispisKorpe();
}

$(document).ready(function(){
  document.getElementById('confirm').addEventListener('click', confirmOrder)
});

function confirmOrder() {
    korpa = [];
    localStorage.removeItem('korpa');
    showSnackbar('Successfully completed');
    ispisKorpe();
}

function showSnackbar(message) {
    let snackbar = document.getElementById("snackbar");
    snackbar.innerText = message;
    snackbar.style.backgroundColor = '#343a40';
    snackbar.className = "show";
    setTimeout(function () {
        snackbar.className = snackbar.className.replace("show", "");
    }, 3000);
}
```

- **productCart.js**

```
function addToCart(id) {
    let proizvod = mob.find(model => model.id === id);
    let korpa = localStorage.getItem('korpa');
    korpa = korpa ? JSON.parse(korpa) : [];
    const postoji = korpa.find(product => product.id === id);
    if (postoji) postoji.quantity++;
    else korpa.push({...proizvod, quantity: 1});
    localStorage.setItem('korpa', JSON.stringify(korpa));
    let snackbar = document.getElementById("snackbar");
    snackbar.innerText = 'Successfully added to cart';
    snackbar.style.backgroundColor = '#343a40';
    snackbar.className = "show";
    setTimeout(function () {
        snackbar.className = snackbar.className.replace("show", "");
    }, 3000);
}
```

4. JSON

- **menu.json**

```
[
    {
        "stranica" : "Home",
        "href" : "index.html",
        "header": true,
        "footer": true,
        "usefulLinks" : false
    },
    {
        "stranica" : "Shop",
        "href" : "shop.html",
        "header": true,
        "footer": true,
        "usefulLinks" : false
    },
    {
        "stranica" : "Contact",
```

```
        "href" : "contact.html",
        "header": true,
        "footer": true,
        "usefulLinks" : false
    },
    {
        "stranica" : "<i class='fa fa-shopping-cart'></i>",
        "href" : "cart.html",
        "header": true,
        "footer": false,
        "usefulLinks" : false
    },
    {
        "stranica" : "<i class='fab fa-facebook'></i> Facebook",
        "href" : "https://www.facebook.com/",
        "header": false,
        "footer": true,
        "usefulLinks" : false
    },
    {
        "stranica" : "<i class='fab fa-instagram'></i> Instagram",
        "href" : "https://www.instagram.com/",
        "header": false,
        "footer": true,
        "usefulLinks" : false
    },
    {
        "stranica" : "<i class='fab fa-whatsapp'></i> Whatsapp",
        "href" : "https://www.whatsapp.com/",
        "header": false,
        "footer": true,
        "usefulLinks" : false
    },
    {
        "stranica" : "Documentations",
        "href" : "#",
        "header": false,
        "footer": false,
        "usefulLinks" : true
    },
    {
        "stranica" : "Sitemap",
        "href" : "sitemap.xml",
        "header": false,
        "footer": false,
```

```
        "usefulLinks" : true
    },
    {
        "stranica" : "<i class='fab fa-redhat'></i> Author",
        "href" : "https://aleksastrugarevic.netlify.app/",
        "header": false,
        "footer": false,
        "usefulLinks" : true
    }
]
```

- **gallery.json**

```
[
  {
    "src": "assets/img/slider2.jpg",
    "alt": "Slide 1"
  },
  {
    "src": "assets/img/slider3.png",
    "alt": "Slide 2"
  },
  {
    "src": "assets/img/slider4.png",
    "alt": "Slide 3"
  }
]
```

- **products.json**

```
[

  {
    "id": 1,
    "naziv": "S21+",
    "slika": {
      "src": "assets/img/s21+.png",
      "alt": "Samsung Galaxy S21+"
    },
    "cena": 1100,
```

```
    "popust": 20,
    "brand": {
      "id": 1,
      "naziv": "Samsung Galaxy"
    },
    "colors": [
      {
        "id": 1,
        "naziv": "Zlatna",
        "hex": "#ffcf40"
      },
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      }
    ],
    "opis": {
      "ekran":"Display: Dyn AMOLED",
      "ramM":"RAM: 8GB ",
      "interna":"Memory: 128GB",
      "bat":"Battery: 4800mAh",
      "rez":"Resolution: 2400 x 1080px",
      "in":"Size: 6.7 inches",
      "cip":"Chipset: Exynos 2100",
      "kam":"Camera: 12MP + 64MP + 12MP / 10MP",
      "sistem":"OS: Android 11"
    }
  },
  {
    "id": 2,
    "naziv": "12 Pro",
    "slika": {
      "src": "assets/img/12pro.png",
      "alt": "Iphone 12 Pro"
    },
    "cena": 1080,
    "popust": 0,
    "brand": {
      "id": 2,
      "naziv": "Iphone"
    },
    "colors": [
      {
        "id": 2,
```

```
      "naziv": "Crna",
      "hex": "#000"
    }
  ],
  "opis": {
    "ekran":"Display: Super Retina XDR",
    "ramM":"RAM: 6GB",
    "interna":"Memory: 128GB",
    "bat":"Battery: 2815mAh",
    "rez":"Resolution: 2532 x 1170px",
    "in":"Size: 6.1 inches",
    "cip":"Chipset: Apple A A14 Bionic ",
    "kam":"Camera: 12MP + 12MP + 12MP / 12MP",
    "sistem":"OS: iOS 14"
  }
},
{
  "id": 3,
  "naziv": "Note20",
  "slika": {
    "src": "assets/img/note20.png",
    "alt": "Samsung Galaxy Note 20"
  },
  "cena": 1300,
  "popust": 10,
  "brand": {
    "id": 1,
    "naziv": "Samsung Galaxy"
  },
  "colors": [
    {
      "id": 2,
      "naziv": "Crna",
      "hex": "#000"
    }
  ],
  "opis": {
    "ekran":"Display: Super AMOLED",
    "ramM":"RAM: 8GB",
    "interna":"Memory: 128GB",
    "bat":"Battery: 4300mAh",
    "rez":"Resolution: 2400 x 1080px",
    "in":"Size: 6.7 inches",
    "cip":"Chipset: Exynos 990",
    "kam":"Camera: 12MP + 64MP + 12MP / 10MP",
```

```
    "sistem":"OS: Android 10"
  }
},
{
  "id": 4,
  "naziv": "Mate 30 Pro",
  "slika": {
    "src": "assets/img/mate30pro.png",
    "alt": "Huawei Mate 30 Pro"
  },
  "cena": 720,
  "popust": 0,
  "brand": {
    "id": 3,
    "naziv": "Huawei"
  },
  "colors": [
    {
      "id": 2,
      "naziv": "Bela",
      "hex": "#fff"
    }
  ],
  "opis": {
    "ekran":"Display: OLED",
    "ramM":"RAM: 8GB",
    "interna":"Memory: 128GB",
    "bat":"Battery: 4500mAh",
    "rez":"Resolution: 2400 x 1176px",
    "in":"Size: 6.53 inches",
    "cip":"Chipset: HiSilicon Kirin 990",
    "kam":"Camera: 40MP + 40MP + 12MP / 32MP",
    "sistem":"OS: Android 10"
  }
},
{
  "id": 5,
  "naziv": "A71",
  "slika": {
    "src": "assets/img/a71.png",
    "alt": "Samsung Galaxy A71"
  },
  "cena": 320,
  "popust": 0,
  "brand": {
```

```
      "id": 1,
      "naziv": "Samsung Galaxy"
    },
    "colors": [
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      },
      {
        "id": 3,
        "naziv": "Bela",
        "hex": "#fff"
      }
    ],
    "opis": {
      "ekran":"Display: Super AMOLED",
      "ramM":"RAM: 6GB",
      "interna":"Memory: 128GB",
      "bat":"Battery: 4500mAh",
      "rez":"Resolution: 2400 x 1080px",
      "in":"Size: 6.7 inches",
      "cip":"Chipset: Qualcomm Snapdragon 730",
      "kam":"Camera: 64MP + 12MP / 32MP",
      "sistem":"OS: Android 10"
    }
  },
  {
    "id": 6,
    "naziv": "A51",
    "slika": {
      "src": "assets/img/a51.png",
      "alt": "Samsung Galaxy A51"
    },
    "cena": 245,
    "popust": 5,
    "brand": {
      "id": 1,
      "naziv": "Samsung Galaxy"
    },
    "colors": [
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
```

```
      },
      {
        "id": 3,
        "naziv": "Bela",
        "hex": "#fff"
      }
    ],
    "opis": {
      "ekran":"Display: Super AMOLED",
      "ramM":"RAM: 4GB",
      "interna":"Memory: 64GB",
      "bat":"Battery: 4000mAh",
      "rez":"Resolution: 2400 x 1080px",
      "in":"Size: 6.5 inches",
      "cip":"Chipset: Exynos 9611 Octa",
      "kam":"Camera: 48MP + 12MP / 32MP",
      "sistem":"OS: Android 10"
    }
  },
  {
    "id": 7,
    "naziv": "S20 FE",
    "slika": {
      "src": "assets/img/s20fe.png",
      "alt": "Samsung Galaxy S20 FE"
    },
    "cena": 700,
    "popust": 10,
    "brand": {
      "id": 1,
      "naziv": "Samsung Galaxy"
    },
    "colors": [
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      }
    ],
    "opis": {
      "ekran":"Display: Super AMOLED",
      "ramM":"RAM: 6GB",
      "interna":"Memory: 128GB",
      "bat":"Battery: 4500mAh",
      "rez":"Resolution: 2400 x 1080px",
```

```
      "in":"Size: 6.5 inches",
      "cip":"Chipset: Exynos 990",
      "kam":"Camera: 12MP + 12MP + 8MP / 32MP",
      "sistem":"OS: Android 10"
    }
  },
  {
    "id": 8,
    "naziv": "S20 Ultra",
    "slika": {
      "src": "assets/img/s20ultra.png",
      "alt": "Samsung Galaxy S20 Ultra"
    },
    "cena": 1225,
    "popust": 0,
    "brand": {
      "id": 1,
      "naziv": "Samsung Galaxy"
    },
    "colors": [
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      }
    ],
    "opis": {
      "ekran":"Display:Dyn AMOLED",
      "ramM":"RAM: 12GB",
      "interna":"Memory: 128GB",
      "bat":"Battery: 5000mAh",
      "rez":"Resolution: 3200 x 1440px",
      "in":"Size: 6.9 inches",
      "cip":"Chipset: Exynos 990",
      "kam":"Camera: 108MP + 12MP + 48MP / 40MP",
      "sistem":"OS: Android 10"
    }
  },
  {
    "id": 9,
    "naziv": "P40",
    "slika": {
      "src": "assets/img/p40.png",
      "alt": "Huawei P40"
    },
```

```
    "cena": 845,
    "popust": 15,
    "brand": {
      "id": 3,
      "naziv": "Huawei"
    },
    "colors": [
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      },
      {
        "id": 3,
        "naziv": "Bela",
        "hex": "#fff"
      }
    ],
    "opis": {
      "ekran":"Display: OLED",
      "ramM":"RAM: 6GB",
      "interna":"Memory: 128GB",
      "bat":"Battery: 3800mAh",
      "rez":"Resolution: 2340 x 1080px",
      "in":"Size: 6.1 inches",
      "cip":"Chipset: HiSilicon Kirin 990 ",
      "kam":"Camera: 50MP + 16MP + 8MP / 32MP",
      "sistem":"OS: Android 10"
    }
  },
  {
    "id": 10,
    "naziv": "Z Flip",
    "slika": {
      "src": "assets/img/zflip.png",
      "alt": "Samsung Galaxy Z Flip"
    },
    "cena": 1050,
    "popust": 5,
    "brand": {
      "id": 1,
      "naziv": "Samsung Galaxy"
    },
    "colors": [
      {
```

```
      "id": 2,
      "naziv": "Crna",
      "hex": "#000"
    }
  ],
  "opis": {
    "ekran":"Display: Dyn AMOLED",
    "ramM":"RAM: 8GB",
    "interna":"Memory: 256GB",
    "bat":"Battery: 3300mAh",
    "rez":"Resolution: 2636 x 1080px",
    "in":"Size: 6.7 inches",
    "cip":"Chipset: Qualcomm Snapdragon 855+",
    "kam":"Camera: 12MP + 12MP / 10MP",
    "sistem":"OS: Android 10"
  }
},
{
  "id": 11,
  "naziv": "11",
  "slika": {
    "src": "assets/img/11.png",
    "alt": "Iphone 11"
  },
  "cena": 680,
  "popust": 0,
  "brand": {
    "id": 2,
    "naziv": "Iphone"
  },
  "colors": [
    {
      "id": 3,
      "naziv": "Bela",
      "hex": "#fff"
    }
  ],
  "opis": {
    "ekran":"Display: IPS",
    "ramM":"RAM: 4GB",
    "interna":"Memory: 64GB",
    "bat":"Battery: 3110mAh",
    "rez":"Resolution: 1792 x 828px",
    "in":"Size: 6.1 inches",
    "cip":"Chipset: Apple A A13 Bionic",
```

```
      "kam":"Camera: 12MP + 12MP / 12MP",
      "sistem":"OS: iOS 13"
    }
  },
  {
    "id": 12,
    "naziv": "12 Mini",
    "slika": {
      "src": "assets/img/12m.png",
      "alt": "Iphone 12 Mini"
    },
    "cena": 620,
    "popust": 0,
    "brand": {
      "id": 2,
      "naziv": "Iphone"
    },
    "colors": [
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      }
    ],
    "opis": {
      "ekran":"Display: Super Retina XDR",
      "ramM":"RAM: 4GB",
      "interna":"Memory: 64GB",
      "bat":"Battery: 2227mAh",
      "rez":"Resolution: 2340 x 1080px",
      "in":"Size: 5.4 inches",
      "cip":"Chipset: Apple A A14 Bionic",
      "kam":"Camera: 12MP + 12MP / 12MP",
      "sistem":"OS: iOS 14"
    }
  },
  {
    "id": 13,
    "naziv": "12",
    "slika": {
      "src": "assets/img/ip12.png",
      "alt": "Iphone 12"
    },
    "cena": 730,
    "popust": 15,
```

```
    "brand": {
      "id": 2,
      "naziv": "Iphone"
    },
    "colors": [
      {
        "id": 1,
        "naziv": "Zlatna",
        "hex": "#ffcf40"
      },
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      },
      {
        "id": 3,
        "naziv": "Bela",
        "hex": "#fff"
      }
    ],
    "opis": {
      "ekran":"Display: Super Retina XDR",
      "ramM":"RAM: 4GB",
      "interna":"Memory: 64GB",
      "bat":"Battery: 28215mAh",
      "rez":"Resolution: 2532 x 1170px",
      "in":"Size: 6.1 inches",
      "cip":"Chipset: Apple A A14 Bionic",
      "kam":"Camera: 12MP + 12MP / 12MP",
      "sistem":"OS: iOS 14"
    }
  },
  {
    "id": 14,
    "naziv": "SE",
    "slika": {
      "src": "assets/img/se.png",
      "alt": "Iphone SE"
    },
    "cena": 410,
    "popust": 10,
    "brand": {
      "id": 2,
      "naziv": "Iphone"
```

```
  },
  "colors": [
    {
      "id": 4,
      "naziv": "Crvena",
      "hex": "#FF0000"
    }
  ],
  "opis": {
    "ekran":"Display: Retina IPS",
    "ramM":"RAM: 3GB",
    "interna":"Memory: 64GB",
    "bat":"Battery: 1821mAh",
    "rez":"Resolution: 1334 x 750px",
    "in":"Size: 4.7 inches",
    "cip":"Chipset: Apple A A13 Bionic",
    "kam":"Camera: 12MP / 7MP",
    "sistem":"OS: iOS 13"
  }
},
{
  "id": 15,
  "naziv": "XR",
  "slika": {
    "src": "assets/img/xr.png",
    "alt": "Iphone XR"
  },
  "cena": 530,
  "popust": 5,
  "brand": {
    "id": 2,
    "naziv": "Iphone"
  },
  "colors": [
    {
      "id": 2,
      "naziv": "Crna",
      "hex": "#000"
    },
    {
      "id": 4,
      "naziv": "Crvena",
      "hex": "#FF0000"
    }
  ],
```

```
    "opis": {
      "ekran":"Display: IPS",
      "ramM":"RAM: 3GB",
      "interna":"Memory: 64GB",
      "bat":"Battery: 2942mAh",
      "rez":"Resolution: 1792 x 828px",
      "in":"Size: 6.1 inches",
      "cip":"Chipset: Apple A A12 Bionic",
      "kam":"Camera: 12MP / 7MP",
      "sistem":"OS: iOS 12"
    }
  },
  {
    "id": 16,
    "naziv": "Mi 10t",
    "slika": {
      "src": "assets/img/mi10t.png",
      "alt": "Xiaomi Mi 10t"
    },
    "cena": 370,
    "popust": 5,
    "brand": {
      "id": 4,
      "naziv": "Xiaomi"
    },
    "colors": [
      {
        "id": 1,
        "naziv": "Zlatna",
        "hex": "#ffcf40"
      },
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      }
    ],
    "opis": {
      "ekran":"Display: IPS",
      "ramM":"RAM: 6GB",
      "interna":"Memory: 128GB",
      "bat":"Battery: 5000mAh",
      "rez":"Resolution: 2400 x 1080px",
      "in":"Size: 6.67 inches",
      "cip":"Chipset: Qualcomm Snapdragon 865",
```

```
    "kam":"Camera: 64MP + 13MP / 20MP",
    "sistem":"OS: Android 10"
  }
},
{
  "id": 17,
  "naziv": "Redmi Note 8 Pro",
  "slika": {
    "src": "assets/img/redmiNote8pro.png",
    "alt": "Xiaomi Redmi Note 8 Pro"
  },
  "cena": 170,
  "popust": 0,
  "brand": {
    "id": 4,
    "naziv": "Xiaomi"
  },
  "colors": [
    {
      "id": 2,
      "naziv": "Crna",
      "hex": "#000"
    }
  ],
  "opis": {
    "ekran":"Display: IPS",
    "ramM":"RAM: 6GB",
    "interna":"Memory: 64GB",
    "bat":"Battery: 4500mAh",
    "rez":"Resolution: 2340 x 1080px",
    "in":"Size: 6.53 inches",
    "cip":"Chipset: MediaTek Helio G90T",
    "kam":"Camera: 64MP + 8MP / 20MP",
    "sistem":"OS: Android 9"
  }
},
{
  "id": 18,
  "naziv": "Redmi Note 9S",
  "slika": {
    "src": "assets/img/redmiNote9s.png",
    "alt": "Xiaomi Redmi Note 8 Pro"
  },
  "cena": 200,
  "popust": 15,
```

```
    "brand": {
      "id": 4,
      "naziv": "Xiaomi"
    },
    "colors": [
      {
        "id": 3,
        "naziv": "Bela",
        "hex": "#fff"
      }
    ],
    "opis": {
      "ekran":"Display: IPS",
      "ramM":"RAM: 4GB",
      "interna":"Memory: 64GB",
      "bat":"Battery: 5020mAh",
      "rez":"Resolution: 2400 x 1080px",
      "in":"Size: 6.67 inches",
      "cip":"Chipset: Qualcomm Snapdragon 720G",
      "kam":"Camera: 48MP + 8MP / 16MP",
      "sistem":"OS: Android 10"
    }
  },
  {
    "id": 19,
    "naziv": "3.4",
    "slika": {
      "src": "assets/img/n3.4.png",
      "alt": "Nokia 3.4"
    },
    "cena": 155,
    "popust": 0,
    "brand": {
      "id": 5,
      "naziv": "Nokia"
    },
    "colors": [
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      }
    ],
    "opis": {
      "ekran":"Display: IPS",
```

```
      "ramM":"RAM: 3GB",
      "interna":"Memory: 32GB",
      "bat":"Battery: 4000mAh",
      "rez":"Resolution: 1560 x 720px",
      "in":"Size: 6.39 inches",
      "cip":"Chipset: Qualcomm Snapdragon 460 (",
      "kam":"Camera: 13MP + 5MP / 8MP",
      "sistem":"OS: Android 10"
    }
  },
  {
    "id": 20,
    "naziv": "5.4",
    "slika": {
      "src": "assets/img/n5.4.png",
      "alt": "Nokia 5.4"
    },
    "cena": 215,
    "popust": 20,
    "brand": {
      "id": 5,
      "naziv": "Nokia"
    },
    "colors": [
      {
        "id": 3,
        "naziv": "Bela",
        "hex": "#fff"
      }
    ],
    "opis": {
      "ekran":"Display: IPS",
      "ramM":"RAM: 4GB",
      "interna":"Memory: 64GB",
      "bat":"Battery: 4000mAh",
      "rez":"Resolution: 1560 x 720px",
      "in":"Size: 6.39 inches",
      "cip":"Chipset: Qualcomm Snapdragon 662 (",
      "kam":"Camera: 48MP + 5MP / 16MP",
      "sistem":"OS: Android 10"
    }
  },
  {
    "id": 21,
    "naziv": "P40 Lite",
```

```
    "slika": {
      "src": "assets/img/p40lite.png",
      "alt": "Huawei P40 Lite"
    },
    "cena": 255,
    "popust": 10,
    "brand": {
      "id": 3,
      "naziv": "Huawei"
    },
    "colors": [
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      }
    ],
    "opis": {
      "ekran":"Display: LTPS IPS ",
      "ramM":"RAM: 6GB",
      "interna":"Memory: 128GB",
      "bat":"Battery: 4200mAh",
      "rez":"Resolution: 2310 x 1080px",
      "in":"Size:6.4 inches",
      "cip":"Chipset: HiSilicon Kirin 810 ",
      "kam":"Camera: 48MP + 8MP / 16MP",
      "sistem":"OS: Android 10"
    }
  },
  {
    "id": 22,
    "naziv": "P40 Pro",
    "slika": {
      "src": "assets/img/p40pro.png",
      "alt": "Huawei P40 Pro"
    },
    "cena": 1100,
    "popust": 15,
    "brand": {
      "id": 3,
      "naziv": "Huawei"
    },
    "colors": [
      {
        "id": 3,
```

```
      "naziv": "Bela",
      "hex": "#fff"
    }
  ],
  "opis": {
    "ekran":"Display: OLED",
    "ramM":"RAM: 8GB",
    "interna":"Memory: 128GB",
    "bat":"Battery: 4200mAh",
    "rez":"Resolution: 2640 x 1200px",
    "in":"Size: 6.58 inches",
    "cip":"Chipset: HiSilicon Kirin 990",
    "kam":"Camera: 50MP + 40MP + 12MP /32MP",
    "sistem":"OS: Android 10"
  }
},
{
  "id": 23,
  "naziv": "P30 Pro",
  "slika": {
    "src": "assets/img/p30pro.png",
    "alt": "Huawei P30 Pro"
  },
  "cena": 675,
  "popust": 0,
  "brand": {
    "id": 3,
    "naziv": "Huawei"
  },
  "colors": [
    {
      "id": 2,
      "naziv": "Crna",
      "hex": "#000"
    },
    {
      "id": 3,
      "naziv": "Bela",
      "hex": "#fff"
    }
  ],
  "opis": {
    "ekran":"Display: OLED",
    "ramM":"RAM: 6GB",
    "interna":"Memory: 128GB",
```

```
      "bat":"Battery: 4200mAh",
      "rez":"Resolution: 2340 x 1080px",
      "in":"Size: 6.47 inches",
      "cip":"Chipset: HiSilicon Kirin 980",
      "kam":"Camera: 40MP + 20MP + 12MP /32MP",
      "sistem":"OS: Android 9"
    }
  },
  {
    "id": 24,
    "naziv": "P Smart Z",
    "slika": {
      "src": "assets/img/pSmartZ.png",
      "alt": "Huawei P Smart Z"
    },
    "cena": 155,
    "popust": 5,
    "brand": {
      "id": 3,
      "naziv": "Huawei"
    },
    "colors": [
      {
        "id": 2,
        "naziv": "Crna",
        "hex": "#000"
      }
    ],
    "opis": {
      "ekran":"Display: IPS",
      "ramM":"RAM: 4GB",
      "interna":"Memory: 64GB",
      "bat":"Battery: 4000mAh",
      "rez":"Resolution: 2340 x 1080px",
      "in":"Size: 6.59 inches",
      "cip":"Chipset: HiSilicon Kirin 710F",
      "kam":"Camera: 16MP / 16MP",
      "sistem":"OS: Android 9"
    }
  }
]
```

- **brands.json**


```
[
  {
    "id": 1,
    "naziv": "Samsung"
  },
  {
    "id": 2,
    "naziv": "Apple"
  },
  {
    "id": 3,
    "naziv": "Huawei"
  },
  {
    "id": 4,
    "naziv": "Xiaomi"
  },
  {
    "id": 5,
    "naziv": "Nokia"
  }
]
```


- **colors.json**


```
[
  {
    "id": 1,
    "naziv": "Samsung"
  },
  {
    "id": 2,
    "naziv": "Apple"
  },
  {
    "id": 3,
    "naziv": "Huawei"
  },
  {
```

```
    "id": 4,
    "naziv": "Xiaomi"
  },
  {
    "id": 5,
    "naziv": "Nokia"
  }
]
```