Akademija tehničko-umetničkih strukovnih studija,
Odsek Visoka ICT škola,
Beograd

Dokumentacija

https://bogdanradovanovic.github.io/web_prog1_project/

Internet tehnologije (Web programiranje)
Web programiranje 1

Bogdan Radovanović
59/15

Sadržaj

Uvod

Korišćene tehnologije
-HTML
-CSS
-Bootstrap
-JavaScript
-JQuery
-XML

Opis funkcionalnosti

-Dinamičko kreiranje sadržaja na osnovu postojećih podataka, posredstvom JavaScript-a. (index.html, devices.html, contact.html)

-Sortiranje i filtriranje podata, koji će se koristiti za dinamički prikaz. (devices.html)
-Sortiranje elemenata premeštanjem samih DOM objekata na strani. (devices.html)
-Otvaranje galerije klikom na sliku bilo kog artikla. Galerija realizovana pomoću JQuery plugin-a. (devices.html)

-Validacija podataka iz forme posredstvom JavaScripta-a i regularnih izraza. (contact.html)
-Dinamičko ispisivanje podataka unetih preko forme, nakon uspešne validacije ili markiranje elemenata forme u Kojima nisu uneti validni podaci. (contact.html)

Template

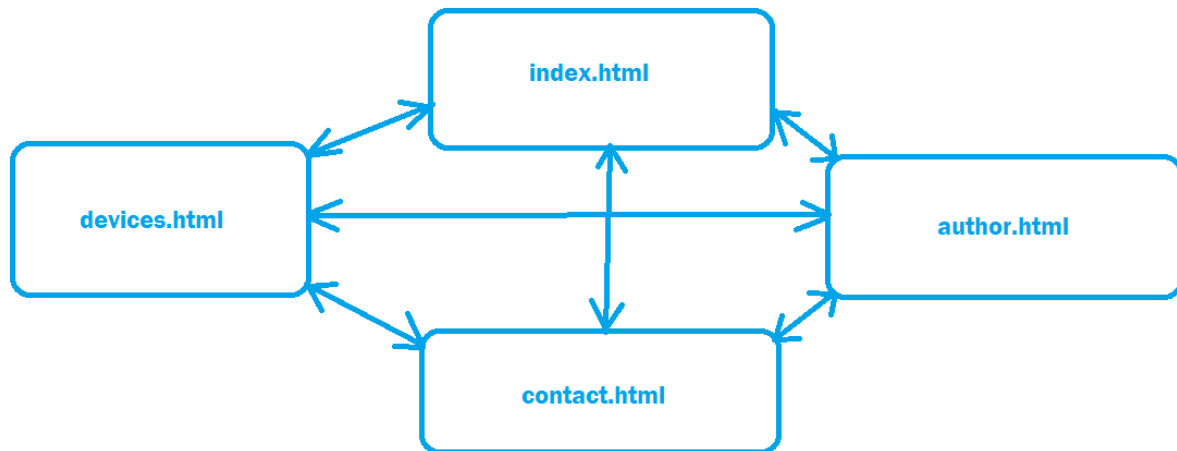Nije korišćen gotov template, kao osnov za dizajn sajta.

Sav dizajn je realizovan posredstvom HTML-a, CSS-a, Bootrsap-a (Samo CSS biblioteke, bez JS-a) i dodatne CSS biblioteke za realizaciju animacije na početnoj strani (https://animate.style/).
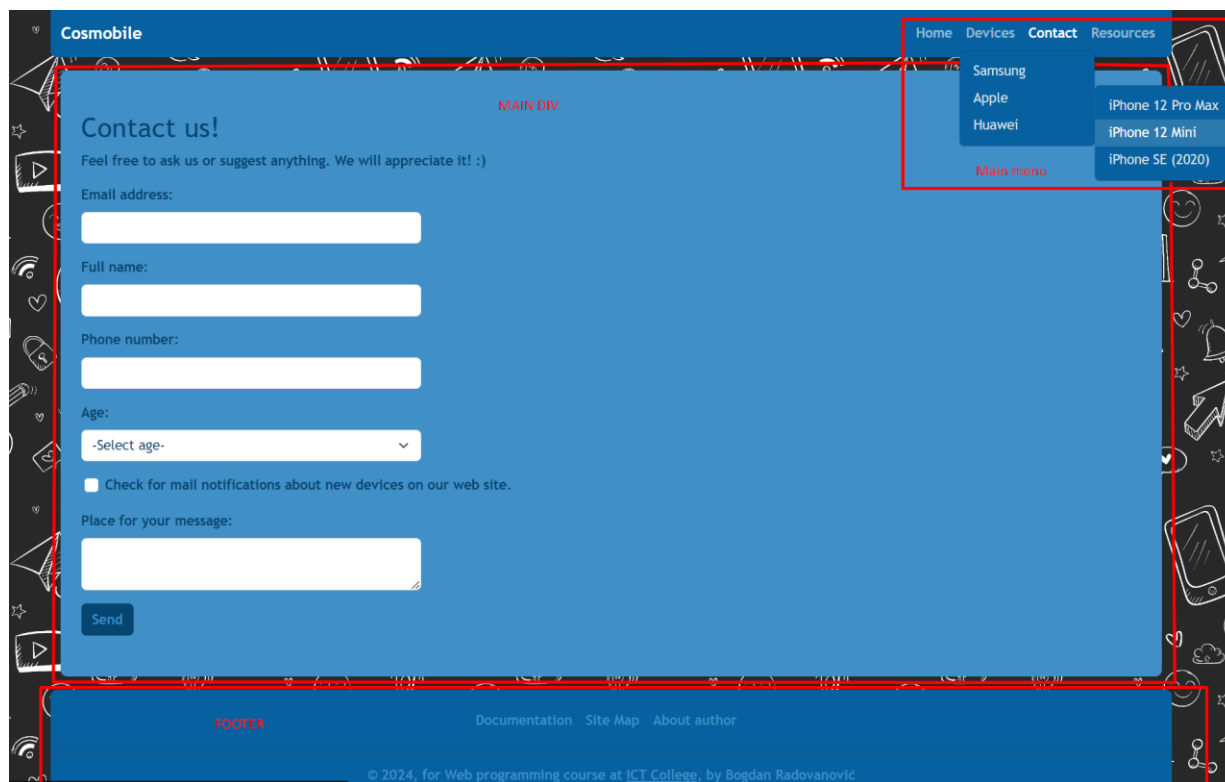
(Struktura koja predstavlja osnov svih stranica sajta.)

Organizacija

Organizaciona šema

Mapa sajta

```xml
<?xml version="1.0" encoding="UTF-8"?>
<urlset
      xmlns="http://www.sitemaps.org/schemas/sitemap/0.9"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://www.sitemaps.org/schemas/sitemap/0.9
            http://www.sitemaps.org/schemas/sitemap/0.9/sitemap.xsd">
<!-- created with Free Online Sitemap Generator www.xml-sitemaps.com -->


<url>
  <loc>https://bogdanradovanovic.github.io/web_prog1_project/</loc>
  <lastmod>2024-02-20T07:00:14+00:00</lastmod>
  <priority>1.00</priority>
</url>
<url>
  <loc>https://bogdanradovanovic.github.io/web_prog1_project/index.html</loc>
  <lastmod>2024-02-20T07:00:14+00:00</lastmod>
  <priority>0.80</priority>
</url>
<url>
  <loc>https://bogdanradovanovic.github.io/web_prog1_project/devices.html</loc>
  <lastmod>2024-02-20T07:00:15+00:00</lastmod>
  <priority>0.80</priority>
</url>
<url>
  <loc>https://bogdanradovanovic.github.io/web_prog1_project/contact.html</loc>
  <lastmod>2024-02-20T07:00:15+00:00</lastmod>
  <priority>0.80</priority>
</url>
<url>
  <loc>https://bogdanradovanovic.github.io/web_prog1_project/author.html</loc>
  <lastmod>2024-02-20T07:00:14+00:00</lastmod>
  <priority>0.80</priority>
</url>


</urlset>
```

robots.txt

```
User-agent: *
Disallow:
```

Slike stranica i opisi funkcionalnosti

Glavni meni (prisutan na svim stranicama)
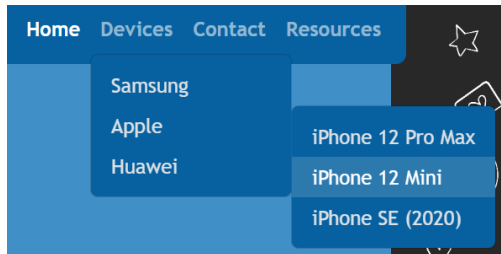
Drop-down meni kreiran pomoću osnovnog JQuery-a, bez korišćenja Plugin-ova.
Dinamičko učitavanje podmenija JavaScript-om, na osnovu postojećih podataka.
Active link u menije se određuje dinamički, na osnovu stranice na kojoj se korisnik nalazi.

index.html

Slider – Kreiran dinamički, JavaScript-om. Animacija realizovana JQuery-em. Setovan tajmer koji menja slide na tri sekunde. Slide se takođe menja na strelice, unapred i unazad, prilikom čega se vreme tajmera restartuje na nulu, pa će se automatska promena nastaviti na tri sekunde.
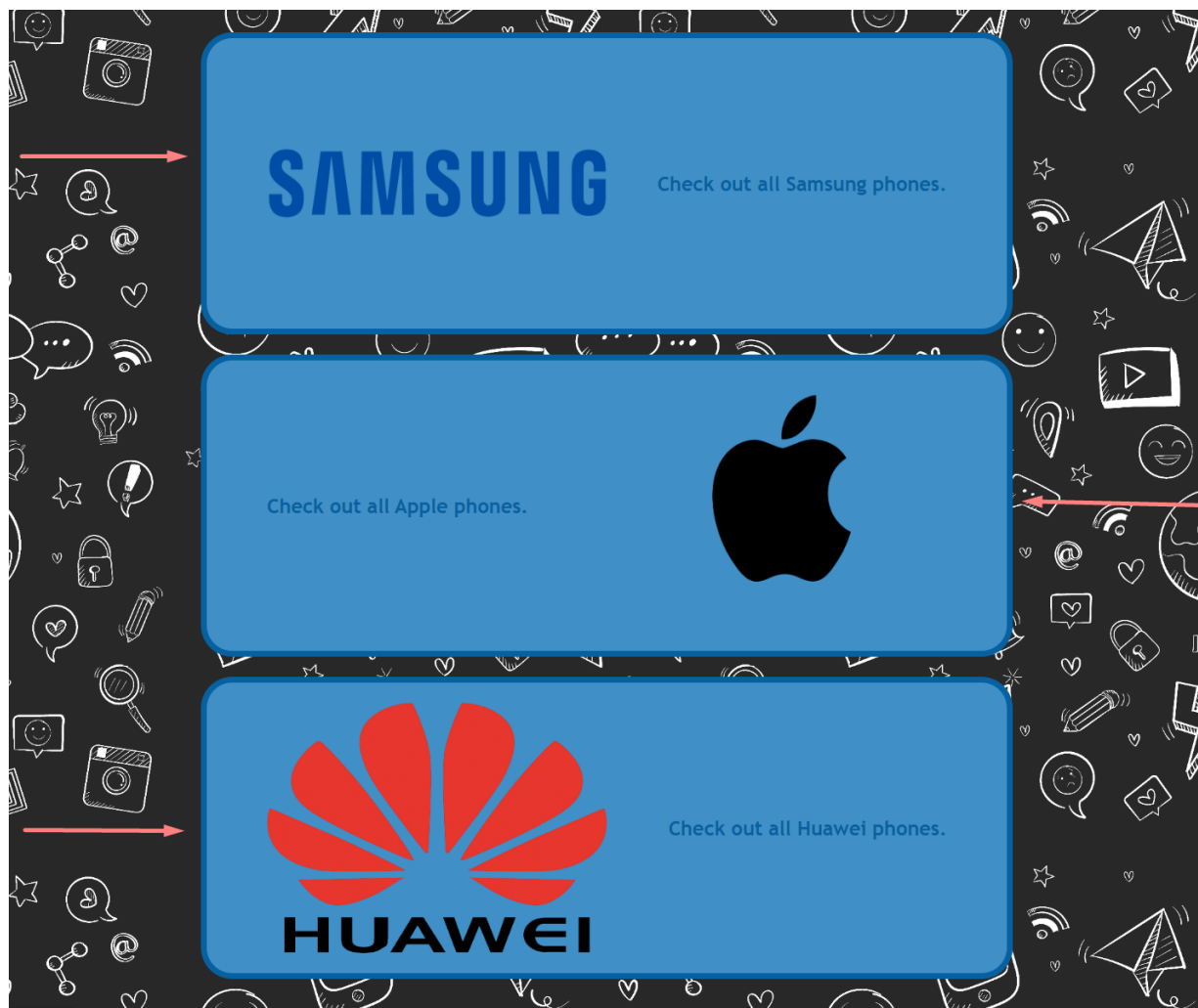
Divovi dinamički kreirani, na osnovu **kategorija** proizvoda. Na stranici se pojavljaju sa animacijom, tako da svi neparni „uklizavaju" u stranu sa leva na desno, dok parni divovi to čine sa suprotne strane, s desna na levo. Svaki će se pojaviti onog trenutka kada se u vidljivom delu browser-a dođe do njega. Za animaciju je korišćena CSS biblioteka (https://animate.style/), dok je sama funkcionalnost realizovana "native" JavaScript-om.

devices.html
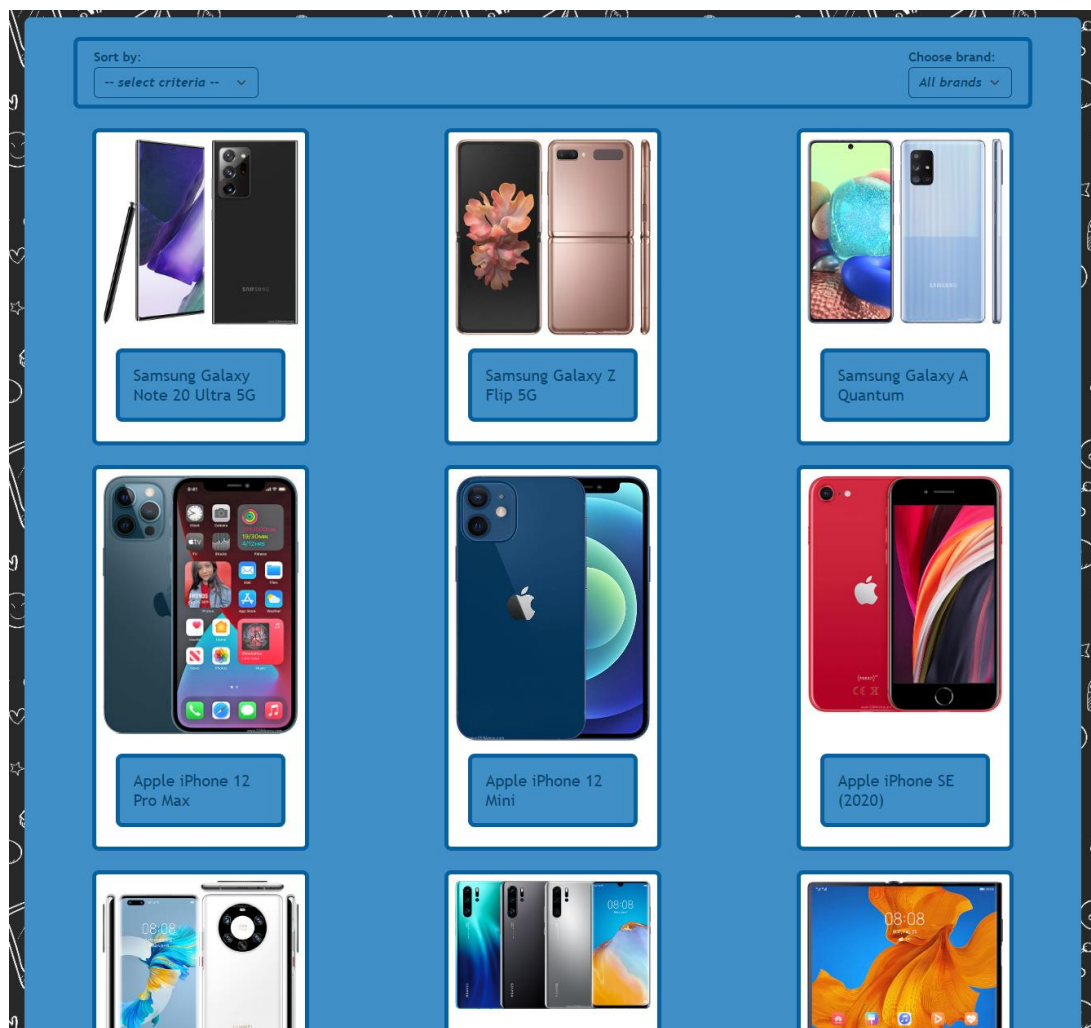
Dinamički kreirani **artikli** na osnovu postojećih podataka. Kategorija se kreira u trenutku kreiranja artikla, ukoliko već ne postoji ta kategorija. U istom redu mogu biti samo artikli iz iste kategorije. Novi red se kreira u trenutku kada je prethodni red, koji pripada toj kategoriji, pun (sadrži tri artikla) ili kada je to prvi artikal iz svoje kategorije.

Mogu se **sortirati** po imenu (uzlazno ili silazno) i **filtrirati** po kategoriji (brendu) kojoj pripadaju. Svaka promena kriterijuma za sortiranje ili filtiranje, osvežiće prikaz artikala, uvek uzimajući u obzir i šta je izabrano kao kriterijum za sortiranje i šta kao kriterijum za filtriranje. Artikli se sortiraju i filtriraju na nivou podataka, pre prikaza, dok se kategorije sortiraju premeštanjem samih div-ova na strani.
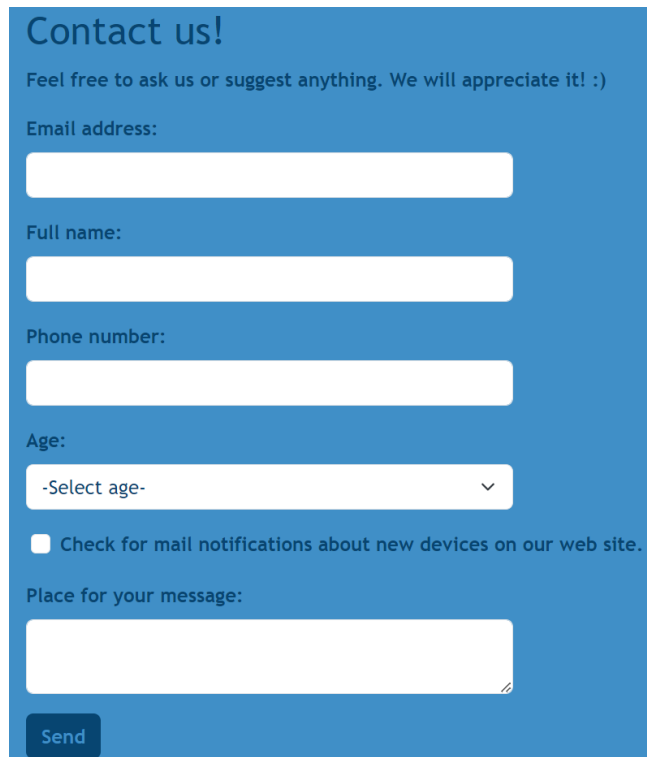
Drop-down lista filter kriterijuma je dinamički kreirana na osnovu podataka o artiklima.

Klikom na bilo koju od slika, otvara se galerija koja sadrži slike svih artikala na strani, u tom trenutku. Kroz galeriju se može kretati klikovima na levoj, odnosno desnoj strani otvorene slike, ali takođe i korišćenjem strelica na tastaturi.

Za realizaciju galerije korišćen je JQuery plugin: https://lokeshdhakar.com/projects/lightbox2/

contact.html

[Kontakt forma](#) sa validacijom unetih podataka, pre submit-a.
Tekstualna polja se proveravaju korišćenjem regularnih izraza.
Padajuća lista za odabir opsega godina je dinamički kreirana.

Čekiranjem check-box polja prikazuje se inicijalno sakrivena grupa radio button-a:

Ukoliko se polje otčekira, grupa radio button-a će se opet sakriti.

Ukoliko uneti podaci nisu validni, njihova polja za unos će biti jasno označena:

Contact us!

Feel free to ask us or suggest anything. We will appreciate it! :)

* Email address:

bogdan@gmail.comm

* Full name:

Bogdan

* Phone number:

06633445555

Age:

-Select age-

☑ Check for mail notifications about new devices on our web site.

How often would you like to be notified? *

○ Daily
○ Weekly
○ Monthly

Place for your message:

Poruka

Send

Kako je poruka glavni razlog popunjavanja forme, ukoliko nije uneta, ostatak forme uopšte neće biti validiran, već će se ta greška odmah prikazati:

Ukoliko su svi podaci ispravno uneti, prikazaće se ispod forme, zajedno sa datumom i vremenom trenutka u kom je forma submit-ovana. Forma će potom biti ispražnjena i svi markeri za greške će biti uklonjeni:

Email address:

Full name:

Phone number:

Age:

-Select age-

☐ Check for mail notifications about new devices on our web site.

Place for your message:

Send

- Email address: bogdan@gmail.com
- Full name: Bogdan Radovanovic
- Phone number: 0663344555
- Age: 18-29
- Notifications: Yes - Weekly
- Message: Poruka
- Submitted on: February 21, 2024 0:2:1

author.html

Izuzev glavnog menija, koji je prisutan na svim stranicama, ova stranica nema drugih funkcionalnosti i interaktivnih delova.

Kodovi

HTML

index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="keywords" content="Apple, Iphone, Samsung, Galaxy, Huawei" />
    <meta name="description" content="Portal for all smartphone enthusiasts!" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Cosmobile</title>

    <link rel="stylesheet" type="text/css" href="assets/frameworks/bootstrap-5.3.2-dist/css/bootstrap.css"/>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/animate.css/4.1.1/animate.min.css" />
    <link rel="stylesheet" type="text/css" href="assets/css/style.css">
    <link rel="stylesheet" type="text/css" href="assets/css/index.css">
</head>
<body>
  <div class="container">

    <header>
      <!-- LOGO -->
      <div class="row"></div>

      <!-- MAIN NAVIGATION -->
      <div class="row">
        <nav class="navbar navbar-expand-lg navbar-dark">
          <div class="container-fluid">

            <a class="navbar-brand" href="index.html">Cosmobile</a>

            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNavDropdown" aria-
```

```
controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle
navigation">
                <span class="navbar-toggler-icon"></span>
            </button>

          <div class="collapse navbar-collapse justify-content-end"
id="navbarNavDropdown">
                <!--menu-->
                <ul class="navbar-nav">

                  <li class="nav-item">
                    <a class="nav-link" aria-current="page"
href="index.html">Home</a>
                  </li>

                  <li class="nav-item dropdown">
                    <a class="nav-link dropdown-toggle" href="devices.html"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
                      Devices
                    </a>
                    <!--dropdown-->
                    <ul class="dropdown-menu dropdown-menu-dark"
id="dropdownSubMenu"> </ul>
                  </li>

                  <li class="nav-item">
                    <a class="nav-link" href="contact.html">Contact</a>
                  </li>

                  <li class="nav-item">
                    <a class="nav-link dropdown-toggle" href="#" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                      Resources
                    </a>
                    <!--dropdown-->
                    <ul class="dropdown-menu dropdown-menu-dark">
                      <li>
                        <a class="dropdown-item"
href="Documentation.pdf">Documentation</a>
                      </li>
                      <li>
```
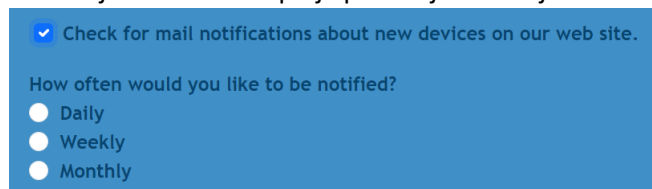
```html
                            <a class="dropdown-item" href="sitemap.xml">Site Map</a>
                        </li>
                        <li>
                            <a class="dropdown-item" href="author.html">About
author</a>
                        </li>
                    </ul>
                </li>

            </ul>
        </div>

    </div>
  </nav>
 </div>

</header>

<main>

  <!-- SLIDER -->
  <div class="row">
      <div id="mainSlider" class="carousel slide carousel-fade" data-bs-
ride="carousel">

          <div class="carousel-inner"></div>

          <button id="btnPreviousSlide" class="carousel-control-prev"
type="button" data-bs-target="#mainSlider" data-bs-slide="prev">
            <span class="carousel-control-prev-icon" aria-
hidden="true"></span>
            <span class="visually-hidden">Previous</span>
          </button>

          <button id="btnNextSlide" class="carousel-control-next"
type="button" data-bs-target="#mainSlider" data-bs-slide="next">
            <span class="carousel-control-next-icon" aria-
hidden="true"></span>
            <span class="visually-hidden">Next</span>
          </button>
```
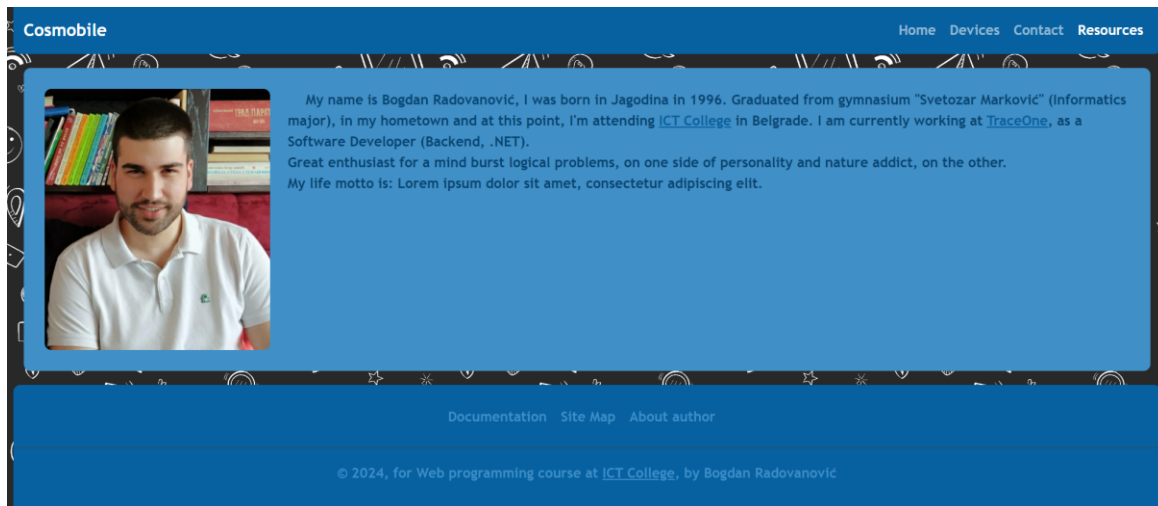
```html
            </div>
        </div>

        <!-- BRAND BANNERS -->
        <div class="row">
            <div class="container-fluid pt-4" id="brandsDiv"></div>
        </div>

        <!-- MESSAGE TO VISITOR -->
        <div class="row p-4 m-2 justify-content-center align-items-center"
id="msgToVisitor">
            <p class="col-md-6 m-0 text-center">Thank you for visiting our site!
<br/>For any question or suggestion you can contact us <a
href="contact.html">here</a></p>
        </div>

    </main>

    <footer class="row py-3">
        <ul class="nav justify-content-center pb-3 mb-3">
            <li class="nav-item"><a href="Documentation.pdf" class="nav-link px-
2">Documentation</a></li>
            <li class="nav-item"><a href="sitemap.xml" class="nav-link px-2">Site
Map</a></li>
            <li class="nav-item"><a href="author.html" class="nav-link px-2">About
author</a></li>
        </ul>
        <p class="text-center">&copy; 2024, for Web programming course at <a
href="https://ict.edu.rs/" target="_blank">ICT College</a>, by Bogdan
Radovanović</p>
    </footer>

  </div>

    <script type="text/javascript" src="assets/javascript/libs/jquery-
3.7.1.min.js"></script>
    <script type="text/javascript" src="assets/javascript/data.js"></script>
    <script type="text/javascript" src="assets/javascript/navbar.js"></script>
    <script type="text/javascript" src="assets/javascript/slider.js"></script>
    <script type="text/javascript"
src="assets/javascript/brandBanners.js"></script>
```

```
</body>
</html>
```

devices.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="keywords" content="Apple, Iphone, Samsung, Galaxy, Huawei" />
    <meta name="description" content="Portal for all smartphone enthusiasts!"
/>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Cosmobile</title>

    <link rel="stylesheet" type="text/css" href="assets/frameworks/bootstrap-
5.3.2-dist/css/bootstrap.css"/>
    <link rel="stylesheet" type="text/css" href="assets/css/style.css">
    <link rel="stylesheet" type="text/css" href="assets/css/devices.css">
    <link rel="stylesheet" type="text/css" href="assets/plugins/lightbox2-
master/css/lightbox.css">
</head>
<body>
  <div class="container">

    <header>
      <!-- LOGO -->
      <div class="row"></div>

      <!-- MAIN NAVIGATION -->
      <div class="row">
        <nav class="navbar navbar-expand-lg navbar-dark">
          <div class="container-fluid">

            <a class="navbar-brand" href="index.html">Cosmobile</a>

            <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target="#navbarNavDropdown" aria-
```

```html
controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle
navigation">
                <span class="navbar-toggler-icon"></span>
            </button>

            <div class="collapse navbar-collapse justify-content-end"
id="navbarNavDropdown">
                <!--menu-->
                <ul class="navbar-nav">

                    <li class="nav-item">
                        <a class="nav-link" aria-current="page"
href="index.html">Home</a>
                    </li>

                    <li class="nav-item dropdown">
                        <a class="nav-link dropdown-toggle" href="devices.html"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
                            Devices
                        </a>
                        <!--dropdown-->
                        <ul class="dropdown-menu dropdown-menu-dark"
id="dropdownSubMenu"> </ul>
                    </li>

                    <li class="nav-item">
                        <a class="nav-link" href="contact.html">Contact</a>
                    </li>

                    <li class="nav-item">
                        <a class="nav-link dropdown-toggle" href="#" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                            Resources
                        </a>
                        <!--dropdown-->
                        <ul class="dropdown-menu dropdown-menu-dark">
                            <li>
                                <a class="dropdown-item"
href="Documentation.pdf">Documentation</a>
                            </li>
                            <li>
```

```html
                    <a class="dropdown-item" href="sitemap.xml">Site Map</a>
                  </li>
                  <li>
                    <a class="dropdown-item" href="author.html">About
author</a>
                  </li>
                </ul>
              </li>

            </ul>
          </div>

        </div>
      </nav>
    </div>

  </header>

  <main class="container-fluid my-3 py-4">
    <div id="filters" class="row justify-content-between mx-5 p-2">

      <div id="nameSort" class="col-6">
        <label for="ddlSort">Sort by: </label>
        <select class="form-select" id="ddlSort">
          <option value="0">-- select criteria --</option>
          <option value="name_asc">Name -> Ascending</option>
          <option value="name_desc">Name <- Descending</option>
        </select>
      </div>

      <div id="brandFilter" class="col-6">
        <label for="ddlFilter">Choose brand: </label>
        <select class="form-select" id="ddlFilter">
          <option value="0" selected>All brands</option>
        </select>
      </div>

    </div>
  </main>

  <footer class="row py--3">
```

```html
        <ul class="nav justify-content-center pb-3 mb-3">
            <li class="nav-item"><a href="Documentation.pdf" class="nav-link px-
2">Documentation</a></li>
            <li class="nav-item"><a href="sitemap.xml" class="nav-link px-2">Site
Map</a></li>
            <li class="nav-item"><a href="author.html" class="nav-link px-2">About
author</a></li>
        </ul>
        <p class="text-center">&copy; 2024, for Web programming course at <a
href="https://ict.edu.rs/" target="_blank">ICT College</a>, by Bogdan
Radovanović</p>
    </footer>

  </div>

    <script type="text/javascript" src="assets/javascript/libs/jquery-
3.7.1.min.js"></script>
    <script type="text/javascript" src="assets/javascript/data.js"></script>
    <script type="text/javascript" src="assets/javascript/navbar.js"></script>
    <script type="text/javascript" src="assets/javascript/devices.js"></script>
    <script type="text/javascript" src="assets/plugins/lightbox2-
master/js/lightbox.js"></script>
</body>
</html>
```

contact.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="keywords" content="Apple, Iphone, Samsung, Galaxy, Huawei" />
    <meta name="description" content="Portal for all smartphone enthusiasts!"
/>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Cosmobile</title>

    <link rel="stylesheet" type="text/css" href="assets/frameworks/bootstrap-
5.3.2-dist/css/bootstrap.css"/>
    <link rel="stylesheet" type="text/css" href="assets/css/style.css">
```

```html
    <link rel="stylesheet" type="text/css" href="assets/css/contact.css">
</head>
<body>
  <div class="container">

    <header>
      <!-- LOGO -->
      <div class="row"></div>

      <!-- MAIN NAVIGATION -->
      <div class="row">
        <nav class="navbar navbar-expand-lg navbar-dark">
          <div class="container-fluid">

            <a class="navbar-brand" href="index.html">Cosmobile</a>

            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle navigation">
              <span class="navbar-toggler-icon"></span>
            </button>

            <div class="collapse navbar-collapse justify-content-end" id="navbarNavDropdown">
              <!--menu-->
              <ul class="navbar-nav">

                <li class="nav-item">
                  <a class="nav-link" aria-current="page" href="index.html">Home</a>
                </li>

                <li class="nav-item dropdown">
                  <a class="nav-link dropdown-toggle" href="devices.html" role="button" data-bs-toggle="dropdown" aria-expanded="false">
                    Devices
                  </a>
                  <!--dropdown-->
                  <ul class="dropdown-menu dropdown-menu-dark" id="dropdownSubMenu"> </ul>
```

```html
            </li>

            <li class="nav-item">
              <a class="nav-link" href="contact.html">Contact</a>
            </li>

            <li class="nav-item">
              <a class="nav-link dropdown-toggle" href="#" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                Resources
              </a>
              <!--dropdown-->
              <ul class="dropdown-menu dropdown-menu-dark">
                <li>
                  <a class="dropdown-item"
href="Documentation.pdf">Documentation</a>
                </li>
                <li>
                  <a class="dropdown-item" href="sitemap.xml">Site Map</a>
                </li>
                <li>
                  <a class="dropdown-item" href="author.html">About
author</a>
                </li>
              </ul>
            </li>

          </ul>
        </div>

      </div>
    </nav>
  </div>

</header>

<main class="container-fluid my-3 py-5 px-4">

  <h2>Contact us!</h2>
  <p>Feel free to ask us or suggest anything. We will appreciate it! :)</p>
```

```html
        <form id="form1" action="#" method="GET" name="form1" class="needs-
validation" novalidate>

        <div class="row mb-3">
          <div class="col-sm-4">
            <label for="tbEmail" class="form-label text-danger errorLabel"> *
</label>
            <label for="tbEmail" class="form-label">Email address:</label>
            <input type="email" id="tbEmail" name="tbEmail" class="form-control
inputElement" required/>
          </div>
        </div>

        <div class="row mb-3">
          <div class="col-sm-4">
            <label for="tbName" class="form-label text-danger errorLabel"> *
</label>
            <label for="tbName" class="form-label">Full name: </label>
            <input type="text" id="tbName" name="tbName" class="form-control
inputElement" required/>
          </div>
        </div>

        <div class="row mb-3">
          <div class="col-sm-4">
            <label for="tbNumber" class="form-label text-danger errorLabel"> *
</label>
            <label for="tbNumber" class="form-label">Phone number:</label>
            <input type="text" id="tbNumber" name="tbNumber" class="form-
control inputElement"/>
          </div>
        </div>

        <div class="row mb-3">
          <div class="col-sm-4" id="ageList"></div>
        </div>

        <div class="row mb-3">
          <div class="col-sm-5 form-check ms-3">
            <input type="checkbox" name="chbNotifications"
id="chbNotifications" value="Yes" class="form-check-input inputElement"/>
```

```html
            <label for="chbNotifications" class="form-check-label">Check for
mail notifications about new devices on our web site.</label>
          </div>
        </div>

        <div id="notificationsFrequency" class="row mb-3">
          <div class="col-sm-4">
            <span>How often would you like to be notified?</span><span
class="text-danger errorLabel"> *</span><br/>
            <input type="radio" name="rbNotifications" id="rbNotifications1"
value="Daily" class="form-check-input inputElement"/><label
for="rbNotifications1" class="form-check-label">   Daily</label><br/>
            <input type="radio" name="rbNotifications" id="rbNotifications2"
value="Weekly" class="form-check-input inputElement"/><label
for="rbNotifications2" class="form-check-label">   Weekly</label><br/>
            <input type="radio" name="rbNotifications" id="rbNotifications3"
value="Monthly" class="form-check-input inputElement"/><label
for="rbNotifications3" class="form-check-label">   Monthly</label><br/>
          </div>
        </div>

        <div class="row mb-3">
          <div class="col-sm-4">
            <label for="taNote" class="form-label text-danger errorLabel"> *
</label>
            <label for="taNote" class="form-label">Place for your message:
</label><br/>
            <textarea id="taNote" name="taNote" class="form-control
inputElement"></textarea>
          </div>
        </div>

        <input type="submit" value="Send" id="btnSend" name="btnSend"
class="btn"/>

      </form>

      <div class="row">
        <div id="infoDiv" class="col-sm-5 mt-3 ms-2 px-1 pt-3 pb-2"></div>
      </div>
```

```
    </main>

    <footer class="row py-3">
      <ul class="nav justify-content-center pb-3 mb-3">
        <li class="nav-item"><a href="Documentation.pdf" class="nav-link px-
2">Documentation</a></li>
        <li class="nav-item"><a href="sitemap.xml" class="nav-link px-2">Site
Map</a></li>
        <li class="nav-item"><a href="author.html" class="nav-link px-2">About
author</a></li>
      </ul>
      <p class="text-center">&copy; 2024, for Web programming course at <a
href="https://ict.edu.rs/" target="_blank">ICT College</a>, by Bogdan
Radovanović</p>
    </footer>

  </div>

    <script type="text/javascript" src="assets/javascript/libs/jquery-
3.7.1.min.js"></script>
    <script type="text/javascript" src="assets/javascript/data.js"></script>
    <script type="text/javascript" src="assets/javascript/navbar.js"></script>
    <script type="text/javascript" src="assets/javascript/contact.js"></script>
</body>
</html>
```

author.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="keywords" content="Apple, Iphone, Samsung, Galaxy, Huawei" />
    <meta name="description" content="Portal for all smartphone enthusiasts!"
/>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Cosmobile</title>

    <link rel="stylesheet" type="text/css" href="assets/frameworks/bootstrap-
5.3.2-dist/css/bootstrap.css"/>
```

```html
    <link rel="stylesheet" type="text/css" href="assets/css/style.css">
    <link rel="stylesheet" type="text/css" href="assets/css/author.css">
</head>
<body>
  <div class="container">

    <header>
      <!-- LOGO -->
      <div class="row"></div>

      <!-- MAIN NAVIGATION -->
      <div class="row">
        <nav class="navbar navbar-expand-lg navbar-dark">
          <div class="container-fluid">

            <a class="navbar-brand" href="index.html">Cosmobile</a>

            <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target="#navbarNavDropdown" aria-
controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle
navigation">
              <span class="navbar-toggler-icon"></span>
            </button>

            <div class="collapse navbar-collapse justify-content-end"
id="navbarNavDropdown">
              <!--menu-->
              <ul class="navbar-nav">

                <li class="nav-item">
                  <a class="nav-link" aria-current="page"
href="index.html">Home</a>
                </li>

                <li class="nav-item dropdown">
                  <a class="nav-link dropdown-toggle" href="devices.html"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
                    Devices
                  </a>
                  <!--dropdown-->
```

```html
                <ul class="dropdown-menu dropdown-menu-dark"
id="dropdownSubMenu"> </ul>
                </li>

                <li class="nav-item">
                  <a class="nav-link" href="contact.html">Contact</a>
                </li>

                <li class="nav-item">
                  <a class="nav-link dropdown-toggle" href="#" role="button"
data-bs-toggle="dropdown" aria-expanded="false">
                    Resources
                  </a>
                  <!--dropdown-->
                  <ul class="dropdown-menu dropdown-menu-dark">
                    <li>
                      <a class="dropdown-item"
href="Documentation.pdf">Documentation</a>
                    </li>
                    <li>
                      <a class="dropdown-item" href="sitemap.xml">Site Map</a>
                    </li>
                    <li>
                      <a class="dropdown-item" href="author.html">About
author</a>
                    </li>
                  </ul>
                </li>

              </ul>
            </div>

          </div>
        </nav>
      </div>

    </header>

    <main class="container-fluid my-3 p-4">
        <figure id="author" class="m-0">
          <img src="assets/images/profile_picture.jpg" alt="profile_picture">
```

```html
            <figcaption>
                  My name is Bogdan Radovanović, I was born in Jagodina in
1996.
                Graduated from gymnasium "Svetozar Marković" (Informatics
major), in my hometown
                and at this point, I'm attending <a href="https://ict.edu.rs/"
target="_blank">ICT College</a> in Belgrade.
                I am currently working at <a href="https://www.traceone.com/"
target="_blank">TraceOne</a>, as a Software Developer (Backend, .NET). <br/>
                Great enthusiast for a mind burst logical problems, on one side
of personality and nature addict, on the other. <br/>
                My life motto is: Lorem ipsum dolor sit amet, consectetur
adipiscing elit.
            </figcaption>
        </figure>
    </main>

    <footer class="row py-3">
      <ul class="nav justify-content-center pb-3 mb-3">
        <li class="nav-item"><a href="Documentation.pdf" class="nav-link px-
2">Documentation</a></li>
        <li class="nav-item"><a href="sitemap.xml" class="nav-link px-2">Site
Map</a></li>
        <li class="nav-item"><a href="author.html" class="nav-link px-2">About
author</a></li>
      </ul>
      <p class="text-center">&copy; 2024, for Web programming course at <a
href="https://ict.edu.rs/" target="_blank">ICT College</a>, by Bogdan
Radovanović</a></p>
    </footer>

  </div>

    <script type="text/javascript" src="assets/javascript/libs/jquery-
3.7.1.min.js"></script>
    <script type="text/javascript" src="assets/javascript/data.js"></script>
    <script type="text/javascript" src="assets/javascript/navbar.js"></script>
</body>
</html>
```

CSS

style.css

```css
*{
    color:#fff;
}

body{
    font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande',
'Lucida Sans', Arial, sans-serif;
    font-weight: bold;
    font-size: medium;
    background-image: url("../images/background.jpg");
    background-size: 500px 565px;
}

/*MAIN MENU*/
nav{
    border-bottom-left-radius: 8px;
    border-bottom-right-radius: 8px;
    background-color: #0761a0;
}

.dropdown-menu-dark{
    background-color: #0761a0;
}

#navbarNavDropdown .dropdown-toggle::after {
    content: none;
}

.dropdown-menu .dropdown-menu {
    left: 100%;
    top: 0;
}

/*FOOTER*/
footer{
    background-color: #0761a0;
    border-top-left-radius: 8px;
    border-top-right-radius: 8px;
```

```css
}

footer ul{
    border-bottom:1px solid rgb(69, 69, 69);
}

footer .nav-link, footer p, footer a{
    color: #408fc7;
}

footer .nav-link:hover, footer a:hover{
    color: #074571;
}
```

index.css

```css
/*SLIDER*/
#mainSlider .carousel-item {
    border-bottom-left-radius: 12px;
    border-bottom-right-radius: 12px;
    background-color: #408fc7;
}

#mainSlider img {
    height: 400px;
}

/*BRAND BANNERS*/
#brandsDiv figure {
    background-color: #408fc7;
    border-radius: 25px;
    border:5px solid #0761a0;
}

#brandsDiv img {
    height: 200px;
}

#brandsDiv figcaption{
    color: #0761a0;
    font-size: medium;
```

```css
        width: auto;
        text-align: justify;
}

/*MESSAGE TO VISITOR*/
#msgToVisitor{
        background-color: #408fc7;
        border-radius: 8px;
}

#msgToVisitor p{
        color: #074571;
}

#msgToVisitor a{
        color: #0761a0;
}
```

devices.css

```css
/*MAIN*/
main{
        background-color: #408fc7;
        border-radius: 8px;
}

main .card{
        border:5px solid #0761a0;
        border-radius: 8px;
        width: 65%;
        margin: 0 auto;
}

main .card-title {
        border:5px solid #0761a0;
        border-radius: 8px;
        background-color: #408fc7;
        color: #074571;
}
```

```css
#filters{
    border:5px solid #0761a0;
    border-radius: 8px;
}

#filters div{
    width: min-content;
}

#filters select{
    width: min-content;
    background-color: #408fc7;
    border-color: #074571;
    font-style: italic;
}

#filters select, #filters label{
    color: #074571;
    font-weight: bold;
}
```

contact.css

```css
main {
    background-color: #408fc7;
    border-radius: 8px;
}

main span, main label, main p, main h2, #ddlAge, #ddlAge>option, #infoDiv>ul>li
{
    color: #074571;
}

#btnSend {
    background-color: #074571;
    color: #408fc7;
    font-weight: bold;
}

#infoDiv, #notificationsFrequency, .errorLabel {
```

```
    display: none;
}


#infoDiv {
    border:5px solid #074571;
    border-radius: 8px;
}
```

author.css

```
main {
    background-color: #408fc7;
    border-radius: 8px;
}

#author {
    display: inline-block;
}

#author img{
    float: left;
    height: 300px;
    border-radius: 8px;
    margin-right: 20px;
}

#author figcaption {
    color: #074571;
    font-size: medium;
}

#author figcaption a{
    color: #0761a0;
}
```

JavaScript

data.js

```javascript
var brands = ["Samsung", "Apple", "Huawei"];

var devices = [
    ["Samsung", "Galaxy Note 20 Ultra 5G",
"https://fdn2.gsmarena.com/vv/pics/samsung/samsung-galaxy-note20-ultra-2.jpg",
"11"],
    ["Samsung", "Galaxy Z Flip 5G",
"https://fdn2.gsmarena.com/vv/pics/samsung/samsung-galaxy-z-flip-5g-mystic-
bronze-1.jpg", "12"],
    ["Samsung", "Galaxy A Quantum",
"https://fdn2.gsmarena.com/vv/pics/samsung/samsung-galaxy-a71-5g-1.jpg", "13"],

    ["Apple", "iPhone 12 Pro Max",
"https://fdn2.gsmarena.com/vv/pics/apple/apple-iphone-12-pro-max-1.jpg", "21"],
    ["Apple", "iPhone 12 Mini", "https://fdn2.gsmarena.com/vv/pics/apple/apple-
iphone-12-mini-r1.jpg", "22"],
    ["Apple", "iPhone SE (2020)",
"https://fdn2.gsmarena.com/vv/pics/apple/apple-iphone-se-2020-2.jpg", "23"],

    ["Huawei", "Mate 40 Pro+",
"https://fdn2.gsmarena.com/vv/pics/huawei/huawei-mate40-pro-plus-1.jpg", "31"],
    ["Huawei", "P30 Pro New Edition",
"https://fdn2.gsmarena.com/vv/pics/huawei/huawei-p30-pro-new-edition-2.jpg",
"32"],
    ["Huawei", "Mate Xs", "https://fdn2.gsmarena.com/vv/pics/huawei/huawei-
mate-xs-4.jpg", "33"]
];

var ageRanges = new Array ("Under 18", "18-29", "30-49", "50-69", "70+");

var monthNames = new Array ("January", "February", "March", "April", "May",
"June", "July", "August", "September", "October", "November", "December");
```

navbar.js

```javascript
function setActiveLink()
{
```

```javascript
        let urlParts = document.URL.split("/");
        let currentPage = urlParts[urlParts.length - 1].split("#")[0];
        let resourcePages = ["Documentation.pdf", "sitemap.xml", "author.html"];

        let menuItems = document.querySelectorAll("#navbarNavDropdown > ul > li >
a");
        for (let i = 0; i < menuItems.length; i++)
        {
            let linkParts = menuItems[i].href.split("/");

            if(linkParts[linkParts.length -1] == currentPage)
            {
                menuItems[i].classList.add("active");
                break;
            }
            else if(resourcePages.includes(currentPage))
            {
                for (const index in menuItems) {
                    if(menuItems[index].textContent.toLowerCase().includes("resourc
es"))
                    {
                        menuItems[index].classList.add("active");
                        break;
                    }
                }
                break;
            }
        }
}

function createMainMenu(devices)
{
    let dropdownSubMenu = document.getElementById("dropdownSubMenu");
    if (dropdownSubMenu != null)
    {
        for (let i = 0; i < devices.length; i++)
        {
            if(document.getElementById(devices[i][0].toLowerCase()+"Link") ==
null)
            {
                let listElement = document.createElement("li");
```

```javascript
                listElement.classList.add("dropdown");
                listElement.id = devices[i][0].toLowerCase()+"Link";
                listElement.innerHTML = `<a class="dropdown-item dropdown-
toggle" href="devices.html#${devices[i][0]}" role="button" data-bs-
toggle="dropdown" aria-expanded="false">
                                        ${devices[i][0]}
                                    </a>
                                    <!--dropdown-->
                                    <ul class="dropdown-menu dropdown-menu-
dark"></ul>`;

                dropdownSubMenu.appendChild(listElement);
            }

            let secondLevelSubMenu =
document.querySelector("#"+devices[i][0].toLowerCase()+"Link > ul");
            if (secondLevelSubMenu != null)
            {
                let subListElement = document.createElement("li");
                subListElement.innerHTML = `<a class="dropdown-item"
href="devices.html#${devices[i][0]}">${devices[i][1]}</a>`;
                secondLevelSubMenu.appendChild(subListElement);
            }
        }

        setActiveLink();
    }
}

window.addEventListener("load", function ()
{
    createMainMenu(devices);

    //animation
    //low-res menu show
    $(".navbar-toggler").click(function()
    {
        $($(this).data("bs-target")).toggle();
    });

    //sub-menu dropdown
```

```
    $("#navbarNavDropdown li").hover(function()
    {
        $(this).children("ul").toggle();
    });
});
```

slider.js

```javascript
function createSlider(devices, brands)
{
    let brandIndex = 0;
    for (let device of devices)
    {
        if(brands.length > brandIndex && device[0] == brands[brandIndex])
        {
            let carouselInner = document.querySelector("#mainSlider >
.carousel-inner");
            if(carouselInner != null)
            {
                let slide = document.createElement("div");
                slide.classList.add("carousel-item");
                slide.innerHTML = `<a href="devices.html#${device[0]}">
                                        <img src="${device[2]}" class="d-block
mx-auto" alt="${device[0].trim()} ${device[1].trim()}">
                                    </a>`;
                carouselInner.appendChild(slide);

                brandIndex++;
            }
        }
    }
    let carouselItem = document.querySelector("#mainSlider .carousel-item");
    if(carouselItem != null)
    {
        carouselItem.classList.add("active");
    }
}

function showNextSlide()
{
    let currentSlide = $('#mainSlider .active');
```

```javascript
    let nextSlide;

    if(currentSlide.next().length)
    {
        nextSlide = currentSlide.next();
    }
    else
    {
        nextSlide = currentSlide.parent().children(':first');
    }

    currentSlide.removeClass('active');
    nextSlide.addClass('active');
}

function showPreviousSlide()
{
    let currentSlide = $('#mainSlider .active');
    let previousSlide;

    if(currentSlide.prev().length)
    {
        previousSlide = currentSlide.prev();
    }
    else
    {
        previousSlide = currentSlide.parent().children(':last');
    }

    currentSlide.removeClass('active');
    previousSlide.addClass('active');
}

function restartTimer()
{
    clearInterval(window.sliderTimer);
    window.sliderTimer = setInterval(showNextSlide, 3000);
}

window.addEventListener("load", function ()
{
```

```
    createSlider(devices, brands);

    this.sliderTimer = setInterval(showNextSlide, 3000);

    $('#btnNextSlide').click(() => {
        showNextSlide();
        restartTimer();
    });
    $('#btnPreviousSlide').click(() => {
        showPreviousSlide();
        restartTimer();
    });

});
```

brandBanners.js
```
function createBrandBanners(brands)
{
    for (let i in brands)
    {
        let categoryDiv = document.createElement("div");
        categoryDiv.classList.add("row");
        categoryDiv.classList.add("justify-content-center");

        let imgTag = `<img src="assets/images/brands/brand${parseInt(i)+1}.png"
class="img-thumbail float-start d-inline col-md-6 p-0"
alt="${brands[i].toUpperCase()}">`;
        let figCapTag = `<figcaption class="figure-caption float-start d-inline
text-break col-md-6 p-0">
                            Check out all ${brands[i]} phones.
                    </figcaption>`;
        let figureContent = i%2 === 0 ? imgTag+figCapTag : figCapTag+imgTag;

        categoryDiv.innerHTML = `<a href="devices.html#${brands[i]}" class="row
justify-content-center">
                                    <figure class="row col-md-6 py-3 px-5
justify-content-between align-items-center">
                                        ${figureContent}
                                    </figure>
                                </a>`;
```

```
        document.getElementById("brandsDiv").appendChild(categoryDiv);
    }
}

function isInViewport(element)
{
    const rect = element.getBoundingClientRect();
    return (
        rect.top >= 0 &&
        rect.left >= 0 &&
        rect.bottom <= (window.innerHeight ||
document.documentElement.clientHeight) &&
        rect.right <= (window.innerWidth ||
document.documentElement.clientWidth)
    );
}

function brandsAnimate(brandsDiv)
{
    let visibleCount = 0;
    for (let i = 0; i < brandsDiv.length; i++)
    {
        if(isInViewport(brandsDiv[i]) && brandsDiv[i].style.visibility ==
"hidden")
        {
            brandsDiv[i].style.visibility = "visible";
            brandsDiv[i].classList.add("animate__animated");

            if(i%2==0)
            {
                brandsDiv[i].classList.add("animate__slideInLeft")
            }
            else
            {
                brandsDiv[i].classList.add("animate__slideInRight");
            }
        }

        if(brandsDiv[i].style.visibility == "visible")
        {
```

```
            visibleCount++;
        }
    }

    if(visibleCount == brandsDiv.length)
    {
        document.removeEventListener("scroll", brandsAnimate);
    }
}

window.addEventListener("load", function ()
{
    createBrandBanners(brands);

    this.brandsDiv = document.querySelectorAll("#brandsDiv > .row");

    for (let i = 0; i < brandsDiv.length; i++)
    {
        brandsDiv[i].style.visibility = "hidden";
    }

    brandsAnimate(brandsDiv);
    document.addEventListener("scroll", () => {brandsAnimate(brandsDiv)});
});
```

devices.js

```
function filterDevices(devices)
{
    let selectedBrand = document.getElementById("ddlFilter").value;
    if(selectedBrand != "0")
    {
        return devices.filter(device => {return device[0]==selectedBrand});
    }
    else
    {
        return devices;
    }
```

```javascript
}

function sortDevices(devices)
{
    let sortCriteria = $("#ddlSort").val();

    if(sortCriteria != "0")
    {
        let a, b;
        let brandDivs = $(".brandDiv");

        if(sortCriteria === "name_asc")
        {
            a = 1, b = -1;
        }
        else if(sortCriteria === "name_desc")
        {
            a = -1, b = 1;
        }

        brandDivs.sort(function (brand1, brand2)
        {
            if ($(brand1).attr("id") > $(brand2).attr("id")) {return a}
            else if ($(brand1).attr("id") < $(brand2).attr("id")) {return b}
            else {return 0}
        });
        $("main").append(brandDivs);

        devices.sort(function (device1, device2)
        {
            if (device1[1] > device2[1]) {return a}
            else if (device1[1] < device2[1]) {return b}
            else {return 0}
        });
    }
}

function createCategoriesDivs(brands)
{
    if(brands.length > 0)
    {
```

```javascript
        let mainElement = document.querySelector("main");

        for (const brand of brands)
        {
            let categoryDiv = document.createElement("div");
            categoryDiv.id = brand;
            categoryDiv.className = "brandDiv";
            mainElement.appendChild(categoryDiv);
        }
    }
}

function returnDeviceCard (name, imgSrc)
{
    let columnElement = document.createElement("div");
    columnElement.classList.add("col");

        let cardElement = document.createElement("div");
        cardElement.classList.add("card", "h-100", "p-2");

            let galleryLink = document.createElement("a");
            galleryLink.setAttribute("href", imgSrc);
            galleryLink.setAttribute("data-lightbox", "devicesGallery");
            galleryLink.setAttribute("data-title", name);
            galleryLink.setAttribute("data-alt", name);

                let imgElement = document.createElement("img");
                imgElement.classList.add("card-img-top");
                imgElement.setAttribute("src", imgSrc);
                imgElement.setAttribute("alt", name);

            let cardBodyElement = document.createElement("div");
            cardBodyElement.classList.add("card-body", "d-flex");

                let deviceTitleElement = document.createElement("h5");
                deviceTitleElement.classList.add("card-title", "align-self-
end", "m-0", "p-3");
                let deviceTitle = document.createTextNode(name);

    deviceTitleElement.appendChild(deviceTitle);
    cardBodyElement.appendChild(deviceTitleElement);
```

```
        galleryLink.appendChild(imgElement)
        cardElement.appendChild(galleryLink);
        cardElement.appendChild(cardBodyElement);
        columnElement.appendChild(cardElement);

        return columnElement;
}

function showDevices(devices)
{
        devices = filterDevices(devices);
        sortDevices(devices);

        if(devices.length > 0)
        {
            let categoriesCounters = {};
            brands.forEach(brand =>
            {
                document.getElementById(brand).innerHTML = "";
                categoriesCounters[brand] = 0;
            });

            let rowElement;
            for (let device of devices)
            {
                if(categoriesCounters[device[0]]%3==0)
                {
                    if(categoriesCounters[device[0]] > 0)
                    {
                        document.querySelector("#"+device[0]+"
.newest").classList.remove("newest");
                    }
                    rowElement = document.createElement("div");
                    rowElement.classList.add("row", "row-cols-3", "mt-4",
"newest");
                    rowElement.appendChild(returnDeviceCard(device[0]+"
"+device[1], device[2]));
                    categoriesCounters[device[0]]++;
                    document.getElementById(device[0]).appendChild(rowElement);
                }
                else
```

```
            {
                rowElement = document.querySelector("#"+device[0]+" .newest");
                rowElement.appendChild(returnDeviceCard(device[0]+"
"+device[1], device[2]));
                categoriesCounters[device[0]]++;
            }

        }
    }
}

function insertBrandFilters(brands)
{
    let ddlFilter = document.getElementById("ddlFilter");
    let filterOption, filterOptionText;
    for (const brand of brands)
    {
        filterOption = document.createElement("option");
        filterOption.setAttribute("value", brand);
        filterOptionText = document.createTextNode(brand);
        filterOption.appendChild(filterOptionText);
        ddlFilter.appendChild(filterOption);
    }
}

window.addEventListener("load", function ()
{
    createCategoriesDivs(brands);
    showDevices(devices);
    insertBrandFilters(brands);

    let ddlFilter = document.getElementById("ddlFilter");
    if (ddlFilter != null )
    {
        ddlFilter.addEventListener("change", () => {showDevices(devices)});
    }

    let ddlSort = document.getElementById("ddlSort");
    if (ddlSort != null)
    {
        ddlSort.addEventListener("change", () => {showDevices(devices)});
```

```
        }
});
```

contact.js

```javascript
function createAgeSelectList(ageRanges)
{
    let ageList = document.getElementById("ageList");
    if(ageList != null)
    {
        let ddList = document.createElement("select");
        ddList.setAttribute("id", "ddlAge");
        ddList.setAttribute("name", "ddlAge");
        ddList.classList.add("form-select", "inputElement");

        let ddlOption = document.createElement("option");
        ddlOption=document.createElement("option");
        ddlOption.setAttribute("value", 0);
        ddlOption.textContent = "-Select age-";
        ddList.appendChild(ddlOption);

        for (let i = 1; i < ageRanges.length; i++)
        {
            ddlOption=document.createElement("option");
            ddlOption.setAttribute("value", ageRanges[i]);
            ddlOption.textContent = ageRanges[i];
            ddList.appendChild(ddlOption);
        }

        let ddlLabel = document.createElement("label");
        ddlLabel.setAttribute("for", "ddlAge");
        ddlLabel.classList.add("form-label");
        ddlLabel.appendChild(document.createTextNode("Age:"));
        ageList.appendChild(ddlLabel);
        ageList.appendChild(ddList);
    }
}

function emptyFormFields()
{
    let inputElements = document.querySelectorAll(".inputElement");
```

```javascript
        let notificationsFrequencyDiv =
document.getElementById("notificationsFrequency");

    if(inputElements.length > 0 && notificationsFrequencyDiv != null)
    {
        for (const inputElement of inputElements)
        {
            let inputName = inputElement.tagName.toLowerCase();

            if(inputName == "textarea")
            {
                inputElement.value = "";
            }
            else if(inputName == "select")
            {
                inputElement.value = "0";
            }
            else
            {
                let inputType = inputElement.getAttribute("type");
                if(inputType != null)
                {
                    switch(inputType)
                    {
                        case "checkbox":
                        case "radio": inputElement.checked = false; break;
                        default: inputElement.value = "";
                    }
                }
            }
        }

        notificationsFrequencyDiv.style.display = "none";
    }
}

function printData(data)
{
    let infoDiv = document.getElementById("infoDiv");
    if(infoDiv != null)
    {
```

```javascript
        infoDiv.innerHTML = "";

        let infoList = document.createElement("ul");
        let listElement;

        for(let i = 0; i < data.length; i++)
        {
            listElement = document.createElement("li");
            listElement.appendChild(document.createTextNode(data[i]));
            infoList.appendChild(listElement);
        }

        let dateObj = new Date();
        let dateString = `${monthNames[dateObj.getMonth()]}
${dateObj.getDate()}, ${dateObj.getFullYear()}
${dateObj.getHours()}:${dateObj.getMinutes()}:${dateObj.getSeconds()}`;
        listElement = document.createElement("li");
        listElement.appendChild(document.createTextNode("Submitted on:
"+dateString));
        infoList.appendChild(listElement);

        infoDiv.appendChild(infoList);

        infoDiv.style.display = "block";

        emptyFormFields();
    }
}

function validateForm()
{
    let taNote = document.getElementById("taNote");

    if(taNote != null)
    {

        let message = taNote.value;

        if (message == "")
        {
            taNote.classList.add("border-2", "border-danger");
```

```javascript
        taNote.labels.forEach(label =>
        {
            if(label.classList.contains("errorLabel"))
            {
                label.style.display = "inline-block";
            }
        });
        return false;
    }
    else
    {
        //RegEx
        const regEmail = /^[\w\d\._-]{3,}@\w{3,}(\.\w{2,3})+$/;
        const regName = /^[A-Z][a-z]{2,}(\s[A-Z][a-z]{2,})+$/;
        const regNumber = /^06([0-6]|9)\d{6,7}$/;

        let invalidInputs = new Array();
        let validData = new Array();

        //Email check
        let tbEmail = document.getElementById("tbEmail");
        if(tbEmail != null)
        {
            let email = tbEmail.value.trim();
            if(regEmail.test(email))
            {
                validData.push("Email address: "+email);
                tbEmail.classList.remove("border-2", "border-danger");
                tbEmail.labels.forEach(label =>
                {
                    if(label.classList.contains("errorLabel"))
                    {
                        label.style.display = "none";
                    }
                });
            }
            else
            {
                invalidInputs.push(tbEmail);
            }
        }
```

```javascript
//Name check
let tbName = document.getElementById("tbName");
if(tbName != null)
{
    let name = tbName.value.trim();
    if(regName.test(name))
    {
        validData.push("Full name: "+name);
        tbName.classList.remove("border-2", "border-danger");
        tbName.labels.forEach(label =>
        {
            if(label.classList.contains("errorLabel"))
            {
                label.style.display = "none";
            }
        });
    }
    else
    {
        invalidInputs.push(tbName);
    }
}


//Number check
let tbNumber = document.getElementById("tbNumber");
if(tbNumber != null)
{
    let number = tbNumber.value.trim();
    if(number != "")
    {
        if(regNumber.test(number))
        {
            validData.push("Phone number: "+number);
            tbNumber.classList.remove("border-2", "border-danger");
            tbNumber.labels.forEach(label =>
            {
                if(label.classList.contains("errorLabel"))
                {
                    label.style.display = "none";
```

```
                }
            });
        }
        else
        {
            invalidInputs.push(tbNumber);
        }
    }
    else
    {
        tbNumber.classList.remove("border-2", "border-danger");
        tbNumber.labels.forEach(label =>
        {
            if(label.classList.contains("errorLabel"))
            {
                label.style.display = "none";
            }
        });
    }
}

//Age check
let ddlAge = document.getElementById("ddlAge");
if(ddlAge != null)
{
    if(ddlAge.value != "0")
    {
        validData.push("Age: "+ddlAge.value);
    }
}

//Notifications check
let chbNotifications = document.getElementById("chbNotifications");
let notifications = "No";
if(chbNotifications != null)
{
    if (chbNotifications.checked && document.form1 != undefined)
    {
        //Notifications frequency check
        let rbNotifications = document.form1.rbNotifications;
        if(rbNotifications != undefined)
```

```javascript
                    {
                        if(rbNotifications.value != "")
                        {
                            let rbErrorLabel =
document.querySelector("#notificationsFrequency .errorLabel");
                            if(rbErrorLabel != null)
                            {
                                rbErrorLabel.style.display = "none";
                            }

                            for (let i = 0; i < rbNotifications.length; i++)
                            {
                                rbNotifications[i].labels[0].classList.remove("
text-danger-emphasis");

                                rbNotifications[i].classList.remove("border-2",
"border-danger");

                                if (rbNotifications.value ==
rbNotifications[i].value)
                                {
                                    notifications = "Yes - " +
rbNotifications[i].value;
                                }
                            }

                            validData.push("Notifications: "+notifications);
                        }
                        else
                        {
                            for (var i = 0; i < rbNotifications.length; i++)
                            {
                                invalidInputs.push(rbNotifications[i]);
                            }
                        }
                    }
                }
                else
                {
                    validData.push("Notifications: "+notifications);
                }
            }
```

```javascript
            validData.push("Message: "+message);
            taNote.classList.remove("border-2", "border-danger");
            taNote.labels.forEach(label =>
            {
                if(label.classList.contains("errorLabel"))
                {
                    label.style.display = "none";
                }
            });

            console.log(validData);
            console.log(invalidInputs);

            //Final check
            if (invalidInputs == 0)
            {
                printData(validData);
                return false;
            }
            else
            {
                for (let i = 0; i < invalidInputs.length; i++)
                {
                    if(invalidInputs[i].name != "rbNotifications")
                    {
                        invalidInputs[i].labels.forEach(label =>
                        {
                            if(label.classList.contains("errorLabel"))
                            {
                                label.style.display = "inline-block";
                            }
                        });
                    }
                    else
                    {
                        invalidInputs[i].labels[0].classList.add("text-danger-emphasis");

                        let rbErrorLabel =
document.querySelector("#notificationsFrequency .errorLabel");
```

```javascript
                    if(rbErrorLabel != null)
                    {
                        rbErrorLabel.style.display = "inline";
                    }
                }

                invalidInputs[i].classList.add("border-2", "border-
danger");
            }
            return false;
        }
    }
    }
    else
    {
        return false;
    }
}

window.addEventListener("load", function ()
{
    createAgeSelectList(ageRanges);

    $("#chbNotifications").change(function()
    {
        $("#notificationsFrequency").toggle();
    });

    document.getElementById("form1").onsubmit = validateForm;
});
```