

Visoka škola strukovnih studija za informacione i komunikacione tehnologije

https://vuskovic09.github.io/tesla-motors/

Filip Vušković 143/17

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Uvod

Korišćene tehnologije

- HTML5
- CSS3
- JavaScript
- jQuery

Okruženje

Visual Studio Code

Funkcionalnosti

- Ručno kucan sajt, bez dodatne upotrebe dodatnog template-a
- Responsive dizajn
- jQuery biblioteka za slajder
- Dinamičko ispisivanje sadržaja
- jQuery i JavaScript animacije
- Forma sa validacijom i prikazom/objašnjenjem načinjenih grešaka

Opis funkcionalnosti

Na samom početku stranice, ubačen je *slick.js* biblioteka za slajder u koji su like učitane dinamički. Menjaju se nakon određenog vremenskog perioda uz dodatnu funkciju automatskog (i beskonačnog) skrolovanja, kao i kontrole putem strelica na tastaturi ili prevlačenjem na mobilnim uređajima.

Klikom na bilo koji element navigacijeg stranica skroluje do odgovarajućeg dela uz pomoć JS animacije. Dropdown lista ostvarena jQuery-jem. Klik n abilo koji model, vodi do njegove, zasebne, lokacije na stranici.

Dinamički ispisana navigacija u footer sekciji.

Paragraf o kompaniji je u početku prikazan samo polovično, uz mogućnost da se prikaže više klikom na dugme koje, istovremeno, proširuje sadržaj tog elementa, kao i dodaje dugme za sakrivanje novog sadržaja. Zavisno od trenutnog statusa elementa, ta dva dugmeta su naizmenično vidljiva.

Prikaz svih modela vozila, dinamički ispisane tabele sa podacima, kao i dinamički učitane slike. Naknadno, opširni prikaz informacija i dodatnih slika za svaki model, takođe, dinamički učitano kroz JavaScript.

Klikom na odgovarajuće dugme ispod bilo kog modela, stranica skroluje do elementa.

Kontakt forma sa imenom, prezimenom, e-mail adresom i porukom. Validacija urađena pomoću regularnih izraza. Nakon pogrešnog unosa, greška se prikazuje iznad odgovarajućeg polja, a nakon ispravke, ista se briše. (dinamički)

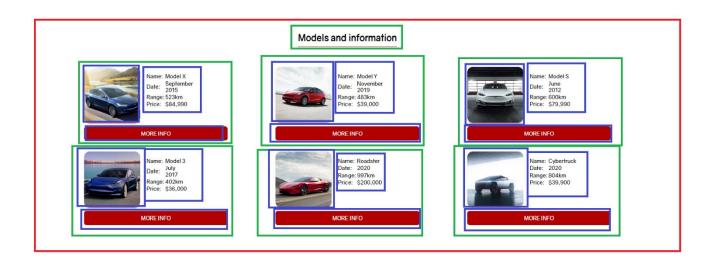
Nakon što korisnik skroluje određenu distancu, u donjem desnom uglu se prikazuje dugme koje ga vraća na vrh stranice, zatim nestaje.

Organizacija sajta

Index.html



Show more ▼



Model X

The Model X weighs about 8% more than the Model S and shares about 30% of its parts content – down from around 60% expected when development began. The cargo space is 87.8 ft. Over the years, he Model X has been available with four liftuum-in objective, rated at either 60, 75, 90, or 100 kW h. The highest performance version of the model i P1000 goes content of the properties of the model in P1000 goes content of the properties of the prope



Model Y



Teala originally announced plans at the unveil to assemble the Model Y at Cigafactory 1 in Nevada, along with the battery and drivertain for the vehicles, unlike the Model Y, where drivertains and batteres are assembled at Cigafactory 1, with final assembly is compiled at the Teals Factory 1, with final assembly is compiled at the Teals Factory 1 with final assembly is compiled at the Teals Factory 1 on Sense paper for Model Y production. Later, Model Y will also be assembled at Cigafactory 3 in Shanghai, China and Teals Cigafactory Europe in Berrin, Germany, US deliverse will start in summer 2020[3] for the Long Range, Dual Motor, and Performance versions, deliveries will start in earthy 2021 for the Cinadian and Model American Sense and Sense a

Model S

The Model S is notable for being designed solely with an electric powertrain in mind, unlike other vehicles where the manufacturer has simply swapped out or supplanted an internal combustion engine with an electric motor. As a result, the Model S is able to offer unique greatures such as a front trunk (a "frunk") in addition to a spacious rear trunk (with a total cargo volume of 31.56 cut or 8541, I rear wheel drev version has bigger trunk), and a greatly. To enhance livability. Test has developed a network of frait—charging Supercharger stations that allow the driver to quickly and easily top-up the charge on heir Model S. A Supercharger takes about 20 minutes to charge to 50%, Ad or 5 minutes to 100% cn the ongring als SixM Model S. Supercharger networks have replayly expanded in Europe, across the United States, and in other countries where there is significant demand, and so of September 2016, the network has been shadhlead in his manufaction and as of September 2016, the network has been shadhlead in model American shales, thus alleviating range anxiety.



Model 3



As production began in 2017, the base Model 3 was announced to have a 50-kWh battery with a range of about 220 miles (350 km) while the optional 75-kWh battery would have a range of about 310 miles (500 km). In the event, Tesla off not produce any base Model 3 in 2017 or 2018. The battery west 270 miles (160 km). In the event, Tesla off not produce any base Model 3 in 2017 or 2018. The battery west 270 miles (160 km). The test of the produced in 2018 of 160 km and 160

Roadster

The second-generation Tesla Roadster is a 2+2 couple with a removable glass roof. It was designed by Franz von Holzhausen, who formerly worked at Mazda and Volkswagen. The Roadster has 2+2 seating arrangements, with smaller roar seats for two passengers. The Roadster has 1+2 extended to the seat of the Roadster has 1+1 wheel drive, and foreur extending for all-wheel drive, and foreur extending for moreing. Tesla said with the wheelch end a 200 kW/n (200 MI) bather, twice the capacity of the Tesla Model S P1000, and giving a 1,000 km (620 milet range on one charge at highway speeds. Tesla stated that the foreur at wheels was 10,000 N·m (7,400 lb·ft). The rear wheels are larger than the front wheels.

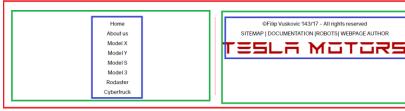


Cybertruck



The truck will use soft-leveling suspension which compensates for variable load and some models will have all-wheel drive. Other standard features include on-board power inverters for supplying both 120 and 240 volt electricity, allowing use of power tools without a portable generator. An air compressor for powering pneumatic tools is included. The exterior is built esistant against 9 mm calibre builters awell. All vehicles will also come standard with sufficient and will have the hardware capabilities for fully autonomous operation. As of November 2019, Tesals was accepting pree-orders for \$500, with a \$7,000 full self-driving configuration selections.





Author.html



Kodovi

Sitemap.xml

Robots.txt

User-agent: *

Disallow: /plugins

Index.html

```
Index.html <!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <meta http-equiv="X-UA-Compatible" content="ie=edge" />
   <meta name="viewport" content="width=device-width, initial-scale=1" />
   <meta name="description" content="Tesla Motors electric cars." />
   <meta name="author" content="mailto: filip.vuskovic.143.17@ict.edu.rs" />
   <meta name="language" content="English" />
   <meta name="keywords" content="Business, Tesla, cars, ecology, electric power</pre>
   <meta name="robots" content="index, follow" />
   <meta name="copyright" content="Filip Vuskovic">
   <link rel="icon" type="image/png" href="images/favicon.ico" />
   <link rel="stylesheet" type="text/css" href="slick/slick.css"/>
   <link rel="stylesheet" type="text/css" href="slick/slick-theme.css"/>
   <link rel="stylesheet" href="css/style.css" />
   <title>Tesla Motors</title>
</head>
<body>
   <header id="header">
       <h1 class="logo">Tesla Motors</h1>
   </header>
   <div id="wrapper">
       <nav id="headerNav" class="navigation">
           <l
               <a id="home" class="link active" href="header">Home</a>
               <a id="aboutNav" class="link" href="about">About us</a>
               <a class="link dropdownLink" href="models">Models <i class="f"</a>
as fa-caret-down"></i></a>
                   ul id="dropdown">
                       <a class="link" href="models">Show all</a>
                       <a class="link" href="ModelX">Model X</a>
                       <a class="link" href="ModelY">Model Y</a>
                       <a class="link" href="ModelS">Model S</a>
                       <a class="link" href="Model3">Model 3</a>
                       <a class="link" href="Roadster">Roadster</a>
                       <a class="link" href="Cybertruck">Cybertruck</a>
                   <a id="contactNav" class="link" href="contact">Contact us</a>
```

```
</nav>
        <div id="hero" class="single-item">
           <!-- Dynamic image loading => script.js -->
        </div>
        <main id="main">
           <div id="about">
               <div class="titleDivider">
                   <h2 class="underline">Tesla's mission is to accelerate the wo
rld's transition to sustainable energy.</h2>
               </div>
               <section class="textSection">
                   Tesla was founded in 2003 by a group of
engineers who wanted to prove that people didn't need to compromise to drive elec
tric - that electric vehicles can be better, quicker and more fun to drive than g
asoline cars. Today, Tesla builds not only all-
electric vehicles but also infinitely scalable clean energy generation and storag
e products. Tesla believes the faster the world stops relying on fossil fuels and
moves towards a zero-emission future, the better.
                   <div class="flexWrap"><span id="showMore" class="link">Show m
ore <i class="fas fa-caret-down"></i></div>
                   Launched in 2008, the Ro
adster unveiled Tesla's cutting-
edge battery technology and electric powertrain. From there, Tesla designed the w
orld's first ever premium all-
electric sedan from the ground up - Model S - which has become the best car in it
s class in every category. Combining safety, performance, and efficiency, Model S
has reset the world's expectations for the car of the 21st century with the long
est range of any electric vehicle, over-the-
air software updates that make it better over time, and a record 0-
60 mph acceleration time of 2.28 seconds as measured by Motor Trend. In 2015, Tes
la expanded its product line with Model X, the safest, quickest and most capable
sport utility vehicle in history that holds 5-
star safety ratings across every category from the National Highway Traffic Safet
y Administration. Completing CEO Elon Musk's "Secret Master Plan," in 2016, Tesla
introduced Model 3, a low-priced, high-
volume electric vehicle that began production in 2017. Soon after, Tesla unveiled
 the safest, most comfortable truck ever - Tesla Semi - which is designed to save
 owners at least $200,000 over a million miles based on fuel costs alone.
                   <div class="flexWrap"><span id="hide" class="link">Hide <i cl</pre>
ass="fas fa-caret-up"></i></span></div>
               </section>
           </div>
           <div id="models">
               <div class="titleDivider">
```

```
<h2 class="underline">Models and information</h2>
                </div>
                <section id="modelsLoad">
                    <!-- Dynamic loading of each model => script.js -->
                <section id="modelDetails">
                    <!-- Dynamic detailed view loading -->
                </section>
            </div>
            <div id="contact" class="contactContainer">
                <div class="contactWrap">
                    <form class="contactForm validate-form">
                         <span class="contactForm-title underline">
                             Contact Us
                        </span>
                         <label class="inputLabel" for="first-</pre>
name">Your Name *</label>
                         <span id="fNameErr" class="formError"></span>
                         <div class="inputWrap">
                             <input id="first-</pre>
name" class="formInput" type="text" name="first-name" placeholder="First name">
                             <span class="focus-formInput"></span>
                         </div>
                         <span id="lNameErr" class="formError"></span>
                         <div class="inputWrap">
                            <input id="last-</pre>
name" class="formInput" type="text" name="last-name" placeholder="Last name">
                             <span class="focus-formInput"></span>
                         </div>
                         <label class="inputLabel" for="email">Email Address *</la</pre>
bel>
                         <span id="eMailErr" class="formError"></span>
                         <div class="inputWrap">
                             <input id="email" class="formInput" type="text" name=</pre>
'email" placeholder="Eg. example@email.com">
                             <span class="focus-formInput"></span>
                         </div>
                         <label class="inputLabel" for="message">Message *</label>
                        <div class="inputWrap">
```

```
<textarea id="message" class="formInput" name="messag</pre>
e" placeholder="Please enter your message..."></textarea>
                                                                           <span class="focus-formInput"></span>
                                                                </div>
                                                                <div class="contactContainer-form-btn">
                                                                           <button id="validationButton" class="contactForm-</pre>
btn">
                                                                                      <span>
                                                                                                 Submit
                                                                                      </span>
                                                                           </button>
                                                                </div>
                                                      </form>
                                           </div>
                                </div>
                                <a href="header" id="toTop"><i class="fas fa-angle-double-</pre>
up"></i></a>
                     </main>
                     <footer id="footer">
                                <div id="footerNav" class="footerBlock">
                                           <!-- Dynamically loaded nav -->
                                </div>
                                <div class="footerBlock">
                                                      © Filip Vuskovic 143/17 - All rights reserved</a>
                                                      <a href="sitemap.xml">SITEMAP</a>&nbsp; | &nbsp; <a href="do">knbsp; <a href="do">
 cumentation.pdf">DOCUMENTATION</a>&nbsp;|<a href="robots.txt">ROBOTS</a>|&nbsp;<a
   href="author.html">WEBPAGE AUTHOR</a>
                                                      <a class="logo">TESLA MOTORS</a>
                                           </div>
                                <div class="footerBlock footerResponsive" id="contactFooter">
                                                      <span class="fas fa-map-marker-</li>
alt"></span> Location: 860 Washington St. New York, NY 10014
                                                     <span class="fas fa-phone-</li>
volume"></span> Phone: (212) 206-1204
                                                     <span class="fas fa-at"></span> E-
Mail: tesla.biz@teslamotors.com
                                           </div>
                      </footer>
```

Author.html

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <meta http-equiv="X-UA-Compatible" content="ie=edge" />
   <meta name="viewport" content="width=device-width, initial-scale=1" />
   <meta name="description" content="Tesla Motors electric cars." />
   <meta name="author" content="mailto: filip.vuskovic.143.17@ict.edu.rs" />
   <meta name="language" content="English" />
   <meta name="keywords" content="Business, Tesla, cars, ecology, electric power</pre>
   <meta name="robots" content="index, follow" />
   <meta name="copyright" content="Filip Vuskovic">
   <link rel="icon" type="image/png" href="images/favicon.ico" />
   <link rel="stylesheet" type="text/css" href="slick/slick.css"/>
   <link rel="stylesheet" type="text/css" href="slick/slick-theme.css"/>
    <link rel="stylesheet" href="css/style.css" />
   <title>Tesla Motors</title>
</head>
<body>
   <header id="header">
       <h1 class="logo">Tesla Motors</h1>
   </header>
   <div id="wrapper">
       <nav id="headerNav" class="navigation">
           <u1>
               <a id="home" class="link active" href="index.html#header">Hom
e</a>
               <a id="aboutNav" class="link" href="index.html#about">About u
s</a>
               <a class="link dropdownLink" href="index.html#models">Models
<i class="fas fa-caret-down"></i></a>
                   ul id="dropdown">
                       <a class="link" href="index.html#models">Show all</a>
<a class="link" href="index.html#ModelX">Model X</a>
/li>
                       <a class="link" href="index.html#ModelY">Model Y</a>
/li>
                       <a class="link" href="index.html#ModelS">Model S</a><
/li>
                       <a class="link" href="index.html#Model3">Model 3</a><
/li>
```

```
<a class="link" href="index.html#Roadster">Roadster<//
a>
                                                       <a class="link" href="index.html#Cybertruck">Cybertru</a>
ck</a>
                                              <a id="contactNav" class="link" href="index.html#contact">Con
tact us</a>
                           </nav>
                  <main id="main">
                           <div class="titleDivider">
                                    <h2 class="underline">Autor sajta: Filip Vušković - 143/17</h2>
                           </div>
                           <div id="author">
                                    <img src="images/author.jpg" alt="Author Image" />
                                     0 meni: Rođen sam 5.6.1998. godine u Beogradu
i osnovno obrazovanje sam stekao u OOŠ "Vladislav Ribnikar". Završio sam Treću be
ogradsku gimnaziju u Beogradu i trenutno studiram na Visokoj ICT školi na smeru I
nternet tehnologije pod brojem indeksa 143/17.
                           </div>
                  </main>
                  <footer id="footer">
                           <div id="footerNav" class="footerBlock">
                                     <!-- Dynamically loaded nav -->
                           </div>
                           <div class="footerBlock">
                                    © Filip Vuskovic 143/17 - All rights reserved</a>
                                              <a href="sitemap.xml">SITEMAP</a>&nbsp; | &nbsp; <a href="do">knbsp; <a href="do">
cumentation.pdf">DOCUMENTATION</a>&nbsp; | <a href="robots.txt">ROBOTS</a> | &nbsp; <a</pre>
  href="author.html">WEBPAGE AUTHOR</a>
                                              <a class="logo">TESLA MOTORS</a>
                                    </div>
                           <div class="footerBlock footerResponsive" id="contactFooter">
                                              <span class="fas fa-map-marker-</li>
alt"></span> Location: 860 Washington St. New York, NY 10014
                                              <span class="fas fa-phone-</li>
volume"></span> Phone: (212) 206-1204
                                              <span class="fas fa-at"></span> E-
Mail: tesla.biz@teslamotors.com
```

Style.css

```
@font-face {
    font-family: "logoFont";
    src: url(../fonts/TESLA.ttf);
@font-face {
    font-family: "mainFont";
    src: url(../fonts/GRAVITY.otf);
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: mainFont;
ul, ol {
    list-style-type: none;
a {
    text-decoration: none;
    color: #000;
body {
  background-color: #FFF;
.logo {
    font-family: logoFont;
    color: rgb(177, 0, 0);
    font-size: 3.5rem;
    text-transform: uppercase;
#header {
    width: 100%;
    display: flex;
    justify-content: space-around;
    padding: 20px;
```

```
#wrapper {
    margin: 0px auto;
.navigation {
   background-color: #FFF;
    padding: 10px;
    position: sticky;
   top: 0px;
    z-index: 1;
   box-shadow: 0px 5px 5px -4px rgb(177, 0, 0);
.navigation ul {
   display: flex;
    justify-content: space-around;
.navigation ul li a {
    font-size: 1.2rem;
    padding: 10px 5px;
}
#dropdown {
  /* display: flex;
 justify-content: space-around;
  margin-top: 10px;
  padding: 10px;
  display: none; /* Redundant? */
  position: absolute;
 background-color: rgba(255, 255, 255, 0.9);
  z-index: 1;
#dropdown li {
  padding-bottom: 8px;
#dropdown li a {
 font-size: 0.9rem;
 padding: 3px 3px;
```

```
.link {
    position: relative;
.link:after{
    content: '';
    position: absolute;
    width: 0; height: 3px;
    display: block;
    margin-top: 3px;
    right: 0;
    background: rgb(177, 0, 0);
    transition: width .2s ease;
    -webkit-transition: width .2s ease;
.link:hover:after{
    width: 100%;
    left: 0;
    background: rgb(177, 0, 0);
.active:after {
 width: 100%;
 left: 0;
 background: rgb(177, 0, 0);
#main {
    width: 80%;
    margin: 0px auto;
#toTop {
  padding: 30px;
  background-color: rgb(177, 0, 0);
  position: fixed;
  right: 70px;
  bottom: 120px;
  border-radius: 100%;
  opacity: 0.95;
  display: none;
  z-index: 1;
/*SLICK PLUGIN START*/
```

```
.slick-next, .slick-prev {
   z-index: 1;
.slick-next:before, .slick-prev:before {
   font-size: 50px;
.slick-next {
   right: 45px;
.slick-prev {
   left: 20px;
/*SLICK PLUGIN END*/
.titleDivider {
   margin: 50px auto;
   display: flex;
   justify-content: center;
.textSection {
   margin: 50px auto;
.underline {
   position: relative;
.underline:after{
   content: '';
   position: absolute;
   width: 100%;
   height: 1px;
   display: block;
   margin-top: 10px;
   left: 0;
   background: rgb(177, 0, 0);
.paragraph {
  margin-top: 10px;
```

```
font-size: 1.1rem;
.flexWrap {
   display: flex;
   justify-items: center;
#showMore, #hide {
   display: inline-block;
   min-width: 20px;
   margin: 25px auto;
   cursor: pointer;
   font-size: 1.2rem;
#hiddenPara, #hide, #dropdown {
   display: none;
#modelsLoad {
   display: flex;
   justify-content: space-around;
    justify-items: center;
   flex-wrap: wrap;
.modelInfo {
   margin: 15px;
   width: 25%;
   display: flex;
   flex-direction: column;
   font-size: 0.9rem;
   border-radius: 20%;
.information {
   display: flex;
.modelIMG {
   max-width: 100%;
   height: auto;
   border-radius: 10%;
```

```
box-shadow: 0px 5px 5px -4px rgb(177, 0, 0);
.buttonInfo {
   border: none;
   width: 100%;
    background: rgb(177, 0, 0);
    color: #ffffff;
   font-weight: 100;
    padding: 10px;
   text-transform: uppercase;
   border-radius: 6px;
    display: inline-block;
   transition: all 0.3s ease 0s;
   margin-top: 10px;
   text-align: center;
.buttonInfo:hover {
   color: #404040;
   font-weight: 700;
    letter-spacing: 3px;
    background: none;
   transition: all 0.3s ease 0s;
   box-shadow: 0px 5px 40px -10px rgba(177, 0, 0, 0.5);
#modelDetails {
    margin-top: 50px 0;
.singleModel {
   display: flex;
    justify-content: space-evenly;
.detailsParagraph {
   font-size: 1.1rem;
   width: 50%;
/* CONTACT SECTION */
input {
```

```
outline: none;
 border: none;
textarea {
 outline: none;
 border: none;
textarea:focus, input:focus {
  border-color: transparent !important;
label {
 display: block;
 margin: 0;
button {
 outline: none !important;
 border: none;
 background: transparent;
button:hover {
  cursor: pointer;
iframe {
 border: none !important;
.contactContainer {
 width: 100%;
 min-height: 50vh;
 display: flex;
  flex-wrap: wrap;
 justify-content: center;
 align-items: center;
 padding: 15px;
.contactWrap {
 width: 790px;
 background: #fff;
```

```
border-radius: 2px;
 padding: 55px 95px 68px 95px;
/* Form */
.contactForm {
 width: 100%;
 display: flex;
 flex-wrap: wrap;
 justify-content: space-between;
.contactForm-title {
 width: 100%;
 display: block;
 font-size: 30px;
 color: #333333;
 line-height: 1.2;
 text-align: center;
 padding-bottom: 45px;
.inputWrap {
 width: 100%;
 position: relative;
 border: 1px solid #e6e6e6;
 border-radius: 2px;
 margin-bottom: 34px
.inputLabel {
 font-size: 13px;
 color: #555555;
 line-height: 1.5;
 text-transform: uppercase;
 width: 100%;
 padding-bottom: 11px;
```

```
.formInput {
  display: block;
 width: 100%;
  background: transparent;
  font-size: 18px;
  color: #333333;
 line-height: 1.2;
  padding: 0 25px;
input.formInput {
 height: 55px;
textarea.formInput {
 min-height: 162px;
 padding-top: 19px;
 padding-bottom: 15px;
.focus-formInput {
 position: absolute;
 display: block;
 width: calc(100\% + 2px);
 height: calc(100\% + 2px);
 top: -1px;
  left: -1px;
 pointer-events: none;
  border: 1px solid;
  border-color: rgb(177, 0, 0);
  visibility: hidden;
  opacity: 0;
  transition: all 0.4s;
  transform: scaleX(1.1) scaleY(1.3);
.formInput:focus + .focus-formInput {
 visibility: visible;
 opacity: 1;
  transform: scale(1);
/* Button */
```

```
contactContainer-form-btn {
 width: 100%;
 display: flex;
 flex-wrap: wrap;
 justify-content: center;
 margin-top: -4px;
.contactForm-btn {
 font-size: 16px;
 color: #fff;
 line-height: 1.2;
 display: flex;
 justify-content: center;
 align-items: center;
 padding: 0 20px;
 min-width: 150px;
 height: 55px;
 border-radius: 27px;
 background: rgb(177, 0, 0);
 position: relative;
 z-index: 1;
 transition: all 0.4s;
.contactForm-btn::before {
 content: "";
 display: block;
 position: absolute;
 z-index: -1;
 border-radius: 27px;
 width: 100%;
 height: 100%;
 top: 0;
 left: 0;
 background: #333333;
 opacity: 1;
 transition: all 0.4s;
.contactForm-btn:hover:before {
 opacity: 0;
.formError {
```

```
color: rgb(177, 0, 0);
#footer {
 width: 100%;
 display: flex;
 justify-content: space-around;
 padding: 50px;
 box-shadow: 0px 5px 5px 4px rgb(177, 0, 0);
.footerBlock {
 width: 33%;
 height: inherit;
 border-right: 1px solid rgba(177, 0, 0, 0.68);
.footerBlock:last-child {
 border-right: none;
.footerBlock ul {
 height: inherit;
 display: flex;
 justify-content: space-around;
 flex-direction: column;
 align-items: center;
.footerBlock ul li {
 margin-top: 10px;
#author {
 display: flex;
 font-size: 24px;
#author p, #author img {
 padding: 5%;
#author img {
 border-radius: 15%;
 max-width: 50%;
 height: auto;
```

```
/* Responsive */
@media screen and (max-width: 1240px) {
  .singleModel {
   flex-direction: column!important;
  .detailsParagraph {
   width: 100%;
    padding: 15px;
  .modelIMG {
   max-width: 100%;
   margin: auto;
  #footer {
    font-size: 12px;
  #footer .logo {
   display: none;
@media screen and (max-width: 1024px) {
 #footer {
   font-size: 16px;
   flex-direction: column;
    align-items: center;
  .footerBlock {
   border-right: none;
   border-bottom: 1px solid rgb(177, 0, 0);
    padding-bottom: 5px;
  .footerBlock:last-of-type {
   border: none;
 #author {
```

```
flex-direction: column;
    align-items: center;
 #author img {
   padding: 5px;
@media screen and (max-width: 900px) {
  .titleDivider {
   font-size: 20px;
 #hero {
  display: none;
  .active:after {
   width: 0;
  .modelInfo {
   width: 45%;
 #toTop {
   display: none!important;
@media (max-width: 768px) {
    .contactWrap {
      padding: 55px 45px 68px 45px;
   #author img {
      padding: 5px;
    #author p {
     font-size: 14px;
```

```
@media screen and (max-width: 750px){
  .detailsParagraph {
     font-size: 14px;
  .modelIMG {
  max-width: 100%;
  .modelInfo {
    width: 95%;
 @media (max-width: 576px) {
    .contactWrap {
      padding: 55px 15px 68px 15px;
    .navigation ul li a {
     font-size: 14px;
    #footer {
      font-size: 12px;
```

Script.js

```
$(document).ready(function(){
  navHover();
  heroImages();
  aboutParagraph();
  modelLoad();
  detailsLoad();
  $('.singleModel').filter(':even').css("flex-direction", "row-reverse");
  //FOOTER NAVIGATION
  var footerNav = document.querySelector('#footerNav ul');
  footerNav.innerHTML = '';
  var navElements = ['Home', 'About us', 'Model X', 'Model Y', 'Model S', 'Model
3', 'Rodaster', 'Cybertruck']
  var hrefs = ['header', 'about', 'ModelX', 'ModelY', 'ModelS', 'Model3', 'Roadst
er', 'Cybertruck']
  for (i = 0; i < navElements.length; i++){</pre>
    footerNav.innerHTML += `<a href="${hrefs[i]}" class="link">${navElements[
i]}</a>`;
  //FOOTER NAVIGATION END
  //FORM VALIDATION
  document.getElementById('validationButton').addEventListener('click', function(
e){
    e.preventDefault();
    var fName, lName, phoneNum, eMail, reFName, reLName, reEmail;
    fName = document.getElementById('first-name');
    reFName = /^[A-Z][a-z]{1,13}$/;
    fNameErr = document.getElementById('fNameErr');
    lName = document.getElementById('last-name');
    reLName = /^([A-Z][a-z]{1,30}\s?)+$/;
    lNameErr = document.getElementById('lNameErr')
    eMail = document.getElementById('email');
    reEmail = /^[a-z][a-z\d\ \.\-]+\@[a-z\d]+(\.[a-z]{2,4})+$/;
    eMailErr = document.getElementById('eMailErr');
    if(!reFName.test(fName.value.trim())){
      fNameErr.innerHTML = 'First name has to start with a capital letter and con
tain 1-13 characters.';
    } else {
      fNameErr.innerHTML = '';
```

```
if(!reLName.test(lName.value.trim())){
      lNameErr.innerHTML = 'Last name has to start with a capital letter and cont
ain 1-30 characters.';
    } else {
      1NameErr.innerHTML = '';
    if(!reEmail.test(eMail.value.trim())){
      eMailErr.innerHTML = 'E-
mail address has to be in the following format: <i>example@example.com</i>';
    } else {
      eMailErr.innerHTML = '';
  });
  //FORM VALIDATION END
  //SLICK PLUGIN START
 $('.single-item').slick({
   autoplay: true,
   autoplaySpeed: 3000,
    speed: 3500,
   zIndex: 0,
   dots: true,
    arrows: true,
  });
  //SLICK PLUGIN END
 //SCROLL FUNCTIONALITY
 $(document).bind('scroll', function(){
    var scrollOffset = $(document).scrollTop();
   var containerOffsetHome = $('#header').offset().top - window.innerHeight;
   var containerOffsetAbout = $('#about').offset().top - window.innerHeight/2;
   var containerOffsetModels = $('#models').offset().top - window.innerHeight/2;
    var containerOffsetContact = $('#contact').offset().top - window.innerHeight/
2;
    if (scrollOffset > containerOffsetHome) {
      $('#headerNav ul li a').removeClass('active');
      $('#home').addClass('active');
   if (scrollOffset > containerOffsetAbout) {
     $('#headerNav ul li a').removeClass('active');
      $('#aboutNav').addClass('active');
   if (scrollOffset > containerOffsetModels) {
```

```
$('#headerNav ul li a').removeClass('active');
    $('#modelsNav').addClass('active');
  if (scrollOffset > containerOffsetContact) {
   $('#headerNav ul li a').removeClass('active');
   $('#contactNav').addClass('active');
  if ($('#home').hasClass('active')){
    $('#toTop').fadeOut('500');
  else {
    $('#toTop').fadeIn('500');
});
//SCROLL FUNCTIONALITY END
//NAVIGATION CLICK-SCROLL
$('.buttonInfo').click(function(event){
  event.preventDefault();
  var target = $(this).attr('href');
  $('html, body').animate({
    scrollTop: $("#" + target).offset().top - 2.5 * $('#headerNav').height()
  }, 500);
});
$('.navigation').find('a').click(function(event){
  event.preventDefault();
  var target = $(this).attr('href');
  $('html, body').animate({
    scrollTop: $("#" + target).offset().top - 2.5 * $('#headerNav').height()
  }, 500);
 });
 $('#footerNav').find('a').click(function(event){
  event.preventDefault();
 var target = $(this).attr('href');
  $('html, body').animate({
    scrollTop: $("#" + target).offset().top - 2.5 * $('#headerNav').height()
  }, 500);
});
```

```
$('#toTop').click(function(event){
    event.preventDefault();
    var target = $(this).attr('href');
    $('html, body').animate({
      scrollTop: $("#" + target).offset().top
    }, 500);
 });
 //NAVIGATION CLICK-SCROLL END
});
function navHover(){
  let ddLink = $(".dropdownLink");
 let ddList = $("#dropdown");
 ddLink.hover(function(e) {
   e.preventDefault();
   ddList.slideDown(500);
  }, function(e) {
    event.preventDefault();
    ddList.mouseleave(function(){
      ddList.slideUp(500);
    });
  });
function heroImages(){
  let images = ['hero0', 'hero1', 'hero2', 'hero3', 'hero4', 'hero5'];
 let hero = document.getElementById('hero');
 hero.innerHTML = '';
  for(i = 0; i < images.length; i++) {</pre>
   hero.innerHTML += '<img class="heroIMG" src="images/' + images[i] + '.jpg" al
t="Hero image' + i + '"/>';
  };
function aboutParagraph(){
 let para = $('#hiddenPara');
 let showButton = $('#showMore');
 let hideButton = $('#hide');
  showButton.click(function(){
    para.slideDown(500);
   showButton.slideUp(600);
```

```
hideButton.slideDown(600);
   hideButton.css('display', 'inline-block'); //So it centers
 });
 hideButton.click(function(){
   para.slideUp(500);
   showButton.slideDown(600);
   hideButton.slideUp(600);
 });
function modelLoad(){
 let modelDivs = document.getElementById('modelsLoad');
 let imgModels = ['modelX.jpg', 'modelY.jpg', 'modelS.jpg', 'model3.jpg', 'roads
ter.jpg', 'cybertruck.jpg']
 let models = ['Model X', 'Model Y', 'Model S', 'Model 3', 'Roadster', 'Cybertr
uck'];
 let date = ['September 2015', 'November 2019', 'June 2012', 'July 2017', '2020'
, '2020'];
 let range = ['523km', '483km', '600km', '402km', '997km', '804km'];
 let price = ['$84,990', '$39,000', '$79,990', '$36,000', '$200,000', '$39,900']
 modelDivs.innerHTML = '';
  for (i = 0; i < imgModels.length; i++){</pre>
   modelDivs.innerHTML +=
   `<div class="modelInfo">
     <div class="information">
     <img class="modelIMG" src="images/${imgModels[i]}" alt="" />
     Name:
         ${models[i]}
       Date:
         ${date[i]}
       Range:
         ${range[i]}
       Price:
```

```
${price[i]}
        </div>
      <span>
      <a class="buttonInfo" href="${models[i].replace(/\s+/g, '')}">More info</a>
    </span>
    </div>
function detailsLoad(){
    let detailDivs = document.getElementById('modelDetails');
    let detailIMG = ['detailsX.jpg', 'detailsY.jpg', 'detailsS.jpg', 'details3.jp
g', 'detailsRoadster.jpg', 'detailsCybertruck.jpg']
    let models = ['Model X', 'Model Y', 'Model S', 'Model 3', 'Roadster', 'Cyber
truck'];
    let modelTexts =[
     `'The Model X weighs about 8% more than the Model S and shares about 30% of
 its parts content - down from around 60% expected when development began. The ca
rgo space is 87.8 \,\, 	ext{ft}^3. Over the years, the Model X has been available with four 1
ithium-
ion battery packs, rated at either 60, 75, 90, or 100 kW·h. The highest performan
ce version of the model P100D goes from 0 to 60 mph (0 to 97 km/h) in 2.7 seconds
and the 1/4 mile (400 meters) in 11.4 seconds, outperforming the fastest SUVs an
d most sports cars. The Model X's all-wheel-
drive system uses two motors (one for the front and the other for the rear wheels
), unlike conventional AWD systems that have a single source of power. The Tesla
Model X 100D has an official EPA rated range of up to 325 mi (523 km).
      The company planned to offer rear-wheel-
drive models, but instead all models use all-
wheel drive. The standard AWD has 259 horsepower (193 kilowatts) on both the from
t and rear motors, while the performance edition has 259 hp (193 kW) front and 50
3 hp (375 kW) rear. With an optional towbar, the Model X has a towing capacity of
up to 5,000 pounds (2,300 kg). At the 55 mph (89 km/h) towing speed limit in Cal
ifornia, a Model X may have 70% of the 257 mi (414 km) EPA-
registered range when pulling a 2,300 lb (1,000 kg) travel trailer.'`,
      `Tesla originally announced plans at the unveil to assemble the Model Y at
Gigafactory 1 in Nevada, along with the battery and drivetrain for the vehicles,
```

unlike the Model 3, where drivetrains and batteries are assembled at Gigafactory 1, with final assembly is completed at the Tesla Factory in Fremont, California. Two months later, in May 2019, Tesla confirmed that they instead plan to shuffle production lines at the Tesla Fremont Factory to make space for Model Y production. Later, Model Y will also be assembled at Gigafactory 3 in Shanghai, China and Tesla Gigafactory Europe in Berlin, Germany.

US deliveries will start in summer 2020[3] for the Long Range, Dual Motor, and Performance versions; deliveries will start in early 2021 for the Standard Range version. After initial rollout, Tesla is expected to begin shipping cars to the Canadian and Mexican markets, and right-

hand drive European markets thereafter. Once Gigafactory 3 in Shanghai is operational, Model Y vehicles for Asian markets will be available.`,

The Model S is notable for being designed solely with an electric powertra in in mind, unlike other vehicles where the manufacturer has simply swapped out or supplanted an internal combustion engine with an electric motor. As a result, the Model S is able to offer unique features such as a front trunk (a "frunk") in addition to a spacious rear trunk (with a total cargo volume of 31.56 cu ft or 89 4 L) (rear wheel drive version has bigger frunk) and a greatly enlarged front crumple zone compared to the typical combustion engine powered vehicle.

To enhance livability, Tesla has developed a network of fast-charging 'Supercharger' stations that allow the driver to quickly and easily top-up the charge on their Model S. A Supercharger takes about 20 minutes to charge to 50%, 40 minutes to charge to 80%, and 75 minutes to 100% on the original 85 kWh Model S. Supercharger networks have rapidly expanded in Europe, across the Unite d States, and in other countries where there is significant demand, and as of Sep tember 2016, the network has been established in most American states, thus makin g cross-

country and long distance trips in an electric vehicle feasible and greatly allev iating range anxiety`,

`As production began in 2017, the base Model 3 was announced to have a 50-kWh battery with a range of about 220 miles (350 km) while the optional 75-kWh battery would have a range of about 310 miles (500 km). In the event, Tesla d id not produce any base Model 3s in 2017 or 2018. The battery uses 2170-size lithium-ion cells

As of 2017, the 350-

volt Model 3 battery pack was made of four longitudinal modules each containing the individual battery cells. The Standard Range version carries 2,976 cells arranged in groups of 31. The Long Range version carries 4,416 cells arranged in groups of 46, and weighs 480 kg.

Tesla continues to improve the design of the 2170 battery cell and introduc es incremental improvements into the manufacturing line periodically. Tesla began manufacture of the "lighter, better, cheaper" 2170 cell during 2018, with a comp any goal of reducing the cost of assembled battery packs to US\$100 per kilowatthour (kWh) by December 2018, and moving the new cell into volume production at Gi gafactory 1 during the first quarter of 2019. Electrek reported in late 2018 that the improved battery cell design was needed to further reduce battery costs as T esla was planning to begin to deliver the Model 3 Standard Range for the promised base price of US\$35,000 the following year.`, `The secondgeneration Tesla Roadster is a 2+2 coupé with a removable glass roof. It was desi gned by Franz von Holzhausen, who formerly worked at Mazda and Volkswagen. The Ro adster has a 2+2 seating arrangements, with smaller rear seats for two passengers The Roadster has three electric motors, one in front and two at the rear, a llowing for allwheel drive, and torque vectoring during cornering. Tesla said that the vehicle h ad a 200 kWh (720 MJ) battery, twice the capacity of the Tesla Model S P100D, and giving a 1,000 km (620 miles) range on one charge at highway speeds. Tesla state d that the torque at wheels was 10,000 N·m (7,400 lb·ft). The rear wheels are larg er than the front wheels.`, `The truck will use selfleveling suspension which compensates for variable load and some models will have all-wheel drive. Other standard features include onboard power inverters for supplying both 120 and 240-Volt electricity, allowing use of power tools without a portable generator. An ai $^{\circ}$ compressor for powering pneumatic tools is included. The exterior is bulletresistant against 9 mm caliber bullets as well. All vehicles will also come stand ard with Tesla Autopilot, and will have the hardware capabilities for fully auton omous operation. As of November 2019, Tesla was accepting preorders for \$100, with a \$7,000 'full self-driving' option. The range of the Cybertruck varies from 250-500 miles (400-800 km), depending on configuration selections.]; detailDivs.innerHTML = ''; for (i = 0; i < detailIMG.length; i++){</pre> detailDivs.innerHTML += `<div id="\${models[i].replace(/\s+/g, '')}"> <div class="titleDivider">

<h2 class="underline">\${models[i]}</h2>