Dokumentacija

Web programiranje

Nikola Radulović 2010/17

1. UVOD

1.1) Korišćene tehnologije za izradu sajta: HTML, CSS, JavaScript, jQuery, XML, AJAX, JSON, FancyBox 3 plugin
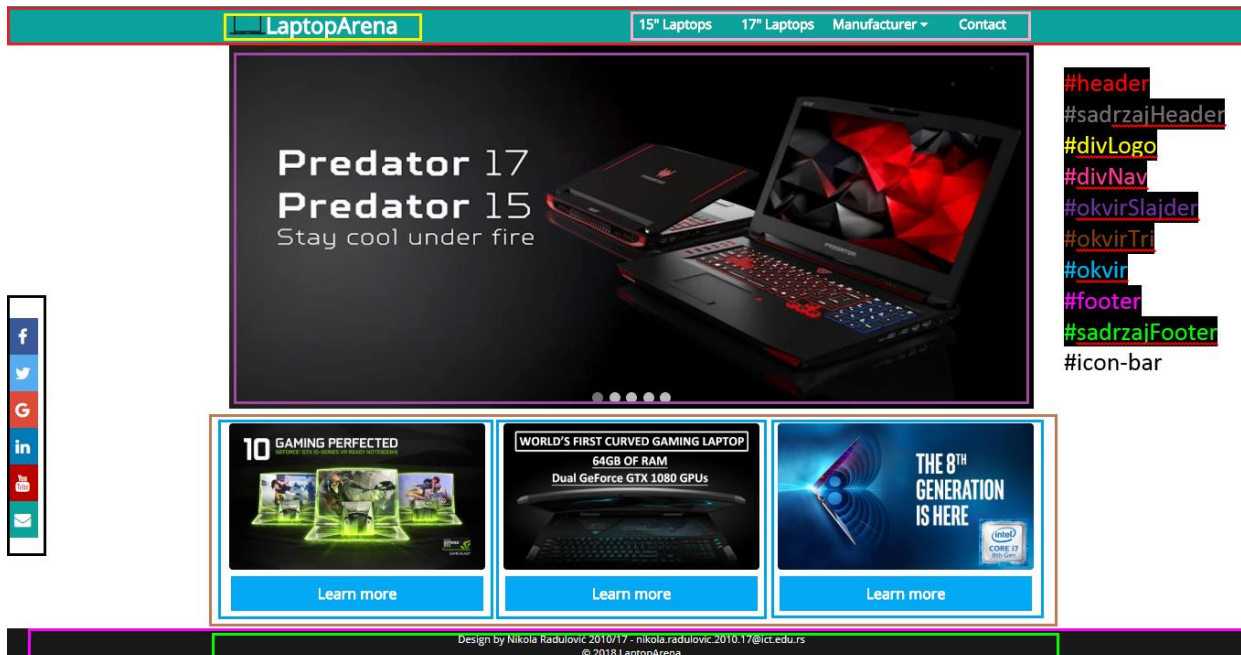
1.2) Opis funkcionalnosti:

Dropdown Menu – nalazi se na svim stranicama

Slider – nalazi se samo na **index.html** stranici

Filtriranje – nalazi se na stranici **proizvodi.html**. Filtriranje proizvoda preko checkbox-ova.

1.3. Template

index.html

21x.html (divovi .region se ponavljaju vise puta, na slici su stavljena samo dva)

.predator
.okvir
.region
.predator-navigacija

FLIP-OVER MODULE

Tactile numpad and precision touchpad in one flippable device with adjustable lighting through PredatorSense™. No matter the situation, you're ready.

DIAMOND-EDGED

Every detail matters. Emblazoned and cut to diamond-edged perfection, the Predator symbol is stamped upon the cover for all to admire.

SPINNING BRIGHT

The visibly bright AeroBlade™ fan, nestled just outside your reach behind its transparent cover, lights up and spins in a color of your choosing.

DISPLAY   EYE TRACKING   MX CHERRY   FLIP-OVER   DIAMOND-EDGED   DUAL GTX1080   CPU   5-FAN   AEROBLADE   SPEAKERS   DOLBY/TRUEHARMONY   PREDATORSENSE   COOLBOOST   CASE   KEEP IT CLEAN
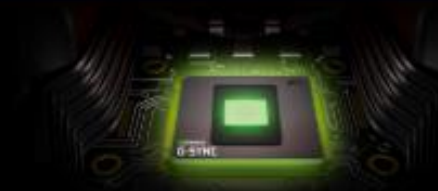
nvidia.html

VR READY

Game with next-generation VR performance, the lowest latency, and plug-and-play compatibility with leading headsets—driven by NVIDIA VRWorks™ technologies. VR audio, physics, and haptics let you hear and feel every moment

NVIDIA G-SYNC

This groundbreaking display technology delivers the smoothest gaming experience ever. G-SYNC synchronizes the display refresh rates to the GPU in your GeForce GTX-powered laptop, eliminating screen tearing and minimizing display stutter and input lag.

NVIDIA BATTERY BOOST

Lose the laptop charger and game on the go. BatteryBoost™ delivers the performance and extended battery life you need to outgun your opponents.
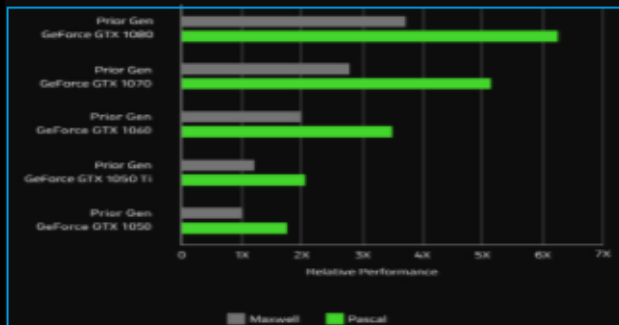
NVIDIA WHISPERMODE

This new, ultra efficient mode makes your plugged-in laptop run much quieter while gaming. It intelligently paces the game's frame rate while simultaneously configuring the graphics settings for optimal power-efficiency.

#nvidia
#okvir
#nvidia-deo

(nastavak nvidia.html)

GAME PERFORMANCE

eForce GTX 10 Series Laptops powered by NVIDIA Pascal™
give you amazing speed and power efficiency.
*Perfo .nvidia   ng.
Prior g
.okvir

.nvidia-deo

.dugme

.nvidia-tabela-spec

Chart labels:
- Prior Gen GeForce GTX 1080
- Prior Gen GeForce GTX 1070
- Prior Gen GeForce GTX 1060
- Prior Gen GeForce GTX 1050 Ti
- Prior Gen GeForce GTX 1050

X-axis: 0 1X 2X 3X 4X 5X 6X 7X
Relative Performance

Legend: Maxwell Pascal

Hide specifications

GEFORCE GTX 10-SERIES LAPTOPS

	GEFORCE GTX 1080	GEFORCE GTX 1070	GEFORCE GTX 1060	GEFORCE GTX 1050TI
GPU Engine Specs				
Cuda Cores	2560	2048	1280	768
Base Clock (MHz)	1556	1442	1404	1493
Boost Clock (MHz)	1733	1645	1670	1620
Total Graphics Power (W)	150	115	80	64
Memory Spec				
Memory Speed(Gbps)	10	8	8	7

proizvodi.html

Manufacturers	Display	Processor	RAM	Graphics	Storage
Acer	15.6" Full HD	Intel® i7-7700HQ	Up to 32GB 2133Mhz	GeForce™ GTX 1050Ti	1TB HDD
Asus	15.6" Full HD G-Sync	Intel® i7-7820HK	Up to 32GB 2400Mhz		128GB SSD + 1TB HDD
GIGABYTE	15.6" 4K QHD G-Sync	Intel® i7-8750H	Up to 64GB 2133Mhz	GeForce™ GTX 1060	
MSI	17.3" Full HD	Intel® i7-8850H	Up to 64GB 2400Mhz	GeForce™ GTX 1070	250GB SSD + 1TB HDD
Sager	17.3" Full HD G-Sync	Intel® i7-8700K		GeForce™ GTX 1080	
	17.3" 4K QHD G-Sync	Intel® i9-8950HK		Dual GeForce™ GTX 1080	500GB SSD + 1TB HDD
	21" WFHD G-Sync				

Reset all

Acer Predator Helios 300

- 15.6" Full HD
- Intel® i7-7700HQ
- GeForce™ GTX 1060
- Up to 32GB 2133Mhzhz
- 1TB HDD
- 3+ Hours / 2.7 kg

VIEW DETAILS

Acer Predator 15

- 15.6" Full HD
- Intel® i7-7700HQ
- GeForce™ GTX 1070
- Up to 64GB 2133Mhzhz
- 250GB + 1TB HDD
- 3+ Hours / 3.7 kg

VIEW DETAILS

Acer Predator 17

- 17.3" Full HD
- Intel® i7-7
- GeForce™
- Up to 64GI
- 250GB + 1
- 3+ Hours /

.okvir
.pretraga
#linija
#dugme-reset
.okvir1
.proizvod

specifikacije.html

Acer Predator 17

Display

Display: 17.3" FHD (1920*1080), ComfyView In-plane Switching (IPS) Technology Active Matrix TFT Color LCD

Processor

Processor: Intel® Core™ i7-7700HQ 2.8 - 3.8 Ghz w/ Turbo Boost

Chipset: Intel® HM175 Chipset

#naslov
#galerija
#specifikacije

Hard Drive & Optical Drive

Standard Hard Drive: 250GB SSD + 1TB (7200RPM) HDD(Upgradeable)

Standard Optical Drive: N/A

---

contact.html

CONTACT US
Connect with us by filling next form.

Name   Email   Phone

Jhon   example@gmail.com   06x/yyyyyy(y) or 06x/yyy-yyy(y)

Subject

Subject (max characters 30)

Message

Your message max characters 300)

SEND

.pozadina
.okvir-forme
.sadrzaj-forme
.forma
.top-forma
.middle-forma
.bottom-forma

1.3.1 HTML

(kod prikazan ispod je moj lični template i koristi se na svakoj stranici. HTML kod sadržaja svake stranice biće prikazan u poglavlju 3.)

```html
<!DOCTYPE html>
<html>
<head>
        <title>LaptopArena</title>
        <meta charset="UTF-8">
        <meta name="description" content="This page is used to compare Laptops. Main purpose of this page is to be school project">
        <meta name="keywords" content="HTML,CSS,XML,JavaScript,LaptopArena,Laptop,Acer,Asus,GIGABYTE,MSI,Sager,Nvidia,Intel">
        <meta name="author" content="Nikola Radulovic">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <link rel="shortcut icon" href="slike/laptop-icon.png"/>
        <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
        <meta http-equiv="content-type" content="text/html; charset=utf-8">
        <meta name="description" content="LaptopArena"/>
        <link rel="stylesheet" type="text/css" href="css/style.css">
</head>


<body>
        <div id="header">
                <div id="sadrzajHeader">
                        <div id="divLogo">
                                <a href="index.html">
                                        <img id="logo1" src="slike/logo.png" alt="logo"/>
                                        <h1 id="logo">LaptopArena</h1>
                                </a>
                        </div>
                        <div id="divNav">
                                <ul id="menu">
                                        <li><a href="proizvodi.html" title="15" class="kaProizvodima">15" Laptops</a></li>
                                        <li><a href="proizvodi.html" title="17" class="kaProizvodima">17" Laptops</a></li>
                                        <li><a href="#">Manufacturer <span class="fa fa-caret-down" </span></a>
                                                <ul
                                                        <li><a class="kaProizvodima" title="acer" href="proizvodi.html">Acer</a></li>
                                                        <li><a class="kaProizvodima" title="asus" href="proizvodi.html">Asus</a></li>
                                                        <li><a class="kaProizvodima" title="gigabyte" href="proizvodi.html">GIGABYTE</a></li>
                                                        <li><a class="kaProizvodima" title="msi" href="proizvodi.html">MSI</a></li>
```

```html
                                                <li><a class="kaProizvodima" title="sager"
            href="proizvodi.html">Sager</a></li>
                                        </ul>
                                    </li>
                                    <li><a href="contact.html">Contact</a></li>
                                </ul>
                        </div>
                </div>
        </div>
        <div id="footer">
                <div id="sadrzajFooter">
                        <p class="autor"> Design by Nikola Radulović 2010/17 - nikola.radulovic.2010.17@ict.edu.rs</p>
                        <p class="autor">&copy; 2018 LaptopArena</p>
                </div>
        </div>
        <div class="icon-bar">
                <a href="https://www.facebook.com/radool" class="facebook"><i class="fa fa-facebook"></i></a>
                <a href="https://twitter.com/" class="twitter"><i class="fa fa-twitter"></i></a>
                <a href="https://plus.google.com/discover" class="google"><i class="fa fa-google"></i></a>
                <a href="https://www.linkedin.com/in/nikola-radulovic-22baa8103/" class="linkedin"><i class="fa fa-linkedin"></i></a>
                <a href="https://www.youtube.com" class="youtube"><i class="fa fa-youtube"></i></a>
                <a href="contact.html" class="contact"><i class="fa fa-envelope"></i></a>
                <a href="documentation.pdf" class="documentation"><i class="fa fa-file-pdf-o"></i></a>
        </div>


</body>
</html>
```

1.3.2. CSS

```css
*{
padding:0px;
margin:0px;
font-family: 'Open Sans', sans-serif;
}


.okvir {
        width:1100px;
        margin:0px auto;
}


#header{
        width:100%;
        height:50px;
        background-color:#0ba39c;
        position:fixed;
```

```css
            z-index:1;
}


#footer{
        width:100%;
        background-color:#191919;
        overflow: auto;
}


#sadrzajHeader{
        width:1100px;
        height:50px;
        margin:0px auto;
}


#sadrzajFooter{
        width:1100px;
        margin:0px auto;
        padding:5px;


}


.autor{
        text-align:center;
        color:#fff;
        font-family: 'Open Sans', sans-serif;
        padding:0px;
        font-size:14px;
}

.cleaner{
        clear:both;
}

#logo1{
        float:left;
        height:50px;
}

#divLogo{
        width:290px;
        float:left;
        height:50px;
}

#logo{
```

```css
        font-size:30px;
        padding-top:5px;
        font-weight:bold;
        color:white;
        height:50px;
}

a{
        text-decoration:none;
}

#menu, #menu ul {
        padding: 0;
        margin: 0;
        list-style: none;
}

#menu li {
        float: left;
}

#menu a {
        display: inline-block;
        width:140px;
        background-color:#0ba39c;
        color:white;
        text-align:center;
        display: table-cell;
        height:50px;
    vertical-align: middle;
        font-size:18px;
        font-weight:bold;
        transition:all 0.3s ease;

}

.active a{
        font-size:200px;
}

#menu li ul {
        position: absolute;
        left: -999em;
        width: 140px;
}
```

```css
#menu li:hover ul, #menu li ul:hover {
        left:auto;
}
#menu li a:hover {
        background-color:#FF5722;
        transition:all 0.2s ease;


}



#divNav{
        height:50px;
        float:right;
}

#scrollToTop
{
        background:#0ba39c;
        padding-left:10px;
        padding-right:10px;
        position:fixed;
        right:50px;
        bottom:0px;
        display:none;
        color:white;
}

#scrollToTop:hover{
        background-color:#FF5722;

}

.icon-bar {
 position: fixed;
 top: 60%;
 -webkit-transform: translateY(-50%);
 -ms-transform: translateY(-50%);
 transform: translateY(-50%);
}

.icon-bar a {
 display: block;
 text-align: center;
 padding: 10px;
 transition: all 0.3s ease;
 color: white;
```

```css
  font-size: 22px;
}

.icon-bar a:hover {
  background-color: #FF5722;
  color:black;
}

.facebook {
  background: #3B5998;
  color: white;
}

.twitter {
  background: #55ACEE;
  color: white;
}

.google {
  background: #dd4b39;
  color: white;
}

.linkedin {
  background: #007bb5;
  color: white;
}

.youtube {
  background: #bb0000;
  color: white;
}

.contact{
  background: #0ba39c;
  color: white;
}
.documentation{
  background: #191919;
  color: white;
}
```
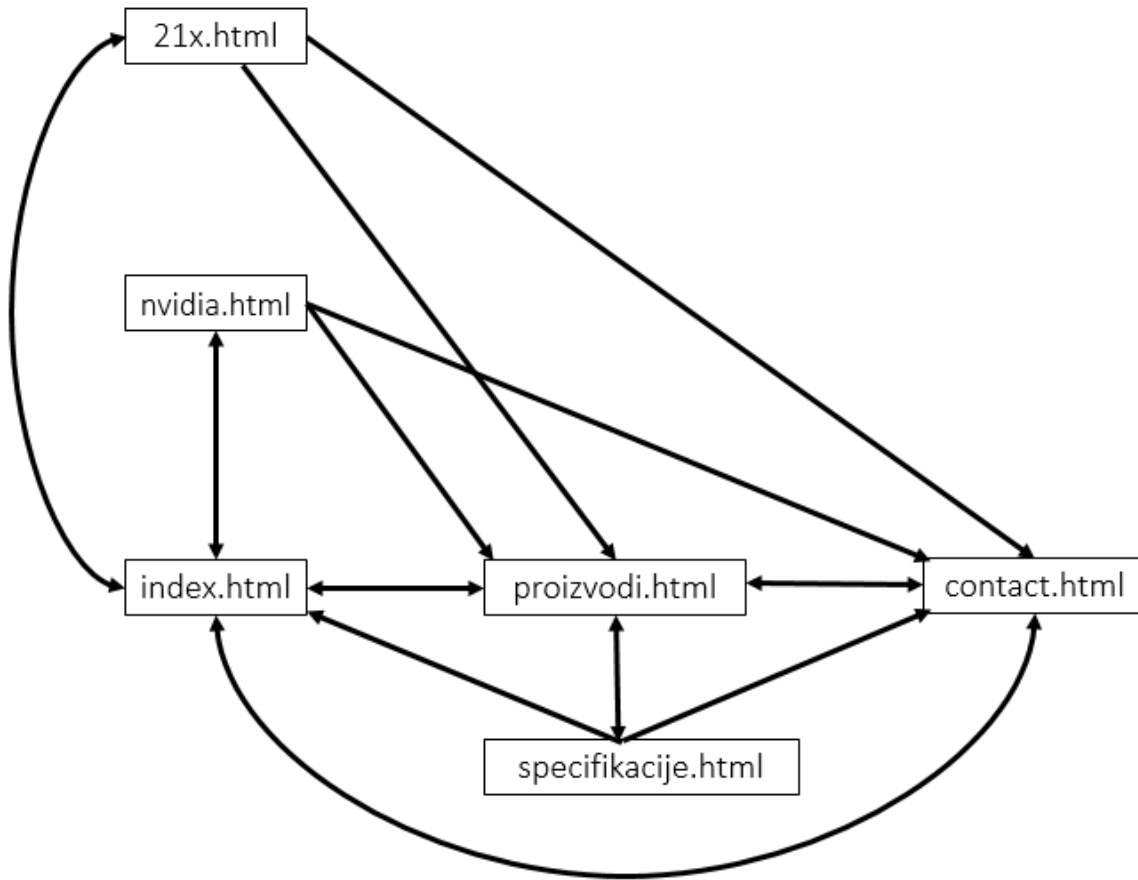
1.4. Nije korišćen "tuđi" CSS kod (osim "font-awesome.min.css" i ` jquery.fancybox.min.css `)

2. ORGANIZACIJA

2.1. Organizaciona šema

2.2. Mapa sajta

<?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">

<url>

 <loc>https://flamboyans.github.io/index.html</loc>

 <lastmod>2018-05-15T15:34:09+00:00</lastmod>

 <priority>1.00</priority>

</url>

<url>

 <loc>https://flamboyans.github.io/proizvodi.html</loc>

 <lastmod>2018-05-15T15:34:09+00:00</lastmod>

 <priority>0.80</priority>

```xml
  </url>
  <url>
   <loc>https://flamboyans.github.io/contact.html</loc>
   <lastmod>2018-05-15T15:34:09+00:00</lastmod>
   <priority>0.80</priority>
  </url>
  <url>
   <loc>https://flamboyans.github.io/nvidia.html</loc>
   <lastmod>2018-05-15T15:34:09+00:00</lastmod>
   <priority>0.80</priority>
  </url>
  <url>
   <loc>https://flamboyans.github.io/21x.html</loc>
   <lastmod>2018-05-15T15:34:09+00:00</lastmod>
   <priority>0.80</priority>
  </url>
  <url>
   <loc>https://flamboyans.github.io/intel-8th-gen.pdf</loc>
   <lastmod>2018-05-15T15:34:09+00:00</lastmod>
   <priority>0.80</priority>
  </url>
 </urlset>
```

2.3. Slike stranica i opis funkcionalnosti

2.3.1. index.html

Na ovoj stranici se nalazi dropdown menu, slider, kao i redirekcija klikom na neki od linkova **15" Laptops**, **17" Laptops** ili na neki link koji se nalazi u pod dropdown menu **(Acer, Asus, GIGABYTE, MSI, Sager)** kao i klikom na sliku na slajderu, vrši se redirektovanje na stranicu **proizvodi.html**, uz čekiranje odgovarajućih checkboxova i prikazivanje proizvoda koji odgovaraju istim. Stranica je namenjena da istakne najbitnije proizvode i da se sa nje brzo može doći do željenih proizvoda klikom na željeni link.
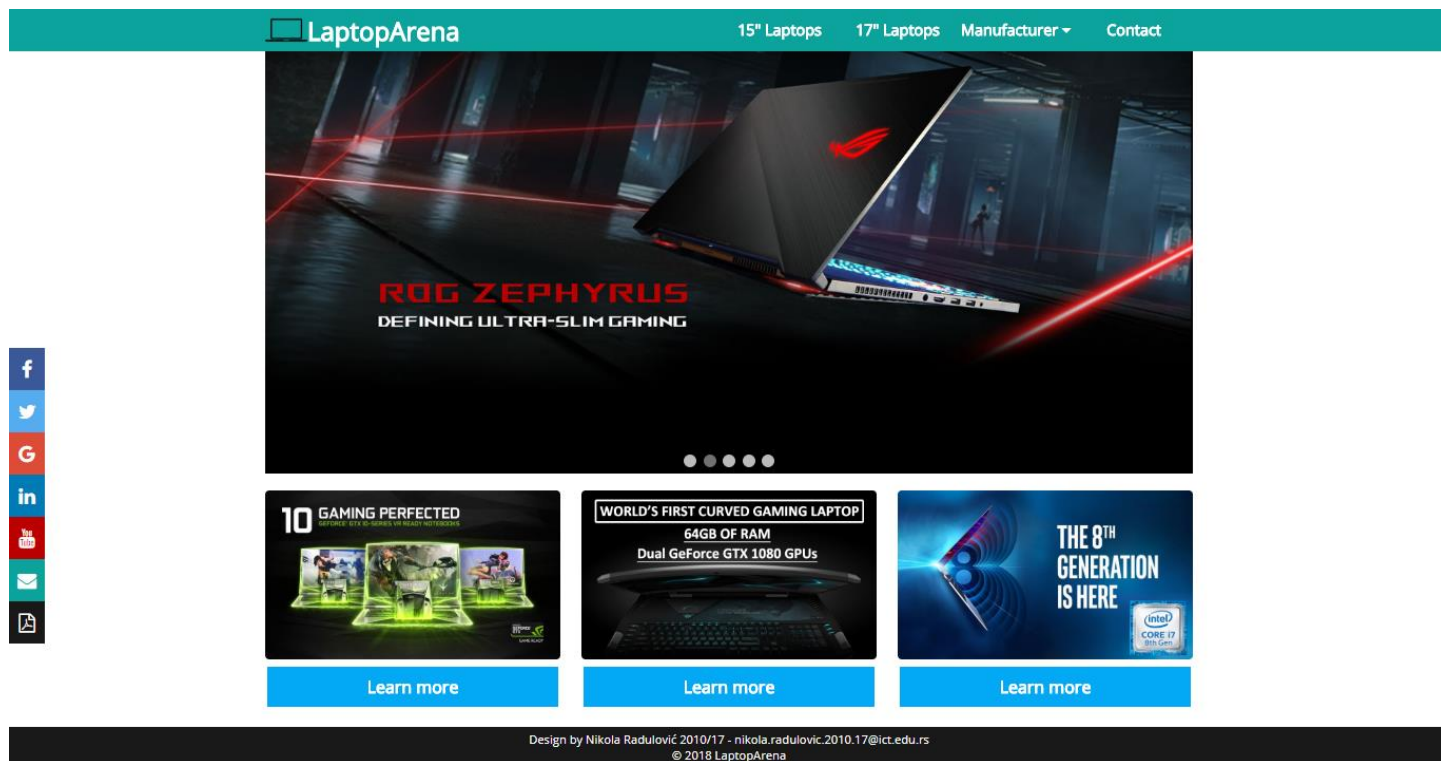
2.3.2. nvidia.html

Na stranici nvidia.html, klikom na dugme "Show more" prikazuje se dodatan sadrzaj, i ponovnim klikm na "Show less" sadržaj se uklanja. Klikom na dugme „View full specifications" otvara se na dole tabela koja ima efekat menjanja boje prilikom prelaska miša preko svakog reda koji sadrži podatke. Stranica je namenjena informisanju o nekim karakteristikama nvidia grafičkih kartica.

MAX-Q DESIGN

Max-Q design is an innovative approach to designing the world's thinnest, fastest, and quietest gaming laptops.

Show more

NVIDIA GEFORCE GTX

VR READY

Game with next-generation VR performance, the lowest latency, and plug-and-play compatibility with leading headsets—driven by NVIDIA VRWorks™ technologies. VR audio, physics, and haptics let you hear and feel every moment

NVIDIA

G-SYNC™

This groundbreaking display technology delivers the smoothest gaming experience ever. G-SYNC synchronizes the display refresh rates to the GPU in your GeForce GTX-powered laptop, eliminating screen tearing and minimizing display stutter and input lag.
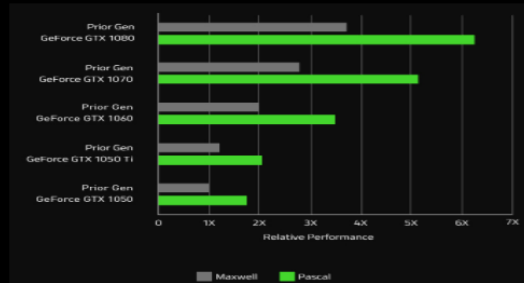
NVIDIA

BATTERY BOOST

Lose the laptop charger and game on the go. BatteryBoost™ delivers the performance and extended battery life you need to outgun your opponents.

NVIDIA
WHISPER**MODE**

This new, ultra efficient mode makes your plugged-in laptop run much quieter while gaming. It intelligently paces the game's frame rate while simultaneously configuring the graphics settings for optimal power-efficiency.

GAME PERFORMANCE

eForce GTX 10 Series Laptops powered by NVIDIA Pascal™ give you amazing speed and power efficiency. *Perfomance average across AAA titles @ 4k, High Setting. Prior gen Maxwell - GTX 980, GTX980M, GTX970M

Prior Gen GeForce GTX 1080
Prior Gen GeForce GTX 1070
Prior Gen GeForce GTX 1060
Prior Gen GeForce GTX 1050 Ti
Prior Gen GeForce GTX 1050

Relative Performance

Maxwell   Pascal

Hide specifications

GEFORCE GTX 10-SERIES LAPTOPS

	GEFORCE GTX 1080	GEFORCE GTX 1070	GEFORCE GTX 1060	GEFORCE GTX 1050TI
GPU Engine Specs				
Cuda Cores	2560	2048	1280	768
Base Clock (MHz)	1556	1442	1404	1493
Boost Clock (MHz)	1733	1645	1670	1620
Total Graphics Power (W)	150	115	80	64
Memory Spec				
Memory Speed(Gbps)	10	8	8	7
Standard Memory Config	8 GB GDDR5X	8 GB GDDR5	Up to 6 GB GDDR5	Up to 4 GB GDDR5
Memory Interface Width	256-bit	256-bit	192-bit	128-bit
Memory Bandwidth (GB/sec)	320	256	192	112
Technology Support				
NVIDIA WhisperMode	Yes	Yes	Yes	No
Multi Projection	Yes	Yes	Yes	Yes
VR Ready1	Yes	Yes	Yes	No
NVIDIA Ansel	Yes	Yes	Yes	Yes
NVIDIA SLI® Ready1	Yes	Yes	No	No
NVIDIA G-Sync™-Support1	Yes	Yes	Yes	Yes
NVIDIA BatteryBoost™	Yes	Yes	Yes	Yes
NVIDIA Optimus technology1	Yes	Yes	Yes	Yes
NVIDIA GameStream™-Ready	Yes	Yes	Yes	Yes
NVIDIA GPU Boost™ 3.0	Yes	Yes	Yes	Yes
Microsoft DirectX 12	Yes	Yes	Yes	Yes
Vulkan	Yes	Yes	Yes	Yes
OpenGL 4.5	Yes	Yes	Yes	Yes
Bus Support	PCI Express 3.0	PCI Express 3.0	PCI Express 3.0	PCI Express 3.0
OS Certification	Windows 7-10, Linux, FreeBSD x86	Windows 7-10, Linux, FreeBSD x86	Windows 7-10, Linux, FreeBSD x86	Windows 7-10, Linux, FreeBSD x86
Display Support				
DP1.4, HDMI 2.0b, DL-DVI	Yes	Yes	Yes	Yes
HDCP 2.2	Yes	Yes	Yes	Yes
Display Support				
Total Graphics Power (W)	90 – 110	80 - 90	60 – 70	40-46
Efficiency Enhancement	1.5x	1.33x	1.25x	1.45x
Base Clock (Mhz)	1101 – 12903	1101 – 12153	1063 – 12653	1151 – 12903
Boost Clock (Mhz)	1278 – 14683	1265 – 13793	1341 – 14803	1290 – 14173
Target Acoustics	40 dbA4	40 dbA4	40 dbA4	40 dbA4

2.3.3. 21x.html

Na stranici 21x.html, hover i opacity efekti prilikom prelaska miša na određene delove stranice. Nakon skrolovanja pojavljuje se dodatni navigacioni meni fiksiran u donjem delu. Klikom na određeneno polje vidljiv deo stranice se spušta do tog dela. Meni se sakriva kad se nalazimo na vrhu stranice. Stranica je namenja upoznavanju jedinstvenog laptopa sa njegovim karakteristikama.

21"

CURVED DISPLAY

The first notebook to feature a curved display leads you to a new world. A world that bends, pulls you in, and never lets go.

21×9

FURIOUSLY FAST REFRESH

Screen tearing and input lag: weaknesses the 21 X cannot abide. Keep gaming fluid and seamless with a refresh rate of 120Hz.

NVIDIA® G-SYNC™

Refuse mediocrity – include only the exceptional. NVIDIA® G-SYNC™ calms the storm of fast-paced gaming woes by eliminating screen tearing.

EYE TRACKING TECHNOLOGY

Focus on what matters – the game. Eye tracking handles natural eye movement so you spend less time jostling analog sticks and swiping mice.

tobii
EYETRACKING

IT'S JUST NATURAL

Where you look is where you aim. Natural targeting makes getting that split-second reflex shot easy with just a single glance.

INFINITE SCREEN

With infinite screens, the camera follows you as you look towards to edge of your display; rotating to give you complete situational awareness.

PREDATOR
CONQUER NEW WORLDS

MX

CHERRY MX SWITCHES

Feel the difference with each press of the mechanical keys: imbued with Cherry MX switch technology and designed explicitly for gaming with an edge.

LIGHT IT UP

What good would a top-of-the-line keyboard be without a little RGB backlighting? With PredatorSense™, you can tailor the colors to your liking.

MECHANICAL MX BROWN

Mechanical keyboards, heralded by many as essential to gaming, are tactile, responsive and have just the right amount of push without the noise.

CHERRY

FLIP-OVER MODULE

Tactile numpad and precision touchpad in one flippable device with adjustable lighting through PredatorSense™. No matter the situation, you're ready.

DIAMOND-EDGED

Every detail matters. Emblazoned and cut to diamond-edged perfection, the Predator symbol is stamped upon the cover for all to admire.

SPINNING BRIGHT

The visibly bright AeroBlade™ fan, nestled just outside your reach behind its transparent cover, lights up and spins in a color of your choosing.

2X

DUAL NVIDIA® GTX 1080

While one NVIDIA® GeForce® GTX 1080 is phenomenal, we decided on two – in SLI – because MORE. Each GPU is overclocked and eager for a challenge.

OC THAT CPU

To be the best, you need the best. Unlock real

ENOUGH MEMORY? YEP

This machine is absolutely filled to the brim

OC THAT CPU

To be the best, you need the best. Unlock real potential with the overclocked 7th Gen Intel® Core i7 processor and put the 21 X to the test.

ENOUGH MEMORY? YEP

This machine is absolutely filled to the brim with ram. With 64GB of DDR4 2400, you can push multi-tasking to the limits and then some.

5X

5-FAN COOLING SYSTEM

Be one with the cold. Exquisitely designed and deadly efficient, five fans work in unison to maintain a constant cool.

5X
AEROBLADE™

Ultrathin and all metal, three Predator AeroBlade™ fans keep your GPU/CPU at a nice, cool temp. Listen closely as they whisper, "game on, my friend. Game on."

HEAT PIPES? NINE

That's right. Nine heat pipes distribute and rid the 21 X of its excess heat. With great power, comes great heat – comes incredible cooling.

GO WITH THE FLOW

With five fans, you better believe the aerodynamic airflow is cold and fast. Before you know it, you might just forget its producing heat at all.

PREDAT

4.2
4 SPEAKERS + 2 SUBWOOFERS

Surround yourself with the superior sound of Dolby

DOLBY AUDIO™ PREMIUM

Dolby Audio™ Premium delivers rich, powerful sounds. By dynamically adjusting the audio you're given theater-like quality in a virtual surround sound experience.

DOLBY
AUDIO
PREMIUM

TRUEHARMONY™

TrueHarmony™ utilizes a unique design that offers more accurate sound reproduction and fuller-bodied audio.

FX
PREDATORSENSE™

PredatorSense™ is the ultimate tool for control. Take command over lighting, overclocking, game profiles and more. Try not to get lost amidst all the settings.

COOLBOOST™

When the going gets hot, Predator CoolBoost™ gets going. Fan speeds increase based on generated heat, keeping critical areas continually cooled.

2.3.4. proizvodi.html

Na stranici proizvodi.html prilikom učitavnja stranice vrši se dinamičko kreiranje i ispisivanje checkboxova. Takođe učitavaju se i prikazuju proizvodi iz JSON fajla preko AJAXA. Klikom na sliku, naziv ili polje „VIEW DETAILS" vrši se redirekcija na stranicu specifikacije.html i učitava se izabrani proizvod. Glavna funkcionalnost ove stranice je filtriranje proizvoda po zadatim uslovima.
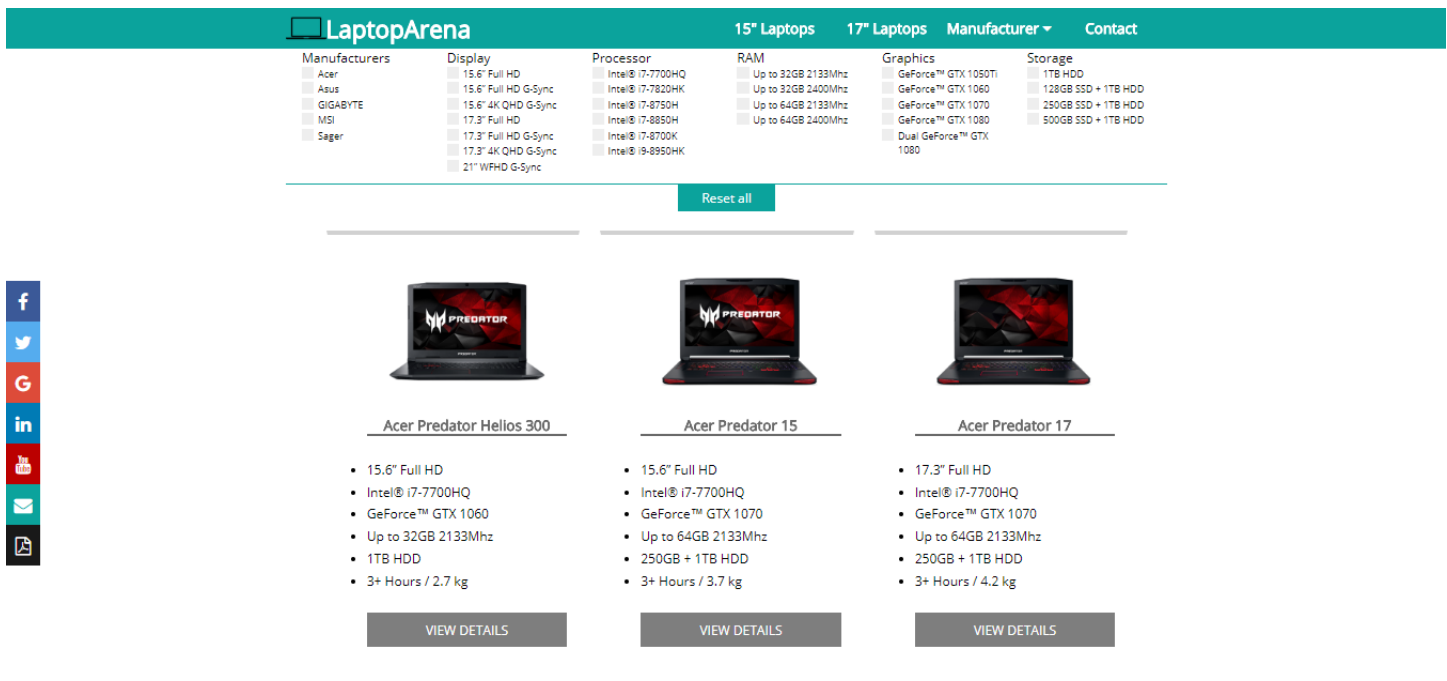
2.3.5. specifikacije.html

Ovoj strani se pristupa jedino preko strancice proizvodi.html i to kada se klikne na određeni proizvod. Klikom na proizvod vrši se redirekcija na specifikacije.html i iz JSON fajla se preko AJAXA ispisuje naziv, učitavaju se slike (koje se prikazuju kao galerija kada se klikne na sliku, preko FancyBox 3 plugin-a) i ispisuje se specifikacija za taj proizvod. Glavna karakteristika ove strane je da se detaljnije opiše izabrani proizvod (slike iz više uglova i detaljna specifikacija proizvoda).

2.3.6. contact.html

Provera regularnih izraza iz unesene forme putem javascripta i obaveštavanje korisnika ukoliko su podaci uneseni u odgovarajućem formatu i obrnutno, ukoliko nisu.

3. KODOVI

3.1. HTML

3.1.1 index.html

```html
<!DOCTYPE html>
<html>
<head>
        <title>LaptopArena</title>
        <meta charset="UTF-8">
        <meta name="description" content="This page is used to compare Laptops. Main purpose of this page is to be school project">
        <meta name="keywords" content="HTML,CSS,XML,JavaScript,LaptopArena,Laptop,Acer,Asus,GIGABYTE,MSI,Sager,Nvidia,Intel">
        <meta name="author" content="Nikola Radulovic">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <link rel="shortcut icon" href="slike/laptop-icon.png"/>
        <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
        <meta http-equiv="content-type" content="text/html; charset=utf-8">
        <meta name="description" content="LaptopArena"/>
        <link rel="stylesheet" type="text/css" href="css/style.css">
</head>
<body>
        <div id="header">
                <div id="sadrzajHeader">
                        <div id="divLogo">
                                <a href="index.html">
                                        <img id="logo1" src="slike/logo.png" alt="logo"/>
                                        <h1 id="logo">LaptopArena</h1>
                                </a>
                        </div>
                        <div id="divNav">
                                <ul id="menu">
                                        <li><a href="proizvodi.html" title="15" class="kaProizvodima">15" Laptops</a></li>
                                        <li><a href="proizvodi.html" title="17" class="kaProizvodima">17" Laptops</a></li>
                                        <li><a href="#">Manufacturer <span class="fa fa-caret-down" </span></a>
                                                <ul>
                                                        <li><a class="kaProizvodima" title="acer" href="proizvodi.html">Acer</a></li>
                                                        <li><a class="kaProizvodima" title="asus" href="proizvodi.html">Asus</a></li>
                                                        <li><a class="kaProizvodima" title="gigabyte" href="proizvodi.html">GIGABYTE</a></li>
```

```html
                                                    <li><a class="kaProizvodima" title="msi"
        href="proizvodi.html">MSI</a></li>
                                                    <li><a class="kaProizvodima" title="sager"
        href="proizvodi.html">Sager</a></li>
                                        </ul>
                                </li>
                                <li><a href="contact.html">Contact</a></li>
                        </ul>
                </div>
        </div>
</div>
<div class="cleaner">
</div>
                <div class="sviSlajdovi">
                        <div class="slajdovi fade">
                                <a href="proizvodi.html" title="acer" class="kaProizvodima"><img class="slike-slajder"
src="slike/1.jpg" alt="acer"></a>
                        </div>
                        <div class="slajdovi fade">
                                <a href="proizvodi.html" title="asus" class="kaProizvodima"><img class="slike-slajder"
src="slike/2.jpg" alt="asus" ></a>
                        </div>
                        <div class="slajdovi fade">
                                <a href="proizvodi.html" title="gigabyte" class="kaProizvodima"><img class="slike-slajder"
src="slike/3.jpg" alt="gigabyte" ></a>
                        </div>
                        <div class="slajdovi fade">
                                <a href="proizvodi.html" title="msi" class="kaProizvodima"><img class="slike-slajder"
src="slike/4.jpg" alt="msi" ></a>
                        </div>
                        <div class="slajdovi fade">
                                <a href="proizvodi.html" title="sager" class="kaProizvodima"><img class="slike-
slajder"src="slike/5.jpg" alt="sager" ></a>
                        </div>
                        <div class="krugoviOkvir" >
                                <span class="krugovi"></span>
                                <span class="krugovi"></span>
                                <span class="krugovi"></span>
                                <span class="krugovi"></span>
                                <span class="krugovi"></span>
                        </div>
                </div>
        <div class="cleaner">
        </div>
```

```html
            <div class="okvirTri">
                    <div class="okvir">
                            <div class="jedan">
                                    <img class="ivice" src="slike/slika1.jpg" alt="Nvidia" />
                                    <a href="nvidia.html">
                                            <h2 class="podNaslov">Learn more</h2>
                                    </a>
                            </div>
                            <div class="dva">
                                    <img class="ivice" src="slike/slika4.jpg" alt="Predator 21x" />
                                    <a href="21x.html">
                                            <h2 class="podNaslov">Learn more</h2>
                                    </a>
                            </div>
                            <div class="tri">
                                    <img class="ivice" src="slike/slika5.jpg" alt="Intel 8th Gen" />
                                    <a href="intel-8th-gen.pdf">
                                            <h2 class="podNaslov">Learn more</h2>
                                    </a>
                            </div>

                    </div>
            </div>
            <div class="cleaner">
            </div>


            <div id="footer">
                    <div id="sadrzajFooter">
                            <p class="autor"> Design by Nikola Radulović 2010/17 - nikola.radulovic.2010.17@ict.edu.rs</p>
                            <p class="autor">&copy; 2018 LaptopArena</p>
                    </div>
            </div>
            <div class="icon-bar">
                    <a href="https://www.facebook.com/radool" class="facebook"><i class="fa fa-facebook"></i></a>
                    <a href="https://twitter.com/" class="twitter"><i class="fa fa-twitter"></i></a>
                    <a href="https://plus.google.com/discover" class="google"><i class="fa fa-google"></i></a>
                    <a href="https://www.linkedin.com/in/nikola-radulovic-22baa8103/" class="linkedin"><i class="fa fa-linkedin"></i></a>
                    <a href="https://www.youtube.com" class="youtube"><i class="fa fa-youtube"></i></a>
                    <a href="contact.html" class="contact"><i class="fa fa-envelope"></i></a>
                    <a href="documentation.pdf" class="documentation"><i class="fa fa-file-pdf-o"></i></a>
            </div>
<script type="text/javascript" src="js/jquery-3.3.1.min.js"></script>
```

```html
<script type="text/javascript" src="js/slajder.js"></script>
</body>
</html>
```

3.1.2. nvidia.html

```html
<!DOCTYPE html>
<html>
<head>
        <title>LaptopArena - Nvidia</title>
        <meta charset="UTF-8">
        <meta name="description" content="This page is used to compare Laptops. Main purpose of this page is to be school project">
        <meta                                                              name="keywords"
content="HTML,CSS,XML,JavaScript,LaptopArena,Laptop,Acer,Asus,GIGABYTE,MSI,Sager,Nvidia,Intel">
        <meta name="author" content="Nikola Radulovic">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <link rel="shortcut icon" href="slike/laptop-icon.png"/>
        <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
        <meta http-equiv="content-type" content="text/html; charset=utf-8">
        <link rel="stylesheet" type="text/css" href="css/styleNvidia.css">
        <link rel="stylesheet" type="text/css" href="css/style.css">
</head>
<body>
        <div id="header">
                <div id="sadrzajHeader">
                        <div id="divLogo">
                                <a href="index.html">
                                        <img id="logo1" src="slike/logo.png" alt="logo"/>
                                        <h1 id="logo">LaptopArena</h1>
                                </a>
                        </div>
                        <div id="divNav">
                                <ul id="menu">
                                        <li><a href="proizvodi.html" title="15" class="kaProizvodima">15" Laptops</a></li>
                                        <li><a href="proizvodi.html" title="17" class="kaProizvodima">17" Laptops</a></li>
                                        <li><a href="#">Manufacturer <span class="fa fa-caret-down" </span></a>
                                                <ul>
                                                        <li><a                class="kaProizvodima"                title="acer"
        href="proizvodi.html">Acer</a></li>
                                                        <li><a                class="kaProizvodima"                title="asus"
        href="proizvodi.html">Asus</a></li>
                                                        <li><a                class="kaProizvodima"                title="gigabyte"
        href="proizvodi.html">GIGABYTE</a></li>
```

```html
                                                        <li><a              class="kaProizvodima"                    title="msi"
href="proizvodi.html">MSI</a></li>
                                                        <li><a              class="kaProizvodima"           title="sager"
href="proizvodi.html">Sager</a></li>
                                        </ul>
                                </li>
                                <li><a href="contact.html">Contact</a></li>
                        </ul>
                </div>
        </div>
</div>
<div class="cleaner">
</div>
<div class="nvidia">
        <div class="okvir">
                <div class="nvidia-deo odmaknut">
                        <div class="nvidia-slika">
                                <img class="nvidia-slika-dimenzije" src="slike/nvidia/nvidia4.jpg" alt="laptop">
                        </div>
                        <div class="nvidia-tekst">
                                <div class="nvidia-tekst-sadrzaj">
                                        <h2 class="nvidia-naslov">MAX-Q DESIGN</h2>
                                        <p>Max-Q design is an innovative approach to designing the world's thinnest,
fastest, and quietest gaming laptops.</p>
                                        <p id="sakrij">For the first time ever, all GeForce GTX GPUs are available in
laptops as thin as 18mm. It's all made possible by Max-Q, an innovative approach to designing the world's thinnest, fastest, and quietest
gaming laptops. Everything's engineered for the ultimate thin gaming laptop experience, including the laptop, chip, drivers, thermal and
electrical components, and more.</p>
                                        <input type="button" value="Show more" class="taster" id="maxq">
                                </div>
                        </div>
                </div>
                <div class="nvidia-deo">

                        <div class="nvidia-tekst">
                                <div class="nvidia-tekst-sadrzaj">
                                        <img src="slike/nvidia/vr-ready.png" alt="VRready"/>
                                        <p>Game with next-generation VR performance, the lowest latency, and plug-and-
play compatibility with leading headsets—driven by NVIDIA VRWorks™ technologies. VR audio, physics, and haptics let you hear and
feel every moment</p>
                                </div>
                        </div>
                        <div class="nvidia-slika">
                                <img src="slike/nvidia/nvidia5.jpg" class="nvidia-slika-dimenzije" alt="laptop">
                        </div>
```

```html
            </div>
            <div class="nvidia-deo">
                    <div class="nvidia-slika">
                            <img src="slike/nvidia/nvidia6.jpg"  class="nvidia-slika-dimenzije" alt="laptop">
                    </div>
                    <div class="nvidia-tekst">
                            <div class="nvidia-tekst-sadrzaj">
                                    <img src="slike/nvidia/g-sync.png" alt="G-SYNC"/>
                                    <p>This groundbreaking display technology delivers the smoothest gaming
experience ever. G-SYNC synchronizes the display refresh rates to the GPU in your GeForce GTX-powered laptop, eliminating screen
tearing and minimizing display stutter and input lag.</p>
                            </div>
                    </div>
            </div>
            <div class="nvidia-deo">


                    <div class="nvidia-tekst">
                            <div class="nvidia-tekst-sadrzaj">
                                    <img src="slike/nvidia/battery.png" alt="BatteryBoost™"/>
                                    <p>Lose the laptop charger and game on the go. BatteryBoost™ delivers the
performance and extended battery life you need to outgun your opponents.</p>
                            </div>
                    </div>
                    <div class="nvidia-slika">
                            <img src="slike/nvidia/nvidia7.jpg" class="nvidia-slika-dimenzije"  alt="laptop">
                    </div>
            </div>
            <div class="nvidia-deo">
                    <div class="nvidia-slika">
                            <img src="slike/nvidia/nvidia8.jpg" class="nvidia-slika-dimenzije"  alt="laptop">
                    </div>
                    <div class="nvidia-tekst">
                            <div class="nvidia-tekst-sadrzaj">
                                    <img src="slike/nvidia/whisper.png" alt="whisper"/>
                                    <p>This new, ultra efficient mode makes your plugged-in laptop run much quieter
while gaming. It intelligently paces the game's frame rate while simultaneously configuring the graphics settings for optimal power-
efficiency.</p>
                            </div>
                    </div>
            </div>
            <div class="nvidia-deo kraj">
                    <div class="nvidia-slika" >
                            <img src="slike/nvidia/nvidia9.jpg"  class="nvidia-slika-dimenzije" alt="laptop">
                    </div>
```

```
                    <div class="nvidia-tekst">

                        <div class="nvidia-tekst-sadrzaj">

                            <h3 class="nvidia-naslov">GAME PERFORMANCE</h3>

                            <p>eForce GTX 10 Series Laptops powered by NVIDIA Pascal™ give you
amazing speed and power efficiency. *Perfomance average across AAA titles @ 4k, High Setting. Prior gen Maxwell - GTX 980,
GTX980M, GTX970M</p>

                        </div>

                    </div>

                </div>

                <div class="dugme">

                    <input type="button" value="View full specifications" class="taster" id="nvidiaSpec">

                </div>

                <div id="nvidia-tabela-spec">

                </div>

            </div>

        </div>

        <div id="footer">

            <div id="sadrzajFooter">

                <p class="autor"> Design by Nikola Radulović 2010/17 - nikola.radulovic.2010.17@ict.edu.rs</p>

                <p class="autor">&copy; 2018 LaptopArena</p>

            </div>

        </div>

        <div class="icon-bar">

            <a href="https://www.facebook.com/radool" class="facebook"><i class="fa fa-facebook"></i></a>

            <a href="https://twitter.com/" class="twitter"><i class="fa fa-twitter"></i></a>

            <a href="https://plus.google.com/discover" class="google"><i class="fa fa-google"></i></a>

            <a href="https://www.linkedin.com/in/nikola-radulovic-22baa8103/" class="linkedin"><i class="fa fa-linkedin"></i></a>

            <a href="https://www.youtube.com" class="youtube"><i class="fa fa-youtube"></i></a>

            <a href="contact.html" class="contact"><i class="fa fa-envelope"></i></a>

            <a href="documentation.pdf" class="documentation"><i class="fa fa-file-pdf-o"></i></a>

        </div>

        <div class="cleaner">

        </div>

        <div id="scrollToTop"><i class="fa fa-angle-up fa-3x"></i><div>

<script type="text/javascript" src="js/jquery-3.3.1.min.js"></script>

<script type="text/javascript" src="js/nvidia.js"></script>

</body>

</html>
```

3.1.3. 21x.html

```
<!DOCTYPE html>

<html>
```

```html
<head>
    <title>LaptopArena - Predator 21x</title>
    <meta charset="UTF-8">
    <meta name="description" content="This page is used to compare Laptops. Main purpose of this page is to be school project">
    <meta name="keywords" content="HTML,CSS,XML,JavaScript,LaptopArena,Laptop,Acer,Asus,GIGABYTE,MSI,Sager,Nvidia,Intel">
    <meta name="author" content="Nikola Radulovic">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="shortcut icon" href="slike/laptop-icon.png"/>
    <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">
    <link href="https://fonts.googleapis.com/css?family=Roboto" rel="stylesheet">
    <link href="https://fonts.googleapis.com/css?family=Play" rel="stylesheet">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
    <meta http-equiv="content-type" content="text/html; charset=utf-8">
    <link rel="stylesheet" type="text/css" href="css/stylePredator.css">
    <link rel="stylesheet" type="text/css" href="css/style.css">
</head>
    <body>
        <div id="header">
            <div id="sadrzajHeader">
                <div id="divLogo">
                    <a href="index.html">
                        <img id="logo1" src="slike/logo.png" alt="logo" />
                        <h1 id="logo">LaptopArena</h1>
                    </a>
                </div>
                <div id="divNav">
                    <ul id="menu">
                        <li><a href="proizvodi.html" title="15" class="kaProizvodima">15" Laptops</a></li>
                        <li><a href="proizvodi.html" title="17" class="kaProizvodima">17" Laptops</a></li>
                        <li><a href="#">Manufacturer <span class="fa fa-caret-down" </span></a>
                            <ul>
                                <li><a class="kaProizvodima" title="acer" href="proizvodi.html">Acer</a></li>
                                <li><a class="kaProizvodima" title="asus" href="proizvodi.html">Asus</a></li>
                                <li><a class="kaProizvodima" title="gigabyte" href="proizvodi.html">GIGABYTE</a></li>
```

```html
                                            <li><a          class="kaProizvodima"          title="msi"
        href="proizvodi.html">MSI</a></li>
                                            <li><a          class="kaProizvodima"          title="sager"
        href="proizvodi.html">Sager</a></li>
                                        </ul>
                                </li>
                                <li><a href="contact.html">Contact</a></li>
                        </ul>
                </div>
        </div>
        </div>
        <div class="cleaner">
        </div>
        <div class="predator">
                <div class="okvir">
                        <div class="region" id="display">
                                <div class="region-tekst-desno">
                                        <img src="slike/21x/21inch.svg" alt="21inch"/>
                                        <h2>CURVED DISPLAY </h2>
                                        <p >The first notebook to feature a curved display leads you to a new world. A
        world that bends, pulls you in, and never lets go.</p>
                                        <img class="sirina326" src="slike/21x/21-9.PNG" alt="21inch"/>
                                        <h2>FURIOUSLY FAST REFRESH</h2>
                                        <p>Screen tearing and input lag: weaknesses the 21 X cannot abide. Keep gaming
        fluid and seamless with a refresh rate of 120Hz.</p>
                                        <h2>NVIDIA® G-SYNC™</h2>
                                        <p>Refuse mediocrity – include only the exceptional. NVIDIA® G-SYNC™ calms
        the storm of fast-paced gaming woes by eliminating screen tearing.</p>
                                </div>
                        </div>
                        <div class="region" id="eyetracking">
                                <div class="region-tekst-desno" >
                                        <h2>EYE TRACKING TECHNOLOGY </h2>
                                        <p >Focus on what matters – the game. Eye tracking handles natural eye
        movement so you spend less time jostling analog sticks and swiping mice.</p>
                                        <img src="slike/21x/tobii.svg" alt="tobii"/>
                                        <h2>IT'S JUST NATURAL</h2>
                                        <p>Where you look is where you aim. Natural targeting makes getting that split-
        second reflex shot easy with just a single glance.</p>
                                        <h2>INFINITE SCREEN</h2>
```

```html
            <p>With infinite screen, the camera follows you as you look towards to edge of
your display; rotating to give you complete situational awareness.</p>

          </div>

      </div>

      <div class="region" id="mx">

          <div class="region-tekst-levo" >

              <img src="slike/21x/MX.svg" alt="mx"/>

              <h2>CHERRY MX SWITCHES</h2>

              <p >Feel the difference with each press of the mechanical keys: imbued with
Cherry MX switch technology and designed explicitly for gaming with an edge. </p>

              <h2>LIGHT IT UP</h2>

              <p>What good would a top-of-the-line keyboard be without a little RGB
backlighting? With PredatorSense™, you can tailor the colors to your liking. </p>

              <h2>MECHANICAL MX BROWN </h2>

              <p>Mechanical keyboards, heralded by many as essential to gaming, are tactile,
responsive and have just the right amount of push without the noise.</p>

              <img src="slike/21x/cherry.svg" alt="cherry"/>

          </div>

          <div id="cherry">

              <img src="slike/21x/cherry_mx1.jpg" class="sirina366" alt="cherry_mx1"/>

          </div>

      </div>

      <div class="region" id="flipflop">

          <div class="flip-over" >

              <img src="slike/21x/flip_flop1.jpg" class="sirina366" alt="flip_flop"/>

          </div>

          <div class="flip-over sredina" >

              <h2>FLIP-OVER MODULE</h2>

              <p >Tactile numpad and precision touchpad in one flippable device with adjustable
lighting through PredatorSense™. No matter the situation, you're ready.</p>

          </div>

          <div class="flip-over" >

              <img src="slike/21x/flip_flop2.jpg" class="sirina366" alt="flip_flop"/>

          </div>

      </div>

      <div class="region" id="diamond">

          <div class="flip-over ivica" >

              <h2>DIAMOND-EDGED</h2>

              <p >Every detail matters. Emblazoned and cut to diamond-edged perfection, the
Predator symbol is stamped upon the cover for all to admire.</p>
```

```html
            </div>
            <div class="flip-over" >
                <img src="slike/21x/diamond.jpg" class="sirina366" alt="diamond"/>
            </div>
            <div class="flip-over ivica" >
                <h2>SPINNING BRIGHT</h2>
                <p >The visibly bright AeroBlade™ fan, nestled just outside your reach behind its
transparent cover, lights up and spins in a color of your choosing.</p>
            </div>
        </div>
        <div class="region" id="dualgtx">
            <div class="region-tekst-desno">
                <img src="slike/21x/2X.svg" alt="dual-gtx"/>
                <h2>DUAL NVIDIA® GTX 1080</h2>
                <p >While one NVIDIA® GeForce® GTX 1080 is phenomenal, we decided on two
– in SLI – because MORE. Each GPU is overclocked and eager for a challenge.</p>
                <img src="slike/21x/dual.PNG" class="sirina326" alt="dual-gtx"/>
            </div>
        </div>
        <div class="region" id="oc">
            <div class="flip-over tekst-sredina" >
                <h2>OC THAT CPU</h2>
                <p >To be the best, you need the best. Unlock real potential with the overclocked
7th Gen Intel® Core i7 processor and put the 21 X to the test. </p>
            </div>
            <div class="tekst-desno" >
                <h2>ENOUGH MEMORY? YEP</h2>
                <p >This machine is absolutely filled to the brim with ram. With 64GB of DDR4
2400, you can push multi-tasking to the limits and then some.</p>
            </div>
        </div>
        <div class="region" id="fan">
            <div class="region-tekst-desno" >
                <img src="slike/21x/5X.svg" alt="5x"/>
                <h2>5-FAN COOLING SYSTEM</h2>
                <p >Be one with the cold. Exquisitely designed and deadly efficient, five fans work
in unison to maintain a constant cool.</p>
                <img src="slike/21x/fan_location.PNG" class="sirina326" alt="fan"/>
            </div>
        </div>
```

```html
<div class="region" id="aeroblade">
	<div class="region-tekst-levo">
		<img src="slike/21x/5X.svg" alt="5x"/>
		<h2>AEROBLADE™</h2>
		<p >Ultrathin and all metal, three Predator AeroBlade™ fans keep your GPU/CPU at a nice, cool temp. Listen closely as they whisper, "game on, my friend. Game on."</p>
		<h2>HEAT PIPES? NINE</h2>
		<p>That's right. Nine heat pipes distribute and rid the 21 X of its excess heat. With great power, comes great heat – comes incredible cooling.</p>
		<h2>GO WITH THE FLOW</h2>
		<p>With five fans, you better believe the aerodynamic airflow is cold and fast. Before you know it, you might just forget its producing heat at all.</p>
	</div>
</div>
<div class="region" id="sound">
	<div class="region-tekst-desno" >
		<img src="slike/21x/4-2.svg" alt="4.2 sound"/>
		<h2>4 SPEAKERS + 2 SUBWOOFERS</h2>
		<p >Surround yourself with the superior sound of Dolby Audio™ Premium, blaring through a four speaker/two woofer setup. Things are about to get loud.</p>
		<h2>IT JUST SOUNDS SO GOOD</h2>
		<p >Hear more – more sounds, more clarity, more range, more EVERYTHING. A 3-way Hi-Fi design makes sure what you hear is clean, crisp and weighted with bass.</p>
	</div>
</div>
<div class="region" id="dolby">
	<div class="tekst-levo" >
		<h2>DOLBY AUDIO™ PREMIUM</h2>
		<p >Dolby Audio™ Premium delivers rich, powerful sounds. By dynamically adjusting the audio you're given theater-like quality in a virtual surround sound experience.</p>
		<img src="slike/21x/dolby-logo.svg" alt="logo"/>
	</div>
	<div class="tekst-desno" >
		<h2>TRUEHARMONY™</h2>
		<p >TrueHarmony™ utilizes a unique design that offers more accurate sound reproduction and fuller-bodied audio.</p>
		<img src="slike/21x/TRUEHARMONY.svg" alt="TRUEHARMONY"/>
	</div>
</div>
<div class="region" id="sense">
```

```html
            <div class="region-tekst-levo">

                    <img src="slike/21x/FX.svg" alt="fx"/>

                    <h2>PREDATORSENSE™</h2>

                    <p >PredatorSense™ is the ultimate tool for control. Take command over lighting,
overclocking, game profiles and more. Try not to get lost amidst all the settings.</p>

            </div>

        </div>

        <div class="region" id="coolboost">

                <div class="tekst-sredina poslednji" >

                    <h2>COOLBOOST™</h2>

                    <p >When the going gets hot, Predator CoolBoost™ gets going. Fan speeds
increase based on generated heat, keeping critical areas continually cooled.</p><br/>

                    <h2>DUSTDEFENDER™</h2>

                    <p >Care about your components? Well, so do we. Predator DustDefender™,
alongside the 5-fan cooling system, alternates airflow to prevent dust buildup.</p>

                </div>

                <div class="slika-desno" >

                    <img src="slike/21x/dust.jpg" class="sirina366" alt="dust-defender"/>

                </div>

        </div>

        <div class="region" id="case">

                <div class="region-tekst-desno" >

                    <img src="slike/21x/21_X.svg" alt="case"/>

                    <h2>PROTECTOR CASE™</h2>

                    <p >Solid. Tough. Really functional. These are just a few of the ways to describe
the 21 X's customized Pelican™ carrying case.</p>

                    <h2>ROLL WITH THE BEST</h2>

                    <p >Four polyurethane wheels with stainless steel bearings are pretty much
guaranteed to give you the amount of travel time you've come to expect from a case of this caliber.</p>

                    <img src="slike/21x/PELICAN_logo.svg" alt="pelican"/>

                </div>

        </div>

        <div class="region" id="clean">

                <div class="tekst-sredina poslednji" >

                    <h2>KEEP IT CLEAN</h2>

                    <p >The case itself is watertight, crushproof and dustproof. Even if your 21 X
wanted a little grime, it just wouldn't be possible.</p><br/>

                    <h2>A PLACE FOR EVERYTHING</h2>

                    <p >Despite its size, you might occasionally need to travel with the 21 X.
Fortunately, there's convenient placement for everything you need including the machine itself.</p>
```

```html
                    </div>
                    <div class="slika-desno" >
                            <img src="slike/21x/case2.jpg" class="sirina366" alt="case"/>
                    </div>
            </div>
        </div>
        </div>
        <div id="predator-navigacija">
                    <label class="toThe" id="toDisplay">DISPLAY</label>
                    <label class="toThe" id="toEyetracking">EYE TRACKING</label>
                    <label class="toThe" id="toMx">MX CHERRY</label>
                    <label class="toThe" id="toFlipflop">FLIP-OVER</label>
                    <label class="toThe" id="toDiamond">DIAMOND-EDGED</label>
                    <label class="toThe" id="toDualgtx">DUAL GTX1080</label>
                    <label class="toThe" id="toOc">CPU</label>
                    <label class="toThe" id="toFan">5-FAN</label>
                    <label class="toThe" id="toAeroblade">AEROBLADE</label>
                    <label class="toThe" id="toSound">SPEAKERS</label>
                    <label class="toThe" id="toDolby">DOLBY/TRUEHARMONY</label>
                    <label class="toThe" id="toSense">PREDATORSENSE</label>
                    <label class="toThe" id="toCoolboost">COOLBOOST</label>
                    <label class="toThe" id="toCase">CASE</label>
                    <label class="toThe" id="toClean">KEEP IT CLEAN</label>
        </div>
        <div id="footer">
            <div id="sadrzajFooter">
                    <p class="autor"> Design by Nikola Radulović 2010/17 - nikola.radulovic.2010.17@ict.edu.rs</p>
                    <p class="autor">&copy; 2018 LaptopArena</p>
            </div>
        </div>
        <div class="icon-bar">
            <a href="https://www.facebook.com/radool" class="facebook"><i class="fa fa-facebook"></i></a>
            <a href="https://twitter.com/" class="twitter"><i class="fa fa-twitter"></i></a>
            <a href="https://plus.google.com/discover" class="google"><i class="fa fa-google"></i></a>
            <a    href="https://www.linkedin.com/in/nikola-radulovic-22baa8103/"    class="linkedin"><i    class="fa    fa-
linkedin"></i></a>
            <a href="https://www.youtube.com" class="youtube"><i class="fa fa-youtube"></i></a>
            <a href="contact.html" class="contact"><i class="fa fa-envelope"></i></a>
```

```
                <a href="documentation.pdf" class="documentation"><i class="fa fa-file-pdf-o"></i></a>

            </div>

            <div class="cleaner">

            </div>

            <div id="scrollToTop"><i class="fa fa-angle-up fa-3x"></i><div>
<script type="text/javascript" src="js/jquery-3.3.1.min.js"></script>

<script type="text/javascript" src="js/predator.js"></script>

</body>

</html>
```

3.1.4. proizvodi.html

```
<!DOCTYPE html>

<html>

<head>

        <title>LaptopArena - Main</title>

        <meta charset="UTF-8">

        <meta name="description" content="This page is used to compare Laptops. Main purpose of this page is to be school project">

        <meta                                                                          name="keywords"
content="HTML,CSS,XML,JavaScript,LaptopArena,Laptop,Acer,Asus,GIGABYTE,MSI,Sager,Nvidia,Intel">

        <meta name="author" content="Nikola Radulovic">

        <meta name="viewport" content="width=device-width, initial-scale=1.0">

        <link rel="shortcut icon" href="slike/laptop-icon.png"/>

        <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">

        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

        <meta http-equiv="content-type" content="text/html; charset=utf-8">

        <link rel="stylesheet" type="text/css" href="css/style.css">

</head>

        <body>

            <div id="header">

                <div id="sadrzajHeader">

                    <div id="divLogo">

                        <a href="index.html">

                            <img id="logo1" src="slike/logo.png" alt="logo" />

                            <h1 id="logo">LaptopArena</h1>

                        </a>

                    </div>

                    <div id="divNav">

                        <ul id="menu">

                            <li id="15"><a href="#">15" Laptops</a></li>

                            <li id="17"><a href="#">17" Laptops</a></li>

                            <li ><a href="#">Manufacturer <span class="fa fa-caret-down" </span></a>
```

```html
                    <ul>
                        <li id="acer">            <a href="#">Acer</a></li>
                        <li id="asus">            <a href="#">Asus</a></li>
                        <li id="gigabyte"> <a href="#">GIGABYTE</a></li>
                        <li id="msi">             <a href="#">MSI</a></li>
                        <li id="sager">           <a href="#">Sager</a></li>
                    </ul>
                </li>
                <li><a href="contact.html">Contact</a></li>
            </ul>
        </div>
    </div>
</div>
<div class="cleaner">
</div>
<div class="okvir">
        <div class="pretraga " >
            <span class="naslovChbx">Manufacturers</span>
            <div id="proizvodjac">
            </div>
        </div>
        <div class="pretraga " >
            <span class="naslovChbx">Display</span>
            <div id="display"></div>
        </div>
        <div class="pretraga" >
            <span class="naslovChbx">Processor</span>
            <div id="cpu"></div>
        </div>
        <div class="pretraga" >
            <span class="naslovChbx">RAM</span>
            <div id="ram"></div>
        </div>
        <div class="pretraga" >
            <span class="naslovChbx">Graphics</span>
            <div id="gpu"></div>
        </div>
        <div class="pretraga" >
            <span class="naslovChbx">Storage</span>
            <div id="storage"></div>
        </div>
    <div class="cleaner">
```

```
            </div>
            <div id="linija"></div>
            <div id="dugme-reset">
                    <input type="button" value="Reset all" class="reset">
            </div>
            <div class="okvir1" id="laptop">
            </div>
        </div>
        <div id="footer">
            <div id="sadrzajFooter">
                    <p class="autor"> Design by Nikola Radulović 2010/17 - nikola.radulovic.2010.17@ict.edu.rs</p>
                    <p class="autor">&copy; 2018 LaptopArena</p>
            </div>
        </div>
        <div class="icon-bar">
            <a href="https://www.facebook.com/radool" class="facebook"><i class="fa fa-facebook"></i></a>
            <a href="https://twitter.com/" class="twitter"><i class="fa fa-twitter"></i></a>
            <a href="https://plus.google.com/discover" class="google"><i class="fa fa-google"></i></a>
            <a    href="https://www.linkedin.com/in/nikola-radulovic-22baa8103/"    class="linkedin"><i    class="fa    fa-
linkedin"></i></a>
            <a href="https://www.youtube.com" class="youtube"><i class="fa fa-youtube"></i></a>
            <a href="contact.html" class="contact"><i class="fa fa-envelope"></i></a>
            <a href="documentation.pdf" class="documentation"><i class="fa fa-file-pdf-o"></i></a>
        </div>
        <div class="cleaner">
        </div>
        <div id="scrollToTop"><i class="fa fa-angle-up fa-3x"></i><div>
<script type="text/javascript" src="js/jquery-3.3.1.min.js"></script>
<script type="text/javascript" src="js/skript.js"></script>
</body>
</html>
```

3.1.5. specifikacije.html

```
<!DOCTYPE html>
<html>
    <head>
        <title>LaptopArena - Specifications</title>
        <meta charset="UTF-8">
        <meta name="description" content="This page is used to compare Laptops. Main purpose of this page is to be school
project">
        <meta                                                                                          name="keywords"
content="HTML,CSS,XML,JavaScript,LaptopArena,Laptop,Acer,Asus,GIGABYTE,MSI,Sager,Nvidia,Intel">
```

```html
        <meta name="author" content="Nikola Radulovic">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <link rel="shortcut icon" href="slike/laptop-icon.png"/>
        <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Open+Sans" >
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/fancybox/3.3.5/jquery.fancybox.min.css" />
        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
        <link rel="stylesheet" type="text/css" href="css/style.css">
        <link rel="stylesheet" type="text/css" href="css/stilSpec.css">
        <link rel="stylesheet" type="text/css" href="css/jquery.fancybox.min.css">
        <script src="js/jquery-3.3.1.min.js"></script>
        <script src="https://cdnjs.cloudflare.com/ajax/libs/fancybox/3.3.5/jquery.fancybox.min.js"></script>
    </head>
    <body>
        <div id="header">
            <div id="sadrzajHeader">
                <div id="divLogo">
                    <a href="index.html">
                        <img id="logo1" src="slike/logo.png" alt="logo" />
                        <h1 id="logo">LaptopArena</h1>
                    </a>
                </div>
                <div id="divNav">
                    <ul id="menu">
                        <li><a href="proizvodi.html" title="15" class="kaProizvodima">15" Laptops</a></li>
                        <li><a href="proizvodi.html" title="17" class="kaProizvodima">17" Laptops</a></li>
                        <li><a href="#">Manufacturer <span class="fa fa-caret-down" </span></a>
                            <ul>
                                <li><a class="kaProizvodima" title="acer" href="proizvodi.html">Acer</a></li>
                                <li><a class="kaProizvodima" title="asus" href="proizvodi.html">Asus</a></li>
                                <li><a class="kaProizvodima" title="gigabyte" href="proizvodi.html">GIGABYTE</a></li>
                                <li><a class="kaProizvodima" title="msi" href="proizvodi.html">MSI</a></li>
                                <li><a class="kaProizvodima" title="sager" href="proizvodi.html">Sager</a></li>
                            </ul>
```

```html
                    </li>
                    <li><a href="contact.html">Contact</a></li>
                </ul>
            </div>
        </div>
    </div>
    <div class="cleaner">
    </div>
    <span id="naslov"></span>
    <div class="cleaner"></div>
    <div  class="okvir">
            <div class="linija"></div>
    </div>
    <div class="cleaner"></div>
    <div id="galerija">
    </div>
    <div class="cleaner"></div>
    <div  class="okvir">
            <div class="linija"></div>
    </div>
    <div id="specifikacije">
    </div>
    <div id="footer">
            <div id="sadrzajFooter">
                    <p class="autor"> Design by Nikola Radulović 2010/17 - nikola.radulovic.2010.17@ict.edu.rs</p>
                    <p class="autor">&copy; 2018 LaptopArena</p>
            </div>
    </div>
    <div class="icon-bar">
            <a href="https://www.facebook.com/radool" class="facebook"><i class="fa fa-facebook"></i></a>
            <a href="https://twitter.com/" class="twitter"><i class="fa fa-twitter"></i></a>
            <a href="https://plus.google.com/discover" class="google"><i class="fa fa-google"></i></a>
            <a    href="https://www.linkedin.com/in/nikola-radulovic-22baa8103/"    class="linkedin"><i    class="fa    fa-
linkedin"></i></a>
            <a href="https://www.youtube.com" class="youtube"><i class="fa fa-youtube"></i></a>
            <a href="contact.html" class="contact"><i class="fa fa-envelope"></i></a>
            <a href="documentation.pdf" class="documentation"><i class="fa fa-file-pdf-o"></i></a>
    </div>
```

```
            <div class="cleaner">

            </div>

            <div id="scrollToTop"><i class="fa fa-angle-up fa-3x"></i></div>

        <script type="text/javascript" src="js/jquery-3.3.1.min.js"></script>

        <script type="text/javascript" src="js/spec.js"></script>

        </body>

</html>
```

3.1.6. contact.html

```
<!DOCTYPE html>

<html>

<head>

        <title>LaptopArena - Contact</title>

        <meta charset="UTF-8">

        <meta name="description" content="This page is used to compare Laptops. Main purpose of this page is to be school project">

        <meta                                                                        name="keywords"
content="HTML,CSS,XML,JavaScript,Laptop,Laptops,Acer,Asus,GIGABYTE,MSI,Sager,Nvidia,Intel">

        <meta name="author" content="Nikola Radulovic">

        <meta name="viewport" content="width=device-width, initial-scale=1.0">

        <link rel="shortcut icon" href="slike/laptop-icon.png"/>

        <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">

        <link href="https://fonts.googleapis.com/css?family=Roboto" rel="stylesheet">

        <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

        <meta http-equiv="content-type" content="text/html; charset=utf-8">

        <meta name="description" content="LaptopArena"/>

        <link rel="stylesheet" type="text/css" href="css/style.css">

        <link rel="stylesheet" type="text/css" href="css/contact.css">

</head>

        <body>

                <div id="header">

                        <div id="sadrzajHeader">

                                <div id="divLogo">

                                        <a href="index.html">

                                                <img id="logo1" src="slike/logo.png" alt="logo" />

                                                <h1 id="logo">LaptopArena</h1>

                                        </a>

                                </div>

                                <div id="divNav">
```

```html
                                        <ul id="menu">
                                                <li><a    href="proizvodi.html"    title="15"    class="kaProizvodima">15"
Laptops</a></li>
                                                <li><a    href="proizvodi.html"    title="17"    class="kaProizvodima">17"
Laptops</a></li>
                                                <li><a href="#">Manufacturer <span class="fa fa-caret-down" </span></a>
                                                        <ul>
                                                                <li><a        class="kaProizvodima"        title="acer"
        href="proizvodi.html">Acer</a></li>
                                                                <li><a        class="kaProizvodima"        title="asus"
        href="proizvodi.html">Asus</a></li>
                                                                <li><a        class="kaProizvodima"        title="gigabyte"
        href="proizvodi.html">GIGABYTE</a></li>
                                                                <li><a        class="kaProizvodima"        title="msi"
        href="proizvodi.html">MSI</a></li>
                                                                <li><a        class="kaProizvodima"        title="sager"
        href="proizvodi.html">Sager</a></li>
                                                        </ul>
                                                </li>
                                                <li><a href="#">Contact</a></li>
                                        </ul>
                                </div>
                        </div>
                </div>
                <div class="cleaner">
                </div>
                <div class="pozadina">
                <div class="okvir-forme">
                        <div class="sadrzaj-forme">
                                <h2>CONTACT US</h2>
                                <p>Connect with us by filling next form.</p>
                        </div>
                        <div class="forma">
                                <div class="top-forma">
                                <div class="inner-forma">
                                        <div class="label" id="labelName">name</div>
                                        <input type="text" class="allInputs" id="tbName" placeholder="Jhon">
                                        <span class="error" id="errorName"><i class="fa fa-exclamation-circle"></i> Please enter
Your name</span>
                                </div>
                                <div class="inner-forma">
```

```html
                                <div class="label" id="labelEmail">email</div>
                                <input type="text" class="allInputs" id="tbEmail" placeholder="example@gmail.com">
                                <span class="error" id="errorEmail"><i class="fa fa-exclamation-circle"></i> Please enter
valid email</span>
                            </div>
                            <div class="inner-forma">
                                <div class="label" id="labelPhone">phone</div>
                                <input type="text" class="allInputs" id="tbPhone" placeholder="06x/yyyyyy(y) or 06x/yyy-
yyy(y)">
                                <span class="error" id="errorPhone"><i class="fa fa-exclamation-circle"></i> Please enter
Your phone number</span>
                            </div>
                        </div>
                        <div class="middle-forma">
                        <div class="inner-form">
                                <div class="label" id="labelSubject">subject</div>
                                <input type="text" class="allInputs" id="tbSubject" placeholder="Subject (max characters
30)">
                                <span class="error" id="errorSubject"><i class="fa fa-exclamation-circle"></i> Please enter
subject (max characters 30)</span>
                            </div>
                        </div>
                        <div class="bottom-forma">
                        <div class="inner-form">
                                <div class="label" id="labelMessage">message</div>
                                <textarea id="tbMessage" class="allInputs" placeholder="Your message max characters
300)"></textarea>
                                <span class="error" id="errorMessage"><i class="fa fa-exclamation-circle"></i> Type Your
message here (max characters 300)</span>
                            </div>
                        </div>
                        <input type="button" value="Send" class="btn" onclick="provera()">
                    </div>
            </div>
            </div>
            <div id="ispis">
            </div>
    <div id="footer">
        <div id="sadrzajFooter">
                <p class="autor"> Design by Nikola Radulović 2010/17 - nikola.radulovic.2010.17@ict.edu.rs</p>
```

```html
                    <p class="autor">&copy; 2018 LaptopArena</p>
                </div>
            </div>

                <div class="icon-bar">

                        <a href="https://www.facebook.com/radool" class="facebook"><i class="fa fa-facebook"></i></a>

                        <a href="https://twitter.com/" class="twitter"><i class="fa fa-twitter"></i></a>

                        <a href="https://plus.google.com/discover" class="google"><i class="fa fa-google"></i></a>

                        <a   href="https://www.linkedin.com/in/nikola-radulovic-22baa8103/"   class="linkedin"><i   class="fa   fa-
linkedin"></i></a>

                        <a href="https://www.youtube.com" class="youtube"><i class="fa fa-youtube"></i></a>

                        <a href="contact.html" class="contact"><i class="fa fa-envelope"></i></a>

                        <a href="documentation.pdf" class="documentation"><i class="fa fa-file-pdf-o"></i></a>

                </div>
                <div class="cleaner">
                </div>
                <div id="scrollToTop"><i class="fa fa-angle-up fa-3x"></i><div>
<script type="text/javascript" src="js/jquery-3.3.1.min.js"></script>
<script type="text/javascript" src="js/contact.js"></script>
</body>
</html>
```

3.2. CSS

3.2.1. style.css

```css
*{
padding:0px;
margin:0px;
font-family: 'Open Sans', sans-serif;
}


.jedan, .dva, .tri {
        width:350px;
        float:left;
}


.dva, .tri{
        margin-left:25px;
}
```

```css
.okvir {
        width:1100px;

        margin:0px auto;

}


#header{
        width:100%;

        height:50px;

        background-color:#0ba39c;

        position:fixed;

        z-index:1;

}


.ivice{
        border-radius:5px;

        width:350px;

        height:200px;

}
#footer{
        width:100%;

        background-color:#191919;

        overflow: auto;

}


#sadrzajHeader{
        width:1100px;

        height:50px;

        margin:0px auto;

}


#sadrzajFooter{
        width:1100px;

        margin:0px auto;

        padding:5px;


}

.autor{
```

```css
        text-align:center;

        color:#fff;

        font-family: 'Open Sans', sans-serif;

        padding:0px;

        font-size:14px;

}


.cleaner{

        clear:both;

}


#logo1{

        float:left;

        height:50px;

}


.slike-slajder{

        width:1100px;

        height:500px;

}


.okvirTri{

        width:100%;

        margin:0px auto;

        height:280px;

        padding-top:20px;

}


#divLogo{

        width:290px;

        float:left;

        height:50px;

}


#logo{

        font-size:30px;

        padding-top:5px;

        font-weight:bold;
```

```css
        color:white;

        height:50px;
}
a{

        text-decoration:none;
}


.podNaslov{

        background-color: #03A9F4;

        color: white;

        padding: 10px;

        text-align: center;

        font-size: 20px;

        margin: 4px 2px;

        opacity: 1;

        transition: 0.3s;
}


.podNaslov:hover {opacity: 0.6}


#menu, #menu ul {

        padding: 0;

        margin: 0;

        list-style: none;
}


#menu li {

        float: left;
}


#menu a {

        display: inline-block;

        width:140px;

        background-color:#0ba39c;

        color:white;

        text-align:center;

        display: table-cell;

        height:50px;
```

```css
    vertical-align: middle;
        font-size:18px;
        font-weight:bold;
        transition:all 0.3s ease;

}

.active a{
        font-size:200px;
}

#menu li ul {
        position: absolute;
        left: -999em;
        width: 140px;
}

#menu li:hover ul, #menu li ul:hover {
        left:auto;
}
#menu li a:hover {
        background-color:#FF5722;
        transition:all 0.2s ease;
}

#divNav{
        height:50px;
        float:right;
}

.proizvod{
        width:250px;
        border-top:5px solid #d1d1d1;
        border-right:1px solid white;
        border-bottom:1px solid white;
        border-left:1px solid white;
        padding:15px;
        float:left;
```

```css
        padding-left:50px;

        margin-bottom:30px;

        margin-left:25px;

        transition:0.2s;

}


.proizvod:hover{

        background-color:#f4f4f4;

        border-color:black;

}


.proizvod-specifikacije ul li  {

        list-style-type: disc;

}



.okvir1{

        padding:25px;


}

.proizvod-naslov{

        text-align:center;

        font-size:18px;

        color: #6b6b6b;

        border-bottom:2px solid #6b6b6b;

        transition:all ease 0.2s;

}


.proizvod-naslov:hover{

        color:#FF5722;

        transition:all ease 0.2s;

}


.proizvod-slika{

        display: block;

   margin-left: auto;

   margin-right: auto;

}
```

```css
.more-info{
        background-color: #7e7e7e;
        padding: 10px;
        text-align: center;
        transition: 0.5s;
        color:white;
}
.info{
        color:white;


}
.more-info:hover {
        background-color: #FF5722;
}


.razmak{
        padding-bottom:5px;
}


.dodatak{
        padding-top:30px;
}


.dodatak2{
        padding-bottom:30px
}


.podnaslovPretraga{
        width:220px;
        float:left;
        height: 20px;
        text-align:center;
        font-size:14px;
        margin-top:10px;
        margin-bottom:10px;
}
```

```css
.pretraga {
        float:left;
        font-size:12px;
        margin-bottom:10px;
        width:161px;
        padding-left:20px;
        margin-top:50px;
}

.dodatak{
        width:auto;
}

.naslovChbx{
        font-size:16px;
        color:black;

}

#rezultatPretrage{
        float:left;
        font-size:16px;
        color:#5e5e5e;
        font-weight:bold;
}

.asd{
        float:left;
        padding:5px;
}

.proizvod-specifikacije{
        height:220px;
}

.sviSlajdovi {
        width:1100px;
        height:500px;
```

```css
        padding-top:50px;

        margin:0px auto;

        position:relative;

}



.krugoviOkvir{

        position:relative;

        z-index:1000;

        margin-top:-30px;

        text-align:center;

}


.krugovi {

  height: 15px;

  width: 15px;

  margin: 0 2px;

  background-color: #bbb;

  border-radius: 50%;

  display: inline-block;

  transition: background-color 0.6s ease;

  z-index:1000;

}


.active {

  background-color: #717171;

}


.fade {

  -webkit-animation-name: fade;

  -webkit-animation-duration: 1.5s;

  animation-name: fade;

  animation-duration: 1.5s;

}


@-webkit-keyframes fade {

  from {opacity: .4}

  to {opacity: 1}
```

```css
}

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


#scrollToTop
{
         background:#0ba39c;

         padding-left:10px;

         padding-right:10px;

         position:fixed;

         right:50px;

         bottom:0px;

         display:none;

         color:white;

}


#scrollToTop:hover{

         background-color:#FF5722;


}


.icon-bar {
 position: fixed;
 top: 60%;
 -webkit-transform: translateY(-50%);
 -ms-transform: translateY(-50%);
 transform: translateY(-50%);
}


.icon-bar a {
 display: block;
 text-align: center;
 padding: 10px;
 transition: all 0.3s ease;
 color: white;
```

```css
  font-size: 22px;
}

.icon-bar a:hover {
  background-color: #FF5722;
  color:black;
}

.facebook {
  background: #3B5998;
  color: white;
}

.twitter {
  background: #55ACEE;
  color: white;
}

.google {
  background: #dd4b39;
  color: white;
}

.linkedin {
  background: #007bb5;
  color: white;
}

.youtube {
  background: #bb0000;
  color: white;
}

.contact{
  background: #0ba39c;
  color: white;
}
.documentation{
```

```css
  background: #191919;

  color: white;

}


.stillChbx {

    display: block;

    position: relative;

    padding-left: 20px;

    margin-bottom: 2px;

    cursor: pointer;

    font-size: 12px;

    -webkit-user-select: none;

    -moz-user-select: none;

    -ms-user-select: none;

    user-select: none;

}


.stillChbx input {

    opacity: 0;

    cursor: pointer;

}


.checkmark {

    position: absolute;

    top: 0;

    left: 0;

    height: 15px;

    width: 15px;

    background-color: #eee;

}


.stillChbx:hover input ~ .checkmark {

    background-color: #ccc;

}


.stillChbx input:checked ~ .checkmark {

    background-color: #2196F3;

}
```

```css
.checkmark:after {

  content: "";

  position: absolute;

  display: none;

}


.stillChbx input:checked ~ .checkmark:after {

  display: block;

}


.stillChbx .checkmark:after {

  left: 5px;

  top: 2px;

  width: 3px;

  height: 7px;

  border: solid white;

  border-width: 0 2px 2px 0;

  -webkit-transform: rotate(45deg);

  -ms-transform: rotate(45deg);

  transform: rotate(45deg);

}


#linija{

        width:100%;

        height:2px;

        background-color:#0ba39c;

}


#dugme-reset{

        margin:0px auto;

}


.reset{

  background-color: #0ba39c;

  border: none;

  color: white;

  padding:  5px 30px;
```

```css
    text-align: center;

    text-decoration: none;

    display: block;

    font-size: 16px;

    margin: 0px auto;

    transition-duration: 0.4s;

    cursor: pointer;

}


.reset:hover {

    background-color: #FF5722;

    color: black;

}
```

3.2.2. styleNvidia.css

```css
*{
        box-sizing: border-box;
    margin: 0 auto;
        color:white;
        border:none;
}
.nvidia{
        margin:0px;
        padding:0px;
        background-color:black;
}


.nvidia-deo{
        display:inline-block;
        padding:0px;
        margin:0px;
        padding-top:30px;
        padding-bottom:30px;
}


.nvidia-tekst{
```

```css
        padding-top:0px;

        float:left;

        width:450px;

        height:350px;

        background-color:black;

}


.nvidia-slika{

        padding-top:0px;

        float:left;

        width:650px;

        height:30px;

}


.nvidia-slika-dimenzije{

        width:650px;

        height:350px;

}


.nvidia-tekst-sadrzaj{

        font-family: 'Roboto', sans-serif;

        padding-top:20px;

        padding-right:10px;

        text-align: justify;

    text-justify: inter-word;

        color:#eeeeee;

}


.nvidia-naslov{

        color:#79A627;

}


.nvidia-tabela-spec{

        margin:0px auto;

}


.odmaknut{

        padding-top:60px;
```

```css
	}

p{
		padding-top:10px;
}

.boja{
		color:#76b900;
}

#Gtx10{
		color: #76b900;
	font-size: 26px;
		padding-bottom:30px;
}

th{
		height:50px;
		padding-top:15px;
}
.naslov{
		font-size:20px;
		font-weight:bold;
		text-align:left;
}

.gtx{
		font-weight:bold;
		font-size:20px;

}
td{
		height:40px;
		border:none;
		padding-right:20px;
		border:none;
}
```

```css
.polja{
        width:180px;
        border:none;
}

.polja1{
        width:250px;
        border:none;

}

.taster {
   background-color: #76b900;
   border: none;
   color: white;
   padding: 10px 32px;
   text-align: center;
   text-decoration: none;
   display: inline-block;
}

#nvidiaSpec{
        display:block;
        margin:auto;
}

.dugme{
        display:block;
        height:70px;
        background-color:black;
}

.kraj{
        margin:0 auto;
}
```

3.2.3. stylePredator.css

```css
*{
        box-sizing: border-box;
    margin: 0 auto;
        color:white;
        border:none;
}
.predator{
        background-color:#333333;
        position:relative;
        padding-top:50px;
}
.region{
        background-repeat:no-repeat;
        background-size: 100% 100%;
        position:relative;
}
#display{
        width:1100px;
        height:700px;
        background-image: url("../slike/21x/curved_display.jpg");
}

#eyetracking{
        width:1100px;
        height:450px;
        background-image: url("../slike/21x/eye_tracking.jpg");
}

#mx{
        width:1100px;
        height:700px;
        background-image: url("../slike/21x/cherry_mx.jpg");


}
#flipflop{
        width:1100px;
        height:366px;
}
```

```css
#diamond{
        width:1100px;
        height:366px;
}


#dualgtx{
        background-image: url("../slike/21x/1080_sli.jpg");
        width:1100px;
        height:700px;
}


#oc{
        background-image: url("../slike/21x/oc_cpu.jpg");
        width:1100px;
        height:366px;
}


#fan{
        background-image: url("../slike/21x/5x_fan.jpg");
        width:1100px;
        height:700px;
}


#aeroblade{
        background-image: url("../slike/21x/air_flow.jpg");
        width:1100px;
        height:700px;
}


#sound{
        background-image: url("../slike/21x/surround.jpg");
        width:1100px;
        height:700px;
}


#dolby{
        background-image: url("../slike/21x/dolby.jpg");
```

```css
        width:1100px;

        height:366px;

}


#sense{

        background-image: url("../slike/21x/sense.jpg");

        width:1100px;

        height:700px;

}


#coolboost{

        background-image: url("../slike/21x/coolboost.jpg");

        width:1100px;

        height:366px;

}


#case{

        background-image: url("../slike/21x/case1.jpg");

        width:1100px;

        height:700px;

}


#clean{

        background-image: url("../slike/21x/clean.jpg");

        width:1100px;

        height:366px;

}


.region-tekst-desno{

        width:366px;

        text-align:justify;

        float:right;

        position:absolute;

        right:0px;

        bottom:0px;

        padding:20px;

        background-color:#1E1E1E;

        position:absolute;
```

```css
		font-size:14px;

		opacity:0.8;

}


.region-tekst-levo{

		width:366px;

		text-align:justify;

		float:left;

		position:absolute;

		left:0px;

		bottom:0px;

		padding:20px;

		background-color:#1E1E1E;

		position:absolute;

		font-size:14px;

		opacity:0.8;

}


#cherry{

		position:absolute;

		right:0px;

		bottom:0px;

}


p{

		padding-bottom:10px;

}


p, h2 {

		font-family: 'Play', sans-serif;

}


h2{

		font-size:20px;

		padding-bottom:5px;

		text-align:center;

}
```

```css
.drugi-tekst{

        float:left;

}


.flip-over{

        width:366px;

        float:left;

        background-color:#1E1E1E;

}


.sredina{

        width:368px;

        height:366px;

        padding:10% 1.5%;

        text-align:justify;

}


.ivica{

        height:366px;

        text-align:justify;

        padding:10% 1.5%;

        width:367px;

}


.tekst-sredina{

        position:absolute;

        right:366px;

        bottom:0px;

        width:368px;

        height:366px;

        padding:10% 1.5%;

        text-align:justify;

}


.tekst-levo{

        position:absolute;

        left:0px;

        bottom:0px;
```

```css
		width:366px;

		height:366px;

		padding:10% 1.5%;

		text-align:justify;

}


.tekst-desno{

		position:absolute;

		right:0px;

		bottom:0px;

		height:366px;

		width:366px;

		padding:10% 1.5%;

		text-align:justify;

}


.slika-desno{

		position:absolute;

		right:0px;

		bottom:0px;

}


.poslednji{

		padding:5% 1.5%;

		background-color:black;

}


#predator-navigacija{

		width:100%;

		background-color:#0ba39c;

		position:sticky;

		bottom:0;

		display:none;

		text-align:center;

}


.toThe{

		color:black;
```

```css
        display:inline-table;

        padding:5px;

        font-size:12px;

        color:white;

}


.toThe:hover{

        background-color:#FF5722;

        cursor:pointer;

        color:black;

}


.sirina326{

        width:326px;

}


.sirina366{

        width:366px;

}
```

3.2.4. stilSpec.css

```css
table{

        background-color:white;

        border:none;

}


*{

        box-sizing: border-box;

   margin: 0 auto;

}


.naslov{

        font-weight: bold;

   line-height: 1.5;

   border-spacing: 0;

        border-spacing: 2px;

   border-color: grey;
```

```css
        color: rgb(195, 32, 38);
    font-size: medium;

}


.podnaslovSpec{
    font-size: small;
    color: rgb(153, 153, 153);
        line-height: 1.5;
    border-spacing: 0;
    border-spacing: 2px;
}


.sadrzaj1{
    font-size: small;
    color: rgb(97, 97, 97);
        font-weight:bold;
        line-height: 1.5;
        border-spacing: 2px;
    border-color: grey;
}


.sadrzaj2{
    font-size: small;
    color: rgb(153, 153, 153);
}


td{
        height:30px;
        border:none;
}


#galerija{
    display: block;
    margin-left: auto;
    margin-right: auto;
        text-align:center;
        width:800px;
}
```

```css
img{
        padding:0px;
}

#naslov{
        font-family:Arial;
        font-size:25px;
        font-weight:bold;
        color: rgb(97, 97, 97);
        text-align:center;
    display: block;
    margin-left: auto;
    margin-right: auto;
        padding-top:75px;
}

.linija{
        width:100%;
        height:2px;
        background-color:#FF5722;
        margin-bottom:20px;
        margin-top:20px;
}

.dimenzije{
        width:150px;
}
```

3.2.5. contact.css

```css
* {
 margin: 0;
 padding: 0;
 user-select: none;
}

body {
```

```css
  background: #c4e0e5;
}
.pozadina{
        background-image: url("../slike/contact.jpg");
        background-repeat:no-repeat;
        background-size: 100% 100%;
        margin:0;
        width:100%;
        height:800px;;


}


.okvir-forme {
        margin: 0px auto 0;
        width: 100%;
        max-width: 680px;
        padding: 20px;
        padding-top:60px;
        box-sizing: border-box;
}


.sadrzaj-forme {
        text-align: center;
}


.sadrzaj-forme h1 {
        letter-spacing: 1px;


}


.forma {
        width: 100%;
        margin: 25px 0;
}


.top-forma,
.middle-forma,
```

```css
.bottom-forma {
        width: 100%;
        min-height: 65px;
        margin: 10px 0;
}

.forma input[type="text"],
.forma textarea {
        border: 2px solid #fff;
        padding: 10px 5px;
        outline: none;
        border-radius: 2px;
        width: 100%;
        transition: all 0.2s ease;
}

.forma input:focus,
.forma textarea:focus {
        border-color: #4ca1af;
        outline: none;
        box-shadow: inset 0 1px 1px rgba(0, 0, 0, 0.0125),
   0 0 8px rgba(76, 161, 175, 0.5);
}

.forma .label {
        margin-bottom: 5px;
        text-transform: capitalize;
        font-size:20px;
        color:white;
}

.top-forma .inner-forma {
        width: 29.9%;
        float: left;
        margin-right: 5%;
}

.top-forma .inner-forma:last-child {
```

```css
        margin-right: 0;
}


.middle-forma {
        clear: both;
}


.bottom-forma textarea {
        height: 80px;
}


.btn {
        background: #4ca1af;
        width: 200px;
        padding: 10px 0;
        border-radius: 2px;
        border:none;
        text-align: center;
        color: #fff;
        text-transform: uppercase;
        letter-spacing: 5px;
        cursor: pointer;
}


.label{
        font-size:18px;
        font-weight:bold;
}


input[type="text"], textarea {
 background-color : #dddddd;
}


.error{
        color:red;
        font-size:14px;
}
```

```css
h2, p{

        color:#fff;

}
```

3.3. JavaScript

3.3.1. slajder.js

```javascript
var brojac = 0;

slajder();

function slajder() {

    var i;

    var slajdovi = document.getElementsByClassName("slajdovi");

    var kruzici = document.getElementsByClassName("krugovi");

    for (i = 0; i < slajdovi.length; i++) {

        slajdovi[i].style.display = "none";

    }

    brojac++;

    if (brojac > slajdovi.length) {brojac = 1}

    for (i = 0; i < kruzici.length; i++) {

        kruzici[i].className = kruzici[i].className.replace(" active", "");

    }

    slajdovi[brojac-1].style.display = "block";

    kruzici[brojac-1].className += " active";

    setTimeout(slajder, 4000);

}

$(document).ready(function(){

        $(".kaProizvodima").on( 'click', function(){

                var asd=$(this).attr("title");

                localStorage.setItem("saPocetne",asd);

        });

        $('#menu li ul').css({

                display: "none",

                left: "auto"

                });

        $('#menu li').hover(function()

                {

                        $(this).find('ul').stop(true, true).slideDown('fast');

                },
```

```
                function()
                {
                        $(this).find('ul').stop(true,true).fadeOut('fast');
                });
});
```

3.3.2. nvidia.js

```
$(document).ready(function(){
        $(".kaProizvodima").on( 'click', function(){
                var asd=$(this).attr("title");
                localStorage.setItem("saPocetne",asd);
        });


        $(function () {
                $("tr:not(:has(th))").mouseover(function () {
                        $(this).css("background","#666666");
                });
                $("tr:not(:has(th))").mouseleave(function () {
                        $(this).css("background","");
                });
        });


        $("#nvidia-tabela-spec").hide(); //incijalno sakriveno
        $("#nvidiaSpec").click(function()
        {
                if($('#nvidia-tabela-spec').is(":visible"))
                {
                        $("#nvidia-tabela-spec").slideUp();
                        $("#nvidiaSpec").val("View full specifications");
                }
                else
                {
                        $("#nvidia-tabela-spec").slideDown();
                        $("#nvidiaSpec").val("Hide specifications");
                }
        });
```

```javascript
$("#sakrij").hide();//incijalno sakriveno
$("#maxq").click(function()
{
        if($('#sakrij').is(":visible"))
        {
                $("#sakrij").slideUp();
                $("#maxq").val("Show more");
        }
        else
        {
                $("#sakrij").slideDown();
                $("#maxq").val("Show less");
        }
});


$("#scrollToTop").click(function(){
        $("html, body").animate({ scrollTop: 0 }, "slow");
        return false;
});


window.onscroll=function(){
        skrolovanje();
};
function skrolovanje(){
        if(document.documentElement.scrollTop > 500)
        {
                $("#scrollToTop").fadeIn();
        }
        else
        {
                $("#scrollToTop").fadeOut();
        }
}


$("#scrollToTop").click(function(){
        document.documentElement.scrollTop=0;
});
```

```javascript
$('#menu li ul').css({

        display: "none",

        left: "auto"

        });


$('#menu li').hover(function()

{

        $(this).find('ul').stop(true, true).slideDown('fast');

},

function()

{

        $(this).find('ul').stop(true,true).fadeOut('fast');

}

);
```

var tabela='<table cellspacing=0 border=1><th id="Gtx10" colspan=6 >GEFORCE GTX 10-SERIES LAPTOPS</th><tr></tr><th><td class="polja1"></td><td class="polja gtx">GEFORCE
GTX 1080</td><td class="polja gtx">GEFORCE
GTX 1070</td><td class="polja gtx">GEFORCE
GTX 1060</td><td class="polja gtx">GEFORCE
GTX 1050Ti</td></th></table><table cellspacing=0 border=1><th colspan=5 class="naslov">GPU Engine Specs</td><tr><td class="polja1">Cuda Cores</td><td class="polja">2560</td><td class="polja">2048</td><td class="polja">1280</td><td class="polja">768</td></tr><tr><td class="polja1">Base Clock (MHz)</td><td class="polja">1556</td><td class="polja">1442</td><td class="polja">1404</td><td class="polja">1493</td></tr><tr><td class="polja1">Boost Clock (MHz)</td><td class="polja">1733</td><td class="polja">1645</td><td class="polja">1670</td><td class="polja">1620</td></tr><tr><td class="polja1">Total Graphics Power (W)</td><td class="polja">150</td><td class="polja">115</td><td class="polja">80</td><td class="polja">64</td></tr></table><table cellspacing=0 border=1><th colspan=5 class="naslov">Memory Spec</td><tr><td class="polja1">Memory Speed(Gbps)</td><td class="polja">10</td><td class="polja">8</td><td class="polja">8</td><td class="polja">7</td></tr><tr><td class="polja1">Standard Memory Config</td><td class="polja">8 GB GDDR5X</td><td class="polja">8 GB GDDR5</td><td class="polja">Up to 6 GB GDDR5</td><td class="polja">Up to 4 GB GDDR5</td></tr><tr><td class="polja1">Memory Interface Width</td><td class="polja">256-bit</td><td class="polja">256-bit</td><td class="polja">192-bit</td><td class="polja">128-bit</td></tr><tr><td class="polja1">Memory Bandwidth (GB/sec)</td><td class="polja">320</td><td class="polja">256</td><td class="polja">192</td><td class="polja">112</td></tr></table><table cellspacing=0 border=1><th colspan=5 class="naslov">Technology Support</td><tr><td class="polja1">NVIDIA WhisperMode</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">No</td></tr> <tr><td class="polja1">Multi Projection</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr> <tr><td class="polja1">VR Ready1</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">No</td></tr> <tr> <td class="polja1">NVIDIA Ansel</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr> <tr><td class="polja1">NVIDIA SLI® Ready1</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">No</td><td class="polja">No</td></tr><tr><td class="polja1">NVIDIA G-Sync™-Support1</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr><tr><td class="polja1">NVIDIA BatteryBoost™</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr><tr><td class="polja1">NVIDIA Optimus technology1</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr><tr><td class="polja1">NVIDIA GameStream™-Ready</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr><tr><td class="polja1">NVIDIA GPU Boost™ 3.0</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr><tr><td class="polja1">Microsoft DirectX 12</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr><tr><td class="polja1">Vulkan</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr><tr><td class="polja1">OpenGL 4.5</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr><tr><td class="polja1">Bus Support</td><td class="polja">PCI Express 3.0</td><td class="polja">PCI Express 3.0</td><td class="polja">PCI Express 3.0</td><td class="polja">PCI Express 3.0</td></tr><tr><td class="polja1">OS Certification</td><td class="polja">Windows 7-10, Linux,
FreeBSD x86</td><td class="polja">Windows 7-10, Linux,
FreeBSD x86</td><td class="polja">Windows 7-10, Linux,
FreeBSD x86</td><td class="polja">Windows 7-10, Linux,
FreeBSD x86</td></tr></table><table cellspacing=0

```
border=1>          <th colspan=5 class="naslov">Display Support</td><tr><td class="polja1">DP1.4, HDMI 2.0b, DL-DVI</td><td
class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td></tr><tr><td
class="polja1">HDCP 2.2</td><td class="polja">Yes</td><td class="polja">Yes</td><td class="polja">Yes</td><td
class="polja">Yes</td></tr></table><table cellspacing=0 border=1>          <th colspan=5 class="naslov">Display Support</td><tr><td
class="polja1">Total Graphics Power (W)</td><td class="polja">90 – 110</td><td class="polja">80 - 90</td><td class="polja">60 –
70</td><td class="polja">40-46</td></tr><tr><td class="polja1">Efficiency Enhancement</td><td class="polja">1.5x</td><td
class="polja">1.33x</td><td class="polja">1.25x</td><td class="polja">1.45x</td></tr><tr><td class="polja1">Base Clock
(Mhz)</td><td class="polja">1101 – 12903</td><td class="polja">1101 – 12153</td><td class="polja">1063 – 12653</td><td
class="polja">1151 – 12903 </td></tr><tr><td class="polja1">Boost Clock (Mhz)</td><td class="polja">1278 – 14683</td><td
class="polja">1265 – 13793</td><td class="polja">1341 – 14803</td><td class="polja">1290 – 14173</td></tr><tr><td
class="polja1">Target Acoustics</td><td class="polja">40 dbA4</td><td class="polja">40 dbA4</td><td class="polja">40 dbA4</td><td
class="polja">40 dbA4</td></tr></table>';


                document.getElementById("nvidia-tabela-spec").innerHTML=tabela;

});
```

3.3.3. predator.js

```
                $(document).ready(function(){
        $(".kaProizvodima").on( 'click', function(){
                var asd=$(this).attr("title");
                localStorage.setItem("saPocetne",asd);
        });


        window.onscroll=function(){
                skrolovanje();
        };
        function skrolovanje(){
                if(document.documentElement.scrollTop > 500)
                {
                        $("#predator-navigacija").fadeIn();
                        event.preventDefault();
                }
                else
                {
                        $("#predator-navigacija").fadeOut();
                        event.preventDefault();
                }
        }


        $("#toDisplay").click(function() {
    $('html, body').stop().animate({
        scrollTop: $("#display").offset().top-50
    }, 2000);
```

```javascript
        });


        $("#toEyetracking").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#eyetracking").offset().top-50
}, 2000);
        });


        $("#toMx").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#mx").offset().top-50}, 2000);
                    return false;
        event.stopPropagation();
        });


        $("#toFlipflop").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#flipflop").offset().top-50
}, 2000);
        event.stopPropagation();
        });


        $("#toDiamond").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#diamond").offset().top-50
}, 2000);
        event.stopPropagation();
        });


        $("#toDualgtx").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#dualgtx").offset().top-50
}, 2000);
        event.stopPropagation();
        });


        $("#toOc").click(function() {
$('html, body').stop().animate({
```

```
    scrollTop: $("#oc").offset().top-50
}, 2000);
        event.stopPropagation();
        });


        $("#toFan").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#fan").offset().top-50
}, 2000);
        event.stopPropagation();
        });


        $("#toAeroblade").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#aeroblade").offset().top-50
}, 2000);
        event.stopPropagation();
        });


        $("#toSound").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#sound").offset().top-50
}, 2000);
        event.stopPropagation();
        });


        $("#toDolby").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#dolby").offset().top-50
}, 2000);
        event.stopPropagation();
        });


        $("#toSense").click(function() {
$('html, body').stop().animate({
    scrollTop: $("#sense").offset().top-50
}, 2000);
        event.stopPropagation();
```

```
    });


    $("#toCoolboost").click(function() {
$('html, body').stop().animate({
   scrollTop: $("#coolboost").offset().top-50
}, 2000);
    event.stopPropagation();
    });


    $("#toCase").click(function() {
$('html, body').stop().animate({
   scrollTop: $("#case").offset().top-50
}, 2000);
    event.stopPropagation();
    });


    $("#toClean").click(function() {
$('html, body').stop().animate({
   scrollTop: $("#clean").offset().top-50
}, 2000);
    event.stopPropagation();
    });


    $('.region-tekst-desno').hover(function()
        {
                $(this).css({"opacity":"1","transition":"0.3s"});
        },
        function()
        {
                $(this).css({"opacity":"0.8","transition":"0.3s"});
        });


    $('.region-tekst-levo').hover(function()


        {
                $(this).css({"opacity":"1","transition":"0.3s"});
        },
        function()
```

```
                    {
                            $(this).css({"opacity":"0.8","transition":"0.3s"});

                    });


            $('#menu li ul').css({

                    display: "none",

                    left: "auto"

                    });

            $('#menu li').hover(function()

                    {

                            $(this).find('ul').stop(true, true).slideDown('fast');

                            $(this).find('ul').css({"transition":"0.2"});

                    },

                    function()

                    {

                            $(this).find('ul').stop(true,true).fadeOut('fast');

                    });

});
```

3.3.4. skript.js

```
        ucitaj();


        var nizProizvodjac=new Array('Acer','Asus','GIGABYTE','MSI','Sager');

        var proizvodjac="";

                for(var i=0; i<nizProizvodjac.length; i++){

                        proizvodjac+="<label class='stillChbx'>"+nizProizvodjac[i]+"<input type='checkbox' class='sviChbx'
name='proizvodjaci' value='"+nizProizvodjac[i]+"' id='"+nizProizvodjac[i]+"' /><span class='checkmark'></span></label>";

                }

        document.getElementById("proizvodjac").insertAdjacentHTML("beforeend",proizvodjac);


        var nizEkran=new Array('15.6" Full HD','15.6" Full HD G-Sync','15.6" 4K QHD G-Sync','17.3" Full HD','17.3" Full HD G-
Sync','17.3" 4K QHD G-Sync','21" WFHD G-Sync');

        var nizEkranOznake=new Array('15hd','15-gsync','15-4k','17hd','17-gsync','17-4k','21-gsync');

        var ekran="";

                for(var i=0; i<nizEkran.length; i++){

                        ekran+="<label class='stillChbx'>"+nizEkran[i]+"<input type='checkbox' class='sviChbx' name='ekran'
value='"+nizEkranOznake[i]+"' id='"+nizEkranOznake[i]+"' /><span class='checkmark'></span></label>";

                }

        document.getElementById("display").insertAdjacentHTML("beforeend",ekran);
```

```javascript
var nizProcesor=new Array('Intel® i7-7700HQ','Intel® i7-7820HK','Intel® i7-8750H','Intel® i7-8850H','Intel® i7-8700K','Intel® i9-8950HK');

var nizProcesorOznake=new Array('7700HQ','7820HK','8750H','8850H','8700K','8950HK');

var procesor="";

        for(var i=0; i<nizProcesor.length; i++){

                procesor+="<label class='stillChbx'>"+nizProcesor[i]+"<input type='checkbox' class='sviChbx' name='procesor' value='"+nizProcesorOznake[i]+"' id='"+nizProcesorOznake[i]+"'   /><span class='checkmark'></span></label>";

        }

document.getElementById("cpu").insertAdjacentHTML("beforeend",procesor);


var nizRam=new Array('Up to 32GB 2133Mhz','Up to 32GB 2400Mhz','Up to 64GB 2133Mhz','Up to 64GB 2400Mhz');

var nizRamOznake=new Array('32GB2133','32GB2400','64GB2133','64GB2400');

var ram="";

        for(var i=0; i<nizRam.length; i++){

                ram+="<label class='stillChbx'>"+nizRam[i]+"<input type='checkbox' class='sviChbx' name='ram' value='"+nizRamOznake[i]+"' id='"+nizRamOznake[i]+"' /><span class='checkmark'></span></label>";

        }

document.getElementById("ram").insertAdjacentHTML("beforeend",ram);


var nizGrafika=new Array('GeForce™ GTX 1050Ti','GeForce™ GTX 1060','GeForce™ GTX 1070','GeForce™ GTX 1080','Dual GeForce™ GTX 1080');

var nizGrafikaOznake=new Array('1050','1060','1070','1080','dual1080');

var grafika="";

        for(var i=0; i<nizGrafika.length; i++){

                grafika+="<label class='stillChbx'>"+nizGrafika[i]+"<input type='checkbox' class='sviChbx' name='gpu' value='"+nizGrafikaOznake[i]+"' id='"+nizGrafikaOznake[i]+"' /><span class='checkmark'></span></label>";

        }

document.getElementById("gpu").insertAdjacentHTML("beforeend",grafika);


var nizStorage=new Array('1TB HDD','128GB SSD + 1TB HDD','250GB SSD + 1TB HDD','500GB SSD + 1TB HDD');

var nizStorageOznake=new Array('1TB','128GB','250GB','500GB');

var storage="";

        for(var i=0; i<nizStorage.length; i++){

                storage+="<label class='stillChbx'>"+nizStorage[i]+"<input type='checkbox' class='sviChbx' name='storage' value='"+nizStorageOznake[i]+"' id='"+nizStorageOznake[i]+"'   /><span class='checkmark'></span></label>";

        }

document.getElementById("storage").insertAdjacentHTML("beforeend",storage);


var filterCheckboxes = $('input[type="checkbox"]');
```

```javascript
        filterCheckboxes.on('change', function(){
                var selectedFilters = {};
                filterCheckboxes.filter(':checked').each(function()
                        {
                                if (!selectedFilters.hasOwnProperty(this.name))
                                        {
                                                selectedFilters[this.name] = [];
                                        }
                                selectedFilters[this.name].push(this.value);
                        });


                var filteredResults = $('.proizvod');
                $.each(selectedFilters, function(name, filterValues) {
                        filteredResults = filteredResults.filter(function() {
                                var matched = false,
                                currentFilterValues = $(this).data('category').split(' ');
                                $.each(currentFilterValues, function(_, currentFilterValue) {
                                        if ($.inArray(currentFilterValue, filterValues) != -1)
                                                {
                                                        matched = true;
                                                        return false;
                                                }
                                });
                                return matched;
                        });
                });
        $('.proizvod').hide().filter(filteredResults).show();
});

function ucitaj(){
        $.ajax({
        url:'json/laptop.json',
        type:'GET',
        data: 'json',
        success:function(podaci){
                var x="";
                $.each(podaci, function(naziv,podatak){
```

```
                    x+='<div class="proizvod" data-category="'+podatak.filteroznaka+'"><a data-fancybox="gallery"
href="specifikacije.html" title="'+podatak.oznaka+'"><img class="proizvod-slika" src="'+podatak.slika.putanja+'"
alt="'+podatak.slika.alt+'" width="210" height="210"></a><div class="proizvod-opis"><div class="proizvod-opis"><strong><a
href="specifikacije.html" title="'+podatak.naziv+'"><h2 class="proizvod-naslov">'+podatak.naziv+'</h2></a></strong></div><div
class="proizvod-specifikacije"><ul><li class="razmak dodatak">'+podatak.ekran+'</li><li   class="razmak">'+podatak.cpu+'</li><li
class="razmak">'+podatak.gpu+'</li><li class="razmak">'+podatak.ram+'</li><li class="razmak">'+podatak.storage+'</li><li
class="razmak dodatak2">'+podatak.baterija+'+ Hours / '+podatak.tezina+' kg</li></ul></div></div><div class="more-info"><a
href="specifikacije.html"><span class="info">VIEW DETAILS</span></a></div></div>';

                    document.getElementById("laptop").innerHTML=x;

                });

        }

    });

}


$(document).ready(function(){


    $("#15").on("click",function(){

            ekran15();

    })


    $("#17").on("click",function(){

            ekran17();

    })


    $("#acer").on("click",function (){

            acer();

    })


    $("#asus").on("click",function (){

            asus();

    })


    $("#gigabyte").on("click",function (){

            gigabyte();

    })


    $("#msi").on("click",function (){

            msi();

    })
```

```javascript
$("#sager").on("click",function (){
        sager();
})


$('#menu li ul').css({
        display: "none",
        left: "auto"
        });
$('#menu li').hover(function()
        {
                $(this).find('ul').stop(true, true).slideDown('fast');
                $(this).find('ul').css({"transition":"0.2"});
        },
        function()
        {
                $(this).find('ul').stop(true,true).fadeOut('fast');
        });


$(document).on( 'click', '.proizvod', function(){
        var nazivLaptop=$(this).find("a").attr("title");
        localStorage.setItem("oznaka",nazivLaptop);
});


if(localStorage.getItem("saPocetne")!=null){
var saPocetne=localStorage.getItem("saPocetne");
if(saPocetne.length>0)
{
        switch(saPocetne)
                {
                        case "15": ekran15(); break;
                        case "17": ekran17(); break;
                        case "acer": acer(); break;
                        case "asus": asus(); break;
                        case "gigabyte": gigabyte(); break;
                        case "msi": msi(); break;
                        case "sager": sager(); break;
                        default: localStorage.removeItem("saPocetne");
                }
```

```javascript
                    localStorage.removeItem("saPocetne");

            }

            }


$("#scrollToTop").click(function() {

    $("html, body").animate({ scrollTop: 0 }, "slow");

    return false;

});


            window.onscroll=function(){

                    skrolovanje();

            };

            function skrolovanje(){

                    if(document.documentElement.scrollTop > 500)

                    {

                            $("#scrollToTop").fadeIn();

                    }

                    else

                    {

                            $("#scrollToTop").fadeOut();

                    }

            }


            $("#scrollToTop").click(function(){

                    document.documentElement.scrollTop=0;

            });


});


function acer(){

            $("input:checkbox").each(function(index,element){

                    $(element).prop('checked', false);

                    $("#Acer").prop('checked', true);

                    });


            saMenija();

}
```

```javascript
function asus(){

        $("input:checkbox").each(function(index,element){

                $(element).prop('checked', false);

                $("#Asus").prop('checked', true);

                });


        saMenija();

}


function gigabyte(){

        $("input:checkbox").each(function(index,element){

                $(element).prop('checked', false);

                $("#GIGABYTE").prop('checked', true);

                });


        saMenija();

}


function msi(){

        $("input:checkbox").each(function(index,element){

                $(element).prop('checked', false);

                $("#MSI").prop('checked', true);

                });


        saMenija();

}


function sager(){

        $("input:checkbox").each(function(index,element){

                $(element).prop('checked', false);

                $("#Sager").prop('checked', true);

                });


        saMenija();

}


function ekran15(){

        samo15();
```

```
        saMenija();

}


function ekran17(){

        samo17()

        saMenija();


}


function samo17(){

$("input:checkbox").each(function(index,element){

        $(element).prop('checked', false);

        $("#17hd, #17-gsync, #17-4k").prop('checked', true);

        });

}


function samo15(){

$("input:checkbox").each(function(index,element){

        $(element).prop('checked', false);

        $("#15hd, #15-gsync, #15-4k").prop('checked', true);

        });

}


function saMenija(){

                var selectedFilters = {};

                filterCheckboxes.filter(':checked').each(function()

                        {

                                if (!selectedFilters.hasOwnProperty(this.name))

                                        {

                                                selectedFilters[this.name] = [];

                                        }

                        selectedFilters[this.name].push(this.value);

                        });

                var filteredResults = $('.proizvod');

                $.each(selectedFilters, function(name, filterValues) {

                        filteredResults = filteredResults.filter(function() {

                                var matched = false,

                                currentFilterValues = $(this).data('category').split(' ');
```

```javascript
                                $.each(currentFilterValues, function(_, currentFilterValue) {
                                        if ($.inArray(currentFilterValue, filterValues) != -1)
                                                {
                                                        matched = true;
                                                        return false;
                                                }
                                });
                                return matched;
                        });
                });


        $('.proizvod').hide().filter(filteredResults).show();
}


        $(".reset").on("click",function(){
                $("input:checkbox").each(function(index,element){
                $(element).prop('checked', false);


                });
                saMenija();
        })
```

3.3.5. spec.js

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


$("#scrollToTop").click(function() {
    $("html, body").animate({ scrollTop: 0 }, "slow");
    return false;
});


        window.onscroll=function(){
                skrolovanje();
        };
        function skrolovanje(){
                if(document.documentElement.scrollTop > 500)
```

```javascript
                        {
                                $("#scrollToTop").fadeIn();
                        }
                        else
                        {
                                $("#scrollToTop").fadeOut();
                        }
        }


$("#scrollToTop").click(function(){
        document.documentElement.scrollTop=0;
});


$('#menu li ul').css({
        display: "none",
        left: "auto"
        });
$('#menu li').hover(function()
        {
                $(this).find('ul').stop(true, true).slideDown('fast');
                $(this).find('ul').css({"transition":"0.2"});
        },
        function()
        {
                $(this).find('ul').stop(true,true).fadeOut('fast');
        });


$(".kaProizvodima").on( 'click', function(){
        var asd=$(this).attr("title");
        localStorage.setItem("saPocetne",asd);
});


var x=localStorage.getItem("oznaka");
        $.ajax({
                url:'json/specifikacije.json',
                type:'GET',
                data: 'json',
                success:function(podaci){
```

```javascript
                var Naslov="";
                $.each(podaci, function(naziv,podatak){
                        if(x===podatak.Oznaka){
                                Naslov=podatak.Naziv;
                                document.getElementById("naslov").innerHTML=Naslov;
                        }
                });
        },
        error:function(xhr,status,error){
        }
});


$.ajax({
        url:'json/specifikacije.json',
        type:'GET',
        data: 'json',
        success:function(podaci){
                var Slike="";
                $.each(podaci, function(naziv,podatak){
                        if(x===podatak.Oznaka){
                                for (var i=1; i<8; i++){
                                        Slike+='<a data-fancybox="gallery"
href="slike/galerija/'+podatak.Oznaka+'/'+i+'.png"><img class="dimenzije" src="slike/galerija/'+podatak.Oznaka+'/'+i+'.png"
alt="'+podatak.Naziv+'-'+i+'"></a>';
                                        document.getElementById("galerija").innerHTML=Slike;
                                }
                        }
                });
        },
        error:function(xhr,status,error){
        }
});


$.ajax({
url:'json/specifikacije.json',
type:'GET',
data: 'json',
success:function(podaci){
```

```
var y="";

$.each(podaci, function(naziv,podatak){

    if(x===podatak.Oznaka){


        y+='<table cellspacing=0 border=1><tr><td class="naslov">Display</td><td
class=""></td></tr><tr><td class="podnaslovSpec">Display:</td><td class="sadrzaj1">'+podatak.Display+'</td></tr><tr><td
class=""></td><td class=""></td></tr><tr><td class="naslov">Processor</td><td class=""></td></tr><tr><td
class="podnaslovSpec">Processor:</td><td class="sadrzaj1">'+podatak.Processor+'</td></tr><tr><td
class="podnaslovSpec">Chipset:</td><td class="sadrzaj1">'+podatak.Chipset+'</td></tr><tr><td class=""></td><td
class=""></td></tr><tr><td class="naslov">Hard Drive & Optical Drive</td><td class=""></td></tr><tr><td
class="podnaslovSpec">Standard Hard Drive:</td><td class="sadrzaj1">'+podatak.StandardHardDrive+'</td></tr><tr><td
class="podnaslovSpec">Standard Optical Drive:</td><td class="sadrzaj1">N/A</td></tr><tr><td class=""></td><td
class=""></td></tr><tr><td class=""></td><td class=""></td></tr><tr><td class="naslov">Graphics</td><td class=""></td></tr><tr><td
class="podnaslovSpec">Graphics Controller:</td><td class="sadrzaj1">'+podatak.GraphicsController+'</td></tr>';


        var z=podatak.GraphicsControllerSvojstva;

        $.each(z, function(index,podatak){

            y+='<tr><td class=""></td><td class="sadrzaj2">'+podatak.svojstvo+'</td></tr>';

        });


        y+='<tr><td class=""></td><td class=""></td></tr><tr><td class="naslov">Memory</td><td
class=""></td></tr><tr><td class="podnaslovSpec">Standard Memory:</td><td
class="sadrzaj1">'+podatak.StandardMemory+'</td></tr><tr><td class=""></td><td
class="sadrzaj2">'+podatak.StandardMemorySvojstvo+'</td></tr><tr><td class="podnaslovSpec">Number of SODIMMS:</td><td
class="sadrzaj1">'+podatak.NumberOfSODIMMS+'</td></tr><tr><td class=""></td><td class="sadrzaj2">(Real operation frequency
depends on processor)</td></tr><tr><td class=""></td><td class=""></td></tr><tr><td class="naslov">Audio Features</td><td
class=""></td></tr><tr><td class="podnaslovSpec">Audio Features:</td><td class="sadrzaj2">'+podatak.AudioFeatures+'</td></tr>';


        var z1=podatak.AudioFeaturesSvojstva;

        $.each(z1, function(index,podatak){

            y+='<tr><td class=""></td><td
class="sadrzaj2">'+podatak.AudioFeaturesSvojstva+'</td></tr>';

        });


        y+='<tr><td class=""></td><td class=""></td></tr><tr><td class="naslov">Network</td><td
class=""></td></tr><tr><td class="podnaslovSpec">Network / Communication:</td><td
class="sadrzaj1">'+podatak.NetworkCommunication1+'</td></tr><tr><td class=""></td><td
class="sadrzaj2">'+podatak.NetworkCommunication2+'</td></tr><tr><td class=""></td><td class=""></td></tr><tr><td
class="naslov">Slots / Interface</td><td class=""></td></tr><tr><td class="podnaslovSpec">Slots: </td><td
class="sadrzaj1">'+podatak.Slots+'</td></tr>';


        var z2=podatak.SlotsSvojstva;

        $.each(z2, function(index,podatak){

            y+='<tr><td class=""></td><td
class="sadrzaj2">'+podatak.SlotsSvojstva+'</td></tr>';

        });
```

```javascript
                                        y+='<tr><td class=""></td><td class=""></td></tr><tr><td class="naslov">Input / Output
Ports</td><td></td></tr><tr><td class="podnaslovSpec">Ports:</td>';


                                        var z3=podatak.InputOutputPorts;

                                        $.each(z3, function(index,podatak){

                                                y+='<td
class="sadrzaj1">'+podatak.InputOutputPortsSvojstva+'</td></tr></tr><td class=""></td>';

                                        });



                                        y+='<tr><td class=""></td><td class=""></td></tr><tr><td class="naslov">Power
System</td><td class=""></td></tr><tr><td class="podnaslovSpec">Battery:</td><td
class="sadrzaj1">'+podatak.Battery+'</td></tr><tr><td class=""></td><td class=""></td></tr><tr><td class="naslov">Cooling</td><td
class=""></td></tr><tr><td class="podnaslovSpec">Standard Cooling:</td><td class="podnaslovSpec">Copper CPU
Heatsink</td></tr><tr><td class="sadrzaj2">Optional Cooling:</td><td class="sadrzaj2">IC Diamond Thermal
Compound</td></tr><tr><td class=""></td><td class=""></td></tr><tr><td class="naslov">Size & Weight</td><td
class=""></td></tr><tr><td class="podnaslovSpec">Size:</td><td class="sadrzaj2">'+podatak.Size+'</td></tr><tr><td
class="podnaslovSpec">Weight:</td><td class="sadrzaj2">'+podatak.Weight+'</td></tr><tr><td class=""></td><td
class=""></td></tr><tr><td class="naslov">Keyboard / Point Device</td><td class=""></td></tr><tr><td
class="podnaslovSpec">Keyboard:</td><td class="sadrzaj1">'+podatak.Keyboard+'</td></tr><tr><td class="podnaslovSpec">Point
Device:</td><td class="sadrzaj1">Integrated touchpad with Microsoft PTP multi-gesture and scrolling function</td></tr><tr><td
class=""></td><td class=""></td></tr><tr><td class="naslov">Additional Features</td><td class=""></td></tr><tr><td
class="podnaslovSpec">Extra Features:</td><td class="sadrzaj2">'+podatak.ExtraFeatures+'</td></tr>';


                                        var z4=podatak.ExtraFeaturesSvojstva;

                                        $.each(z4, function(index,podatak){

                                                y+='<tr><td class=""></td><td
class="sadrzaj2">'+podatak.ExtraFeaturesSvojstva+'</td></tr>';

                                        });



                                        y+='<tr><td class=""></td><td class=""></td></tr><tr><td class="naslov">Operating
System</td><td class=""></td></tr><tr><td class="podnaslovSpec">Standard OS:</td><td class="sadrzaj1">No Operating System
Standard (Windows® 10 Available)</td></tr><tr><td class=""></td><td class="sadrzaj2">(if OS is purchased some custom drivers may
be downloaded and not supplied with the system)</td></tr></table>';


                                        document.getElementById("specifikacije").innerHTML=y;

                                }

                        });

                },

                error:function(xhr,status,error){

                }

        });

});
```

3.3.6. contact.js

```javascript
var sakrijGreske=document.getElementsByClassName("error");

for(var i=0; i<sakrijGreske.length; i++)

{

        sakrijGreske[i].style.display="none";

}


function provera(){


        var name=document.getElementById("tbName").value;

        var email=document.getElementById("tbEmail").value;

        var phone=document.getElementById("tbPhone").value;

        var subject=document.getElementById("tbSubject").value;

        var message=document.getElementById("tbMessage").value;

        var allInputs=document.getElementsByClassName("allInputs");

        var nizPodaci=new Array();

        var nizGreske=new Array();


        var reName = /^[A-ZČĆŽŠĐ][a-zčćžšđ]{2,9}(\s[A-ZČĆŽŠĐ][a-zčćžšđ]{2,9})*$/;

        var reEmail = /^(([^<>()\[\]\\.,;:\s@"]+(\.[^<>()\[\]\\.,;:\s@"]+)*)|(".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}])|(([a-zA-Z\-0-9]+\.)+[a-zA-Z]{2,}))$/;

        var rePhone = /^(06[01234569]\/[0-9]{6}[0-9]?)$|(06[01234569]\/[0-9]{3}\-[0-9]{3}[0-9]?)$/;

        var reSubject =/^.{3,30}$/;

        var reMessage =/^.{3,300}$/;


        if(!reName.test(name))

        {

                document.getElementById("labelName").style.color="red";

                document.getElementById("errorName").style.display="block";

                nizGreske.push("Please enter Your name");

                //console.log(nizGreske);

        }

        else

        {

                document.getElementById("labelName").style.color="#fff";

                document.getElementById("errorName").style.display="none";

                nizPodaci.push("Name: "+name);

        }
```

```javascript
if(!reEmail.test(email))
{
        document.getElementById("labelEmail").style.color="red";
        document.getElementById("errorEmail").style.display="block";
        nizGreske.push("Please enter Your email");
}
else
{
        document.getElementById("labelEmail").style.color="#fff";
        document.getElementById("errorEmail").style.display="none";
        nizPodaci.push("Email: "+email);
}


if(!rePhone.test(phone))
{
        document.getElementById("labelPhone").style.color="red";
        document.getElementById("errorPhone").style.display="block";
        nizGreske.push("Please enter Your phone");
}
else
{
        document.getElementById("labelPhone").style.color="#fff";
        document.getElementById("errorPhone").style.display="none";
        nizPodaci.push("Phone: "+phone);
}


if(!reSubject.test(subject))
{
        document.getElementById("labelSubject").style.color="red";
        document.getElementById("errorSubject").style.display="block";
        nizGreske.push("Please enter Subject");
}
else
{
        document.getElementById("labelSubject").style.color="#fff";
        document.getElementById("errorSubject").style.display="none";
        nizPodaci.push("Subject: "+subject);
```

```
                }

                if(!reMessage.test(message))
                {
                        document.getElementById("labelMessage").style.color="red";
                        document.getElementById("errorMessage").style.display="block";
                        nizGreske.push("Please enter Your message");
                }
                else
                {
                        document.getElementById("labelMessage").style.color="#fff";
                        document.getElementById("errorMessage").style.display="none";
                        nizPodaci.push("Message: "+message);
                }

                if(nizGreske.length ==0)
                {
                        alert("Your message has been sent!")
                        for(var i=0; i<allInputs.length; i++)
                        {
                                allInputs[i].value="";
                        }
                }
                else
                {
                        alert("All fields must be filled in correct format!")
                }

        }


$(document).ready(function(){
        $(".kaProizvodima").on( 'click', function(){
                var asd=$(this).attr("title");
                localStorage.setItem("saPocetne",asd);
        });

        $('#menu li ul').css({
```

```
            display: "none",

            left: "auto"

            });

        $('#menu li').hover(function()

            {

                    $(this).find('ul').stop(true, true).slideDown('fast');

                    $(this).find('ul').css({"transition":"0.2"});

            },

            function()

            {

                    $(this).find('ul').stop(true,true).fadeOut('fast');

            });

});
```

3.4. JSON

3.4.1. laptop.json

```
[
        {
                "id":"1",

                "proizvodjac":"Acer",

                "filteroznaka":"Acer 15hd 7700HQ 32GB2133 1060 1TB",

                "slika": {

                        "putanja": "slike/helios300.png",

                        "alt": "Acer Predator Helios 300"

                },

                "naziv": "Acer Predator Helios 300",

                "oznaka": "AcerPredatorHelios300",

                "ekran": "15.6" Full HD",

                "ekranfilter":"15hd",

                "cpu": "Intel® i7-7700HQ",

                "gpu": "GeForce™ GTX 1060",

                "ram": "Up to 32GB 2133Mhz",

                "storage": "1TB HDD",

                "baterija": 3,

                "tezina": 2.7
        },
        {
```

"proizvodjac":"Acer",

"filteroznaka":"Acer 15hd 7700HQ 64GB2133 1070 250GB",

"slika": {

"putanja": "slike/predator15.png",

"alt": "Acer Predator 15"

},

"naziv": "Acer Predator 15",

"oznaka": "AcerPredator15",

"ekran": "15.6" Full HD",

"ekranfilter":"15hd",

"cpu": "Intel® i7-7700HQ",

"gpu": "GeForce™ GTX 1070",

"ram": "Up to 64GB 2133Mhz",

"storage": "250GB + 1TB HDD",

"baterija": 3,

"tezina": 3.7

},

{   "proizvodjac":"Acer",

"filteroznaka":"Acer 17hd 7700HQ 64GB2133 1070 250GB",

"slika": {

"putanja": "slike/predator17.png",

"alt": "Acer Predator 17"

},

"naziv": "Acer Predator 17",

"oznaka": "AcerPredator17",

"ekran": "17.3" Full HD",

"ekranfilter":"17hd",

"cpu": "Intel® i7-7700HQ",

"gpu": "GeForce™ GTX 1070",

"ram": "Up to 64GB 2133Mhz",

"storage": "250GB + 1TB HDD",

"baterija": 3,

"tezina": 4.2

},

{

"proizvodjac":"Acer",

"filteroznaka":"Acer 17-4k 7820HK 64GB2133 1080 250GB",

"slika": {

                "putanja": "slike/predator17x.png",

                "alt": "Acer Predator 17X"

        },

        "naziv": "Acer Predator 17X",

        "oznaka": "AcerPredator17X",

        "ekran": "17.3" 4K QHD G-Sync",

        "ekranfilter":"17-4k",

        "cpu": "Intel® i7-7820HK",

        "gpu": "GeForce™ GTX 1080",

        "ram": "Up to 64GB 2133Mhz",

        "storage": "250GB + 1TB HDD",

        "baterija": 3,

        "tezina": 4.5

},

{

        "proizvodjac":"Acer",

        "filteroznaka":"Acer 21-gsync 7820HK 64GB2400 dual1080 500GB",

        "slika": {

                "putanja": "slike/predator21x.png",

                "alt": "Acer Predator 21X"

        },

        "naziv": "Acer Predator 21X",

        "oznaka": "AcerPredator21X",

        "ekran": "21" WFHD G-Sync",

        "ekranfilter":"21-gsync",

        "cpu": "Intel® i7-7820HK",

        "gpu": "Dual GeForce™ GTX 1080",

        "ram": "Up to 64GB 2400Mhz",

        "storage": "500GB SSD + 1TB HDD",

        "baterija": 3,

        "tezina": 8.5

},

{

        "proizvodjac":"Asus",

        "filteroznaka":"Asus 15hd 8750H 32GB2133 1050 128GB",

        "slika": {

                "putanja": "slike/gl503.png",

                "alt": "Asus Strix Hero GL503GE"

		},
		"naziv": "Asus Strix Hero GL503GE",

		"oznaka": "AsusStrixHeroGL503GE",

		"ekran": "15.6" Full HD",

		"ekranfilter":"15hd",

		"cpu": "Intel® i7-8750H",

		"gpu": "GeForce™ GTX 1050Ti",

		"ram": "Up to 32GB 2133Mhz",

		"storage": "128Gb SSD + 1TB HDD",

		"baterija": 3,

		"tezina": 2.6

},

{

		"proizvodjac":"Asus",

		"filteroznaka":"Asus 15-gsync 8750H 32GB2400 1070 250GB",

		"slika": {

				"putanja": "slike/gx501.png",

				"alt": "Asus Zephyrus M GM501GS"

		},

		"naziv": "Asus Zephyrus M GM501GS",

		"oznaka": "AsusZephyrusMGM501GS",

		"ekran": "15.6" Full HD",

		"ekranfilter":"15g-sync",

		"cpu": "Intel® i7-8750H",

		"gpu": "GeForce™ GTX 1070",

		"ram": "Up to 32GB 2400Mhz",

		"storage": "250GB SSD + 1TB HDD",

		"baterija": 3,

		"tezina": 2.8

},

{

		"proizvodjac":"Asus",

		"filteroznaka":"Asus 17hd 8750H 32GB2400 1050 128GB",

		"slika": {

				"putanja": "slike/gl703ge.png",

				"alt": "Asus Strix Scar GL703GE"

		},

		"naziv": "Asus Strix Scar GL703GE",

                "oznaka": "AsusStrixScarGL703GE",

                "ekran": "17.3" Full HD",

                "ekranfilter":"17hd",

                "cpu": "Intel® i7-8750H",

                "gpu": "GeForce™ GTX 1050Ti",

                "ram": "Up to 32GB 2400Mhz",

                "storage": "128GB SSD + 1TB HDD",

                "baterija": 3,

                "tezina": 3

        },

        {

                "proizvodjac":"Asus",

                "filteroznaka":"Asus 17hd 8750H 32GB2400 1060 250GB",

                "slika": {

                        "putanja": "slike/gl703ge.png",

                        "alt": "Asus Strix Scar GL703GM"

                },

                "naziv": "Asus Strix Scar GL703GM",

                "oznaka": "AsusStrixScarGL703GM",

                "ekran": "17.3" Full HD",

                "ekranfilter":"17hd",

                "cpu": "Intel® i7-8750H",

                "gpu": "GeForce™ GTX 1060",

                "ram": "Up to 32GB 2400Mhz",

                "storage": "250 SSD + 1TB HDD",

                "baterija": 3,

                "tezina": 2.9

        },

        {

                "proizvodjac":"Asus",

                "filteroznaka":"Asus 17-gsync 8950HK 64GB2400 1080 250GB",

                "slika": {

                        "putanja": "slike/g703.png",

                        "alt": "Asus G703GI"

                },

                "naziv": "Asus G703GI",

                "oznaka": "AsusG703GI",

                "ekran": "17.3" Full HD G-Sync",

"ekranfilter":"17-gsync",

"cpu": "Intel® i9-8950HK",

"gpu": "GeForce™ GTX 1080",

"ram": "Up to 64GB 2400Mhz",

"storage": "250 SSD + 1TB HDD",

"baterija": 3,

"tezina": 4.8
},

{
"proizvodjac":"GIGABYTE",

"filteroznaka":"GIGABYTE 15hd 8750H 32GB2400 1060 500GB",

"slika": {

"putanja": "slike/15x.png",

"alt": "GIGABYTE AERO 15W V8-BK4"
},

"naziv": "GIGABYTE AERO 15W V8-BK4",

"oznaka": "GIGABYTEAERO15WV8-BK4",

"ekran": "15.6" Full HD",

"ekranfilter":"15hd",

"cpu": "Intel® Core™ i7-8750H",

"gpu": "GeForce™ GTX 1060",

"ram": "Up to 32GB 2400Mhz",

"storage": "500GB SSD + 1TB HDD",

"baterija": 9,

"tezina": 2.4
},
{
"proizvodjac":"GIGABYTE",

"filteroznaka":"GIGABYTE 15hd 8750H 32GB2400 1070 500GB",

"slika": {

"putanja": "slike/15x.png",

"alt": "GIGABYTE AERO 15X V8-BK4"
},

"naziv": "GIGABYTE AERO 15X V8-BK4",

"oznaka": "GIGABYTEAERO15XV8-BK4",

"ekran": "15.6" Full HD",

"ekranfilter":"15hd",

```
          "cpu": "Intel® Core™ i7-8750H",

          "gpu": "GeForce™ GTX 1070 MAX-Q",

          "ram": "Up to 32GB 2400Mhz",

          "storage": "500GB SSD + 1TB HDD",

          "baterija":9,

          "tezina": 2.4

},

{

          "proizvodjac":"GIGABYTE",

          "filteroznaka":"GIGABYTE 15-4k 8750H 32GB2400 1070 500GB",

          "slika": {

                    "putanja": "slike/15x.png",

                    "alt": "GIGABYTE AERO 15X V8-BK4P"

          },

          "naziv": "GIGABYTE AERO 15X V8-BK4P",

          "oznaka": "GIGABYTEAERO15XV8-BK4P",

          "ekran": "15.6” 4K QHD G-Sync",

          "ekranfilter":"15-4k",

          "cpu": "Intel® Core™ i7-8750H",

          "gpu": "GeForce™ GTX 1070 MAX-Q",

          "ram": "Up to 32GB 2400Mhz",

          "storage": "500GB SSD + 1TB HDD",

          "baterija":9,

          "tezina": 2.4

},

{

          "proizvodjac":"MSI",

          "filteroznaka":"MSI 15hd 8750H 32GB2400 1050 128GB",

          "slika": {

                    "putanja": "slike/gp63.png",

                    "alt": "MSI GP63 LEOPARD-041"

          },

          "naziv": "MSI GP63 LEOPARD-041",

          "oznaka": "MSIGP63LEOPARD-041",

          "ekran": "15.6” Full HD",

          "ekranfilter":"15hd",

          "cpu": "Intel® i7-8750H",

          "gpu": "GeForce™ GTX 1050Ti",
```

                "ram": "Up to 32GB 2400Mhz",

                "storage": "128GB SSD + 1TB HDD",

                "baterija": 2,

                "tezina": 2.2

        },

        {

                "proizvodjac":"MSI",

                "filteroznaka":"MSI 15hd 7700HQ 32GB2133 1060 1TB",

                "slika": {

                        "putanja": "slike/ge63.png",

                        "alt": "MSI GE63VR RAIDER-632"

                },

                "naziv": "MSI GE63VR RAIDER-632",

                "oznaka": "MSIGE63VRRAIDER-632",

                "ekran": "15.6" Full HD",

                "ekranfilter":"15hd",

                "cpu": "Intel® i7-7700HQ",

                "gpu": "GeForce™ GTX 1060",

                "ram": "Up to 32GB 2133Mhz",

                "storage": "1TB HDD",

                "baterija": 2,

                "tezina": 2.3

        },

        {

                "proizvodjac":"MSI",

                "filteroznaka":"MSI 15hd 7700HQ 32GB2133 1060 128GB",

                "slika": {

                        "putanja": "slike/gs65.png",

                        "alt": "MSI GS65 Stealth THIN-500"

                },

                "naziv": "MSI GS65 Stealth THIN-500",

                "oznaka": "MSIGS65StealthTHIN-500",

                "ekran": "15.6" Full HD",

                "ekranfilter":"15hd",

                "cpu": "Intel® i7-7700HQ",

                "gpu": "GeForce™ GTX 1060",

                "ram": "Up to 32GB 2133Mhz",

                "storage": "128GB SSD + 1TB HDD",

```
            "baterija": 2,

            "tezina": 1.9

    },

    {

            "proizvodjac":"MSI",

            "filteroznaka":"MSI 15-gsync 8750H 64GB2400 1080 250GB",

            "slika": {

                    "putanja": "slike/gt63.png",

                    "alt": "MSI GT63 TITAN-046"

            },

            "naziv": "MSI GT63 TITAN-046",

            "oznaka": "MSIGT63TITAN-046",

            "ekran": "15.6" Full HD G-Sync",

            "ekranfilter":"15-gsync",

            "cpu": "Intel® i7-8750H",

            "gpu": "GeForce™ GTX 1080",

            "ram": "Up to 64GB 2400Mhz",

            "storage": "250GB SSD + 1TB HDD",

            "baterija": 3,

            "tezina": 3.1

    },

    {

            "proizvodjac":"MSI",

            "filteroznaka":"MSI 17hd 8750H 32GB2133 1050 128GB",

            "slika": {

                    "putanja": "slike/gl73.png",

                    "alt": "MSI GL73 8RD-031"

            },

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            "ram": "Up to 64GB 2400Mhz",

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3.4.2. laptop.json

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        "Chipset":"Intel® HM175 Chipset",

        "StandardHardDrive":"1TB (7200RPM) HDD(Upgradeable)",

        "GraphicsController":"NVIDIA GeForce® GTX 1060 6G GDDR5 ",

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            "Keyboard":"Backlight keyboard",

            "ExtraFeatures":"Finger Print Reader",

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            "Chipset":"Intel® HM175 Chipset",

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"Size":"15.4"(W) x 11.8"(D) x 1.5"(H)",

"Weight":"5.05 lbs with 6-cell Battery",

"Keyboard":"Backlight keyboard",

"ExtraFeatures":"Finger Print Reader",

"ExtraFeaturesSvojstva":

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"Processor":"Intel® Core™ i7-7700HQ 2.8 - 3.8 Ghz w/ Turbo Boost",

"Chipset":"Intel® HM175 Chipset",

"StandardHardDrive":"250GB SSD + 1TB (7200RPM) HDD(Upgradeable)",

"GraphicsController":"NVIDIA GeForce® GTX 1070 6G GDDR5 ",

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"Size":"16.7"(W) x 12.7"(D) x 1.6"(H)",

"Weight":"9.26 lb lbs with 6-cell Battery",

"Keyboard":"Backlight keyboard",

"ExtraFeatures":"Finger Print Reader",

"ExtraFeaturesSvojstva":

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"Display":"21" FHD (2560 x 1080), ComfyView In-plane Switching (IPS) Technology Active Matrix TFT Color LCD",

"Processor":"7th Generation Intel® Mobile Core i7-7820HK Kaby Lake Processor",

"Chipset":"Mobile Intel CM238 Express",

"StandardHardDrive":"500GB SSD + 1TB (7200RPM) HDD",

"GraphicsController":"2 x NVIDIA GeForce GTX 1080 in SLI mode - 16 GB GDDR5 SDRAM",

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"NetworkCommunication2":"Killer Ethernet E2500, 802.11 B/G/N/AC, Bluetooth 4.1",

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         "Size":"22.4"(W) x 12.4"(D) x 3.3"(H)",

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LCD, G-SYNC™",

         "Processor":"7th Generation Intel® Mobile Core i7-7820HK Kaby Lake Processor",

         "Chipset":"Mobile Intel CM238 Express",

         "StandardHardDrive":"250GB SSD + 1TB (7200RPM) HDD",

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        "StandardMemorySvojstvo":"Expandable up to 64GB",

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        "Keyboard":"Backlight keyboard RGB",

        "ExtraFeatures":"Finger Print Reader",

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    "Processor":"Intel® Core™ i7-8750H 2.2GHz (Turbo up to 3.9GHz)",
    "Chipset":"Intel® HM370 Chipset",
    "StandardHardDrive":"128GB NVMe/PCIE SSD + 1TB SSHD (8GB Cache) FireCuda(Upgradeable)",
    "GraphicsController":"NVIDIA® GTX 1050Ti 4GB GDDR5",
    "GraphicsControllerSvojstva":
        [
            {"svojstvo":"Support PCIe x16"},
            {"svojstvo":"Microsoft® DirectX® 12 compatible"},
            {"svojstvo":"Battery Boost 2.0 Ready"},
            {"svojstvo":"NVIDIA® PhysX® Technology"},
            {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},
            {"svojstvo":"Support 4 active displays"}
        ],
    "StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",
    "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",
    "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2666 MHz",
    "AudioFeatures":"2 x Speakers",
    "AudioFeaturesSvojstva":
        [
            {"AudioFeaturesSvojstva":"1 x woofer"}
        ],
    "NetworkCommunication1":"INTEL 9560 Gigabit WIFI 2x2 802.11ac Wave 2",
    "NetworkCommunication2":"10/100/1000 Mbps",
    "Slots":"3-in-1 Card Reader",
    "SlotsSvojstva":
        [
            {"SlotsSvojstva":"SD"}
        ],
    "InputOutputPorts":
        [
            {"InputOutputPortsSvojstva":"1 x Headphone-out & Audio-in Combo Jack"},
            {"InputOutputPortsSvojstva":"1 x RJ45 LAN Jack for LAN insert"},
            {"InputOutputPortsSvojstva":"1 x HDMI"},
```

          {"InputOutputPortsSvojstva":"1 x Thunderbolt"},

          {"InputOutputPortsSvojstva":"1 x USB Type-A 3.1 (Gen1)"},

          {"InputOutputPortsSvojstva":"4 x USB Type-C 3.1 (Gen2)"}

      ],

  "Battery":"4 cell (55WHrs) - Li-Polymer Battery Pack",

  "Size":"15.1"(W) x 10.3"(D) x 0.7"(H)",

  "Weight":"5.4 lbs with 4 Cell Battery",

  "Keyboard":"RGB (4-Zone) Keyboard",

  "ExtraFeatures":"Finger Print Reader",

  "ExtraFeaturesSvojstva":

      [

          {"ExtraFeaturesSvojstva":"Built-in FHD Video Camera"}

      ]

},

{

  "Naziv":"Asus Zephyrus M GM501GS",

  "Oznaka":"AsusZephyrusMGM501GS",

  "Display":"15.6" FHD (1920*1080), matte, 144Hz, 3ms(GtG), G-SYNC",

  "Processor":"Intel® Core™ i7-8750H 2.2GHz (Turbo up to 3.9GHz)",

  "Chipset":"Intel® HM370 Chipset",

  "StandardHardDrive":"256GB NVMe/PCIE SSD + 1TB SSHD (8GB Cache) FireCuda(Upgradeable)",

  "GraphicsController":"NVIDIA® GTX 1070 8GB GDDR5",

  "GraphicsControllerSvojstva":

      [

          {"svojstvo":"Support PCIe x16"},

          {"svojstvo":"Microsoft® DirectX® 12 compatible"},

          {"svojstvo":"Battery Boost 2.0 Ready"},

          {"svojstvo":"NVIDIA® PhysX® Technology"},

          {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

          {"svojstvo":"Support 4 active displays"}

      ],

  "StandardMemory":"16GB DDR4 2133MHz Supports Dual Channel DDR4",

  "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

  "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2666 MHz",

  "AudioFeatures":"2 x Speakers",

  "AudioFeaturesSvojstva":

[

       {"AudioFeaturesSvojstva":"1 x woofer"}

],

"NetworkCommunication1":"INTEL 9560 Gigabit WIFI 2x2 802.11ac Wave 2",

"NetworkCommunication2":"10/100/1000 Mbps",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

[

       {"SlotsSvojstva":"SD"}

],

"InputOutputPorts":

[

       {"InputOutputPortsSvojstva":"1 x Headphone-out & Audio-in Combo Jack"},

       {"InputOutputPortsSvojstva":"1 x RJ45 LAN Jack for LAN insert"},

       {"InputOutputPortsSvojstva":"1 x HDMI"},

       {"InputOutputPortsSvojstva":"1 x mini Display Port"},

       {"InputOutputPortsSvojstva":"3 x USB Type-A 3.1 (Gen1)"},

       {"InputOutputPortsSvojstva":"1 x USB Type-C 3.1 (Gen2)"},

       {"InputOutputPortsSvojstva":"1 x USB Type-A 2.0"}

],

"Battery":"4 cell (64WHrs) - Li-Polymer Battery Pack",

"Size":"15.1"(W) x 10.3"(D) x 0.9"(H)",

"Weight":"5.7 lbs with 4 Cell Battery",

"Keyboard":"RGB (4-Zone) Keyboard",

"ExtraFeatures":"Finger Print Reader",

"ExtraFeaturesSvojstva":

[

       {"ExtraFeaturesSvojstva":"Built-in FHD Video Camera"}

]

},

{

"Naziv":"Asus Strix Scar GL703GE",

"Oznaka":"AsusStrixScarGL703GE",

"Display":"17.3" FHD (1920*1080), matte, 120Hz (TN)",

"Processor":"Intel® Core™ i7-8750H 2.2GHz (Turbo up to 3.9GHz)",

"Chipset":"Intel® HM370 Chipset",

"StandardHardDrive":"128GB NVMe/PCIE SSD + 1TB SSHD (8GB Cache) FireCuda(Upgradeable)",

"GraphicsController":"NVIDIA® GTX 1050Ti 4GB GDDR5",

"GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x16"},

        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

        {"svojstvo":"Battery Boost 2.0 Ready"},

        {"svojstvo":"NVIDIA® PhysX® Technology"},

        {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

        {"svojstvo":"Support 4 active displays"}

    ],

"StandardMemory":"16GB DDR4 2133MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2666 MHz",

"AudioFeatures":"2 x Speakers",

"AudioFeaturesSvojstva":

    [

        {"AudioFeaturesSvojstva":"1 x woofer"}

    ],

"NetworkCommunication1":"INTEL 9560 Gigabit WIFI 2x2 802.11ac Wave 2",

"NetworkCommunication2":"10/100/1000 Mbps",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

    [

        {"SlotsSvojstva":"SD"}

    ],

"InputOutputPorts":

    [

        {"InputOutputPortsSvojstva":"1 x Headphone-out & Audio-in Combo Jack"},

        {"InputOutputPortsSvojstva":"1 x RJ45 LAN Jack for LAN insert"},

        {"InputOutputPortsSvojstva":"1 x HDMI"},

        {"InputOutputPortsSvojstva":"1 x mini Display Port"},

        {"InputOutputPortsSvojstva":"3 x USB Type-A 3.1"},

        {"InputOutputPortsSvojstva":"1 x USB Type-C 3.1"},

        {"InputOutputPortsSvojstva":"1 x USB Type-A 2.0"}

    ],

"Battery":"4 cell (64WHrs) - Li-Polymer Battery Pack",

"Size":"16.3"(W) x 11.0"(D) x 0.9"(H)",

"Weight":"6.7 lbs with 4 Cell Battery",

"Keyboard":"RGB (4-Zone) Keyboard",

"ExtraFeatures":"Finger Print Reader",

"ExtraFeaturesSvojstva":

    [

        {"ExtraFeaturesSvojstva":"Built-in FHD Video Camera"}

    ]

},

{

    "Naziv":"Asus Strix Scar GL703GM",

    "Oznaka":"AsusStrixScarGL703GM",

    "Display":"17.3" FHD (1920*1080), matte, 120Hz (TN)",

    "Processor":"Intel® Core™ i7-8750H 2.2GHz (Turbo up to 3.9GHz)",

    "Chipset":"Intel® HM370 Chipset",

    "StandardHardDrive":"256GB NVMe/PCIE SSD + 1TB SSHD (8GB Cache) FireCuda(Upgradeable)",

    "GraphicsController":"NVIDIA® GTX 1060 6GB GDDR5",

    "GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x16"},

        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

        {"svojstvo":"Battery Boost 2.0 Ready"},

        {"svojstvo":"NVIDIA® PhysX® Technology"},

        {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

        {"svojstvo":"Support 4 active displays"}

    ],

    "StandardMemory":"16GB DDR4 2133MHz Supports Dual Channel DDR4",

    "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

    "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2666 MHz",

    "AudioFeatures":"2 x Speakers",

    "AudioFeaturesSvojstva":

    [

        {"AudioFeaturesSvojstva":"1 x woofer"}

    ],

    "NetworkCommunication1":"INTEL 9560 Gigabit WIFI 2x2 802.11ac Wave 2",

    "NetworkCommunication2":"10/100/1000 Mbps",

    "Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

    [

        {"SlotsSvojstva":"SD"}

    ],

"InputOutputPorts":

    [

        {"InputOutputPortsSvojstva":"1 x Headphone-out & Audio-in Combo Jack"},

        {"InputOutputPortsSvojstva":"1 x RJ45 LAN Jack for LAN insert"},

        {"InputOutputPortsSvojstva":"1 x HDMI"},

        {"InputOutputPortsSvojstva":"1 x mini Display Port"},

        {"InputOutputPortsSvojstva":"4 x USB Type-A 3.1"},

        {"InputOutputPortsSvojstva":"1 x USB Type-C 3.1"}

    ],

"Battery":"4 cell (76WHrs) - Li-Polymer Battery Pack",

"Size":"16.2"(W) x 10.8"(D) x 0.9"(H)",

"Weight":"6.5 lbs with 4 Cell Battery",

"Keyboard":"RGB (4-Zone) Keyboard",

"ExtraFeatures":"Finger Print Reader",

"ExtraFeaturesSvojstva":

    [

        {"ExtraFeaturesSvojstva":"Built-in FHD Video Camera"}

    ]

},

{

"Naziv":"Asus G703GI",

"Oznaka":"AsusG703GI",

"Display":"17.3" FHD (1920x1080), matte, 144Hz, WV, G-SYNC",

"Processor":"Intel® Core™ i9-8950HK 2.9GHz (Turbo up to 4.8GHz)",

"Chipset":"Intel® HM370 Chipset",

"StandardHardDrive":"256GB NVMe/PCIE SSD + 1TB SSHD (8GB Cache) FireCuda(Upgradeable)",

"GraphicsController":"NVIDIA® GTX 1080 6GB GDDR5",

"GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x16"},

        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

        {"svojstvo":"Battery Boost 2.0 Ready"},

                    {"svojstvo":"NVIDIA® PhysX® Technology"},

                    {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

                    {"svojstvo":"Support 4 active displays"}

            ],

        "StandardMemory":"32GB DDR4 2133MHz Supports Dual Channel DDR4",

        "StandardMemorySvojstvo":"Expandable up to 64GB, depends on 8GB/16GB SODIMM module ",

        "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2666 MHz",

        "AudioFeatures":"2 x Speakers",

        "AudioFeaturesSvojstva":

            [

                    {"AudioFeaturesSvojstva":"1 x woofer"}

            ],

        "NetworkCommunication1":"INTEL 9560 Gigabit WIFI 2x2 802.11ac Wave 2",

        "NetworkCommunication2":"10/100/1000 Mbps",

        "Slots":"3-in-1 Card Reader",

        "SlotsSvojstva":

            [

                    {"SlotsSvojstva":"SD"}

            ],

        "InputOutputPorts":

            [

                    {"InputOutputPortsSvojstva":"1 x Headphone-out & Audio-in Combo Jack"},

                    {"InputOutputPortsSvojstva":"1 x RJ45 LAN Jack for LAN insert"},

                    {"InputOutputPortsSvojstva":"1 x HDMI"},

                    {"InputOutputPortsSvojstva":"1 x mini Display Port"},

                    {"InputOutputPortsSvojstva":"3 x USB Type-A 3.1 (Gen-2)"},

                    {"InputOutputPortsSvojstva":"1 x USB Type-C 3.1 (Gen-2)"}

            ],

        "Battery":"4 cell (71WHrs) - Li-Polymer Battery Pack",

        "Size":"16.7"(W) x 12.6"(D) x 2.0"(H)",

        "Weight":"6.5 lbs with 4 Cell Battery",

        "Keyboard":"ROG AURA RGB - Individual Key",

        "ExtraFeatures":"Finger Print Reader",

        "ExtraFeaturesSvojstva":

            [

                    {"ExtraFeaturesSvojstva":"Built-in FHD Video Camera"}

            ]

},

{

 "Naziv":"GIGABYTE AERO 15W V8-BK4",

 "Oznaka":"GIGABYTEAERO15WV8-BK4",

 "Display":"15.6" Thin Bezel FHD 144Hz 1920x1080 IPS anti-glare display LCD",

 "Processor":"Intel® Core™ i7-8750H 2.2GHz-4.1GHz",

 "Chipset":"Intel® HM370 Chipset",

 "StandardHardDrive":"500GB SSD + 1TB (7200RPM) HDD(Upgradeable)",

 "GraphicsController":"NVIDIA® GeForce® GTX 1060 6G GDDR5 Supports NVIDIA® Optimus™ Technology",

 "GraphicsControllerSvojstva":

  [

   {"svojstvo":"Support PCIe x16"},

   {"svojstvo":"Microsoft® DirectX® 12 compatible"},

   {"svojstvo":"Battery Boost 2.0 Ready"},

   {"svojstvo":"NVIDIA® PhysX® Technology"},

   {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

   {"svojstvo":"Support 4 active displays"}

  ],

 "StandardMemory":"16GB (16G*1) DDR4 2400MHz Supports Dual Channel DDR4",

 "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

 "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2666 MHz",

 "AudioFeatures":"Dolby® ATMOS Gaming",

 "AudioFeaturesSvojstva":

  [

   {"AudioFeaturesSvojstva":"2 x 2 Watt Speaker"},

   {"AudioFeaturesSvojstva":"Microphone"}

  ],

 "NetworkCommunication1":"Ethernet Port 10/100/1000Mbps",

 "NetworkCommunication2":"802.11ac Bluetooth™ v4.2 + LE",

 "Slots":"SD Card Reader",

 "SlotsSvojstva":

  [

   {"SlotsSvojstva":"(UHS-II)"}

  ],

 "InputOutputPorts":

  [

   {"InputOutputPortsSvojstva":"1 x Thunderbolt 3"},

   {"InputOutputPortsSvojstva":"2 x USB 3.1 Gen 1 (Type-A)"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 (Type-A)"},

{"InputOutputPortsSvojstva":"1 x mini-DP 1.4"},

{"InputOutputPortsSvojstva":"HDMI 2.0 x HDCP 2.2"}

],

"Battery":"94.24Wh - Li-Ion Battery Pack",

"Size":"14.00"(W) x 9.8"(D) x 0.78"(H)",

"Weight":"4.62 lbs with 6-cell Battery",

"Keyboard":"Gigabyte Fusion Per Key RGB Keyboard",

"ExtraFeatures":"Finger Print Reader",

"ExtraFeaturesSvojstva":

[

{"ExtraFeaturesSvojstva":"Built-in HD Video Camera"}

]

},

{

"Naziv":"GIGABYTE AERO 15X V8-BK4",

"Oznaka":"GIGABYTEAERO15XV8-BK4",

"Display":"15.6" Thin Bezel FHD 144Hz 1920x1080 IPS anti-glare display LCD",

"Processor":"Intel® Core™ i7-8750H 2.2GHz-4.1GHz",

"Chipset":"Intel® HM370 Chipset",

"StandardHardDrive":"500GB NVMe SSD + 1TB (7200RPM) HDD(Upgradeable)",

"GraphicsController":"NVIDIA® GeForce® GTX 1070 MAX-Q GDDR5 8GB Supports NVIDIA® Optimus™

Technology",

"GraphicsControllerSvojstva":

[

{"svojstvo":"Support PCIe x16"},

{"svojstvo":"Microsoft® DirectX® 12 compatible"},

{"svojstvo":"Battery Boost 2.0 Ready"},

{"svojstvo":"NVIDIA® PhysX® Technology"},

{"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

{"svojstvo":"Support 4 active displays"}

],

"StandardMemory":"16GB (16G*1) DDR4 2400MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2666 MHz",

"AudioFeatures":"Dolby® ATMOS Gaming",

"AudioFeaturesSvojstva":

```
            [

                    {"AudioFeaturesSvojstva":"2 x 2 Watt Speaker"},

                    {"AudioFeaturesSvojstva":"Microphone"}

            ],

    "NetworkCommunication1":"Ethernet Port 10/100/1000Mbps",

    "NetworkCommunication2":"802.11ac Bluetooth™ v4.2 + LE",

    "Slots":"SD Card Reader",

    "SlotsSvojstva":

            [

                    {"SlotsSvojstva":"(UHS-II)"}

            ],

    "InputOutputPorts":

            [

                    {"InputOutputPortsSvojstva":"1 x Thunderbolt 3"},

                    {"InputOutputPortsSvojstva":"2 x USB 3.1 Gen 1 (Type-A)"},

                    {"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 (Type-A)"},

                    {"InputOutputPortsSvojstva":"1 x mini-DP 1.4"},

                    {"InputOutputPortsSvojstva":"HDMI 2.0 x HDCP 2.2"}

            ],

    "Battery":"94.24Wh - Li-Ion Battery Pack",

    "Size":"14.00"(W) x 9.8"(D) x 0.78"(H)",

    "Weight":"4.62 lbs with 6-cell Battery",

    "Keyboard":"Gigabyte Fusion Per Key RGB Keyboard",

    "ExtraFeatures":"Finger Print Reader",

    "ExtraFeaturesSvojstva":

            [

                    {"ExtraFeaturesSvojstva":"Built-in HD Video Camera"}

            ]

},



{

    "Naziv":"GIGABYTE AERO 15X V8-BK4P",

    "Oznaka":"GIGABYTEAERO15XV8-BK4P",

    "Display":"15.6" Thin Bezel UHD Adobe RGB 100% 3840x2160 IPS anti-glare display LCD",

    "Processor":"Intel® Core™ i7-8750H 2.2GHz-4.1GHz",

    "Chipset":"Intel® HM370 Chipset",

    "StandardHardDrive":"500GB NVMe SSD + 1TB (7200RPM) HDD(Upgradeable)",
```

"GraphicsController":"NVIDIA® GeForce® GTX 1070 MAX-Q GDDR5 8GB Supports NVIDIA® Optimus™ Technology",

"GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x16"},

        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

        {"svojstvo":"Battery Boost 2.0 Ready"},

        {"svojstvo":"NVIDIA® PhysX® Technology"},

        {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

        {"svojstvo":"Support 4 active displays"}

    ],

"StandardMemory":"16GB (16G*1) DDR4 2400MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2666 MHz",

"AudioFeatures":"Dolby® ATMOS Gaming",

"AudioFeaturesSvojstva":

    [

        {"AudioFeaturesSvojstva":"2 x 2 Watt Speaker"},

        {"AudioFeaturesSvojstva":"Microphone"}

    ],

"NetworkCommunication1":"Ethernet Port 10/100/1000Mbps",

"NetworkCommunication2":"802.11ac Bluetooth™ v4.2 + LE",

"Slots":"SD Card Reader",

"SlotsSvojstva":

    [

        {"SlotsSvojstva":"(UHS-II)"}

    ],

"InputOutputPorts":

    [

        {"InputOutputPortsSvojstva":"1 x Thunderbolt 3"},

        {"InputOutputPortsSvojstva":"2 x USB 3.1 Gen 1 (Type-A)"},

        {"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 (Type-A)"},

        {"InputOutputPortsSvojstva":"1 x mini-DP 1.4"},

        {"InputOutputPortsSvojstva":"HDMI 2.0 x HDCP 2.2"}

    ],

"Battery":"94.24Wh - Li-Ion Battery Pack",

"Size":"14.00"(W) x 9.8"(D) x 0.78"(H)",

"Weight":"4.62 lbs with 6-cell Battery",

"Keyboard":"Gigabyte Fusion Per Key RGB Keyboard",

"ExtraFeatures":"Finger Print Reader",

"ExtraFeaturesSvojstva":

    [

        {"ExtraFeaturesSvojstva":"Built-in HD Video Camera"}

    ]

},

{

"Naziv":"MSI GP63 LEOPARD-041",

"Oznaka":"MSIGP63LEOPARD-041",

"Display":"15.6" FHD (1920*1080), 120Hz 3ms Wideview 94%NTSC Color Anti-Glare",

"Processor":"Intel® Core™ i7-7700HQ 2.8 - 3.8 Ghz w/ Turbo Boost",

"Chipset":"Intel® HM175 Chipset",

"StandardHardDrive":"1TB (7200RPM) HDD(Upgradeable)",

"GraphicsController":"NVIDIA GeForce® GTX 1060 6G GDDR5 ",

"GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x16"},

        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

        {"svojstvo":"Battery Boost 2.0 Ready"},

        {"svojstvo":"NVIDIA® PhysX® Technology"},

        {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

        {"svojstvo":"Support 4 active displays"}

    ],

"StandardMemory":"16GB (16G*1) DDR4 2133MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400 MHz",

"AudioFeatures":"Nahimic Sound",

"AudioFeaturesSvojstva":

    [

        {"AudioFeaturesSvojstva":"2 x Giant Speakers"},

        {"AudioFeaturesSvojstva":"2 x Woofers"}

    ],

"NetworkCommunication1":"Killer Gaming Network E2500 LAN",

"NetworkCommunication2":"Intel® 4th Generation Dual Band Wireless-AC 8265 802.11ac, 2x2 Wifi + Bluetooth®",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

                    [

                            {"SlotsSvojstva":"SD (XC/HC)"}

                    ],

        "InputOutputPorts":

                    [

                            {"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 1 Type C"},

                            {"InputOutputPortsSvojstva":"3 x USB 3.1 Gen 1"},

                            {"InputOutputPortsSvojstva":"1 x HDMI 1.4"},

                            {"InputOutputPortsSvojstva":"1 x mDP v1.2"},

                            {"InputOutputPortsSvojstva":"2 x RJ-45 LAN (10/100/1000Mbps)"}

                    ],

        "Battery":"6 cell (51Wh) - Li-Ion Battery Pack",

        "Size":"15.07"(W) x 10.23"(D) x 1.16"(H)",

        "Weight":"4.8 lbs with 6-cell Battery",

        "Keyboard":"Steel Series Full-color backlight with Anti-Ghost key + silver lining",

        "ExtraFeatures":"Illuminated Top cover",

        "ExtraFeaturesSvojstva":

                    [

                            {"ExtraFeaturesSvojstva":"Built-in HD Video Camera"},

                            {"ExtraFeaturesSvojstva":"Finger Print Reader"}

                    ]

},

{

        "Naziv":"MSI GE63VR RAIDER-632",

        "Oznaka":"MSIGE63VRRAIDER-632",

        "Display":"15.6" FHD (1920*1080), 120Hz 3ms Wideview 94%NTSC Color Anti-Glare",

        "Processor":"Intel® Core™ i7-7700HQ 2.8 - 3.8 Ghz w/ Turbo Boost",

        "Chipset":"Intel® HM175 Chipset",

        "StandardHardDrive":"128GB SSD + 1TB 7200RPM Hard Drive (Upgradeable)",

        "GraphicsController":"NVIDIA GeForce® GTX 1060 6G GDDR5",

        "GraphicsControllerSvojstva":

                    [

                            {"svojstvo":"Support PCIe x16"},

                            {"svojstvo":"Microsoft® DirectX® 12 compatible"},

                            {"svojstvo":"Battery Boost 2.0 Ready"},

                            {"svojstvo":"NVIDIA® PhysX® Technology"},

                            {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"}

                        ],

        "StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

        "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

        "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400 MHz",

        "AudioFeatures":"Nahimic Sound",

        "AudioFeaturesSvojstva":

                [

                        {"AudioFeaturesSvojstva":"2 x Giant Speakers"},

                        {"AudioFeaturesSvojstva":"2 x Woofers"}

                ],

        "NetworkCommunication1":"Killer Gaming Network E2500 LAN",

        "NetworkCommunication2":"Intel® 4th Generation Dual Band Wireless-AC 8265 802.11ac, 2x2 Wifi + Bluetooth®",

        "Slots":"3-in-1 Card Reader",

        "SlotsSvojstva":

                [

                        {"SlotsSvojstva":"SD (XC/HC)"}

                ],

        "InputOutputPorts":

                [

                        {"InputOutputPortsSvojstva":"3 x USB 3.0"},

                        {"InputOutputPortsSvojstva":"1 x USB Type-C 3.1"},

                        {"InputOutputPortsSvojstva":"1 x 1/1(SPDIF)/ Line-in/Line-out"},

                        {"InputOutputPortsSvojstva":"1 x HDMI (supports 4K@60hz)"},

                        {"InputOutputPortsSvojstva":"1 x mDP 1.2"},

                        {"InputOutputPortsSvojstva":"1 x Microphone"},

                        {"InputOutputPortsSvojstva":"1 x Headphone Out Jack"},

                        {"InputOutputPortsSvojstva":"2 x RJ-45 LAN (10/100/1000Mbps)"}

                ],

        "Battery":"6 cell (51Whr) - Smart Lithium-Ion Battery Packk",

        "Size":"15.08"(W)x10.24"(D)x1.08"(H)",

        "Weight":"4.85 lbs with 6 Cell Battery",

        "Keyboard":"Steel Series Full-color backlight with Anti-Ghost key + silver lining",

        "ExtraFeatures":"Built-in FHD type (30fps@1080p)",

        "ExtraFeaturesSvojstva":

                [

                        {"ExtraFeaturesSvojstva":"Kensington® Lock"}

                ]

},

{

    "Naziv":"MSI GS65 STEALTH THIN-500",

    "Oznaka":"MSIGS65StealthTHIN-500",

    "Display":"15.6" FHD, Anti-Glare Wide View Angle 144Hz 7ms 72% NTSC 1920x1080 16:9",

    "Processor":"Intel® Core™ i7-8750H 3.9 - 4.1GHz",

    "Chipset":"Intel® HM370 Chipset",

    "StandardHardDrive":"128GB SSD + 1TB 5400RPM Hard Drive (Upgradeable)",

    "GraphicsController":"NVIDIA® GeForce® GTX 1060 6G GDDR5",

    "GraphicsControllerSvojstva":

        [

            {"svojstvo":"Support PCIe x16"},

            {"svojstvo":"Microsoft® DirectX® 12 compatible"},

            {"svojstvo":"Battery Boost 2.0 Ready"},

            {"svojstvo":"NVIDIA® PhysX® Technology"},

            {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

            {"svojstvo":"Support 4 active displays"}

        ],

    "StandardMemory":"8GB DDR4 2133MHz Supports Dual Channel DDR4",

    "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

    "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2133 MHz",

    "AudioFeatures":"2 x Dynaudio Speakers 2W",

    "AudioFeaturesSvojstva":

        [

            {"AudioFeaturesSvojstva":"1/1 SPDIF (ESS Sabre HiFi)"}

        ],

    "NetworkCommunication1":"Killer Gaming Network E2500 LAN",

    "NetworkCommunication2":"Killer N1550 Combo (2*2 ac) Intel ® PTT BT 5",

    "Slots":"3-in-1 Card Reader",

    "SlotsSvojstva":

        [

            {"SlotsSvojstva":"SD (XC/HC)"}

        ],

    "InputOutputPorts":

        [

            {"InputOutputPortsSvojstva":"1 x Thunderbolt 3"},

            {"InputOutputPortsSvojstva":"3 x USB 3.1 Gen 2"},

            {"InputOutputPortsSvojstva":"1 x HDMI 2.0"},

                                {"InputOutputPortsSvojstva":"1 x mDP v1.2"}

                ],

        "Battery":"4 cell (82Whr) - Li-Polymer Battery Pack",

        "Size":"14.08"(W) x 9.75"(D) x 0.69"(H)",

        "Weight":"4.14 lbs with 4-cell Battery",

        "Keyboard":"Steel Series per-Key RGB with Anti-Ghost key (84 Key)",

        "ExtraFeatures":"Built-in FHD type (30fps@1080p)",

        "ExtraFeaturesSvojstva":

                [

                                {"ExtraFeaturesSvojstva":"Kensington® Lock"}

                ]

},

{

        "Naziv":"MSI GT63 TITAN-046",

        "Oznaka":"MSIGT63TITAN-046",

        "Display":"15.6"FHD (1920x1080), 120Hz 3ms Wideview 94% NTSC Color Anti-Glare 16:9 G-Sync",

        "Processor":"Intel® Core™ i7-8750H 3.9 - 4.1GHz",

        "Chipset":"Intel® HM370 Chipset",

        "StandardHardDrive":"256GB NVMe SSD + 1TB 7200RPM Hard Drive (Upgradeable)",

        "GraphicsController":"NVIDIA® GeForce® GTX 1080 8G GDDR5X ",

        "GraphicsControllerSvojstva":

                [

                                {"svojstvo":"Support PCIe x16"},

                                {"svojstvo":"Microsoft® DirectX® 12 compatible"},

                                {"svojstvo":"Battery Boost 2.0 Ready"},

                                {"svojstvo":"NVIDIA® PhysX® Technology"},

                                {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

                                {"svojstvo":"Support NVIDIA® SLI™ Technology"}

                ],

        "StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

        "StandardMemorySvojstvo":"Expandable up to 64GB, depends on 8GB/16GB SODIMM module ",

        "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400 MHz",

        "AudioFeatures":"4 x Dynaudio Speakers 2W",

        "AudioFeaturesSvojstva":

                [

                                {"AudioFeaturesSvojstva":"1 x Subwoofer 5W"},

                                {"AudioFeaturesSvojstva":"1/1 SPDIF"}

                ],

        "NetworkCommunication1":"Killer Gaming Network E2500 LAN",

        "NetworkCommunication2":"Bigfoot® Killer™ N1550 Wireless-AC LAN + Bluetooth™ 5.0",

        "Slots":"3-in-1 Card Reader",

        "SlotsSvojstva":

                [

                        {"SlotsSvojstva":"SD (XC/HC)"}

                ],

        "InputOutputPorts":

                [

                        {"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Type C"},

                        {"InputOutputPortsSvojstva":"3 x USB 3.1 Gen 2"},

                        {"InputOutputPortsSvojstva":"1 x USB 2.0"},

                        {"InputOutputPortsSvojstva":"1 x HDMI 2.0"},

                        {"InputOutputPortsSvojstva":"1 x mDP v1.2"}

                ],

        "Battery":"8 Cells (75Wh) - Li-Ion Battery Pack",

        "Size":"15.35"(w) x 10.47"(d) x 1.56"(h)",

        "Weight":"4.14 lbs with 4-cell Battery",

        "Keyboard":"Steel Series per-Key RGB with Anti-Ghost key+ silver lining",

        "ExtraFeatures":"Built-in FHD type (30fps@1080p)",

        "ExtraFeaturesSvojstva":

                [

                        {"ExtraFeaturesSvojstva":"Kensington® Lock"}

                ]

},

{

        "Naziv":"MSI GL73 8RD-031",

        "Oznaka":"MSIGL738RD-031",

        "Display":"17.3" Full HD eDP Non Reflection 72% NTSC 1920x1080 16:9",

        "Processor":"Intel® Core™ i7-8750H 3.9 - 4.1GHz",

        "Chipset":"Intel® HM370 Chipset",

        "StandardHardDrive":" 128GB M.2 SATA + 1TB (5400RPM) HDD (Upgradeable)",

        "GraphicsController":"NVIDIA® GeForce® GTX GTX 1050Ti 4G GDDR5",

        "GraphicsControllerSvojstva":

                [

                        {"svojstvo":"Support PCIe x16"},

{"svojstvo":"Microsoft® DirectX® 12 compatible"},

{"svojstvo":"Battery Boost 2.0 Ready"},

{"svojstvo":"NVIDIA® PhysX® Technology"},

{"svojstvo":"NVIDIA® GeForce CUDA™ Technology"}

],

"StandardMemory":"8GB DDR4 2133MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets",

"AudioFeatures":"2 x Giant™ Speakers 3W",

"AudioFeaturesSvojstva":

[

{"AudioFeaturesSvojstva":"Headset AMP + Gold Flash jacks"}

],

"NetworkCommunication1":"QCA8171 LAN",

"NetworkCommunication2":"Intel Wireless-AC 9462 (1*1 a/c) ",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

[

{"SlotsSvojstva":"SD (XC/HC)"}

],

"InputOutputPorts":

[

{"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Type C"},

{"InputOutputPortsSvojstva":"3 x USB 3.1 Gen 2"},

{"InputOutputPortsSvojstva":"1 x HDMI 1.4"},

{"InputOutputPortsSvojstva":"1 x mDP v1.2"}

],

"Battery":"6 cell (41Wh) Li-Ion Battery Pack",

"Size":"16.49”(W) x 11.29”(D) x 1.25”(H)",

"Weight":"5.95lbs with 6-cell Battery",

"Keyboard":"Steel Series per-Key RGB with Anti-Ghost key+ silver lining",

"ExtraFeatures":"Built-in HD type (30fps@720p)",

"ExtraFeaturesSvojstva":

[

{"ExtraFeaturesSvojstva":"Kensington® Lock"}

]

},

{

"Naziv":"MSI GE73VR Raider-732",

"Oznaka":"MSIGE73VRRaider-732",

"Display":"17.3" FHD, Anti-Glare Wide View Angle 120Hz 3ms 94%NTSC",

"Processor":"Intel® Core™ i7-7700HQ 2.8 - 3.8 Ghz w/ Turbo Boost",

"Chipset":"Intel® HM175 Chipset",

"StandardHardDrive":"1TB (7200RPM) HDD(Upgradeable)",

"GraphicsController":"NVIDIA® GeForce® GTX 1060 6G GDDR5",

"GraphicsControllerSvojstva":

        [

                {"svojstvo":"Support PCIe x16"},

                {"svojstvo":"Microsoft® DirectX® 12 compatible"},

                {"svojstvo":"Battery Boost 2.0 Ready"},

                {"svojstvo":"NVIDIA® PhysX® Technology"},

                {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"}

        ],

"StandardMemory":"8GB DDR4 2133MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets",

"AudioFeatures":"Nahimic Sound",

"AudioFeaturesSvojstva":

        [

                {"AudioFeaturesSvojstva":"2 x Built-in Giant® Speakers"},

                {"AudioFeaturesSvojstva":"2 x Built-in Woofers"},

                {"AudioFeaturesSvojstva":"S/PDIF Digital Output"}

        ],

"NetworkCommunication1":"Killer Gaming Network E2500 LAN",

"NetworkCommunication2":"Intel® 4th Generation Dual Band Wireless-AC 8265 802.11ac, 2x2 Wifi + Bluetooth®",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

        [

                {"SlotsSvojstva":"SD (XC/HC)"}

        ],

"InputOutputPorts":

        [

                {"InputOutputPortsSvojstva":"3 x USB 3.0 Ports"},

                {"InputOutputPortsSvojstva":"1 x USB 3.1 (Type-C) Port"},

                {"InputOutputPortsSvojstva":"1 x HDMI (supports 4K@60hz)"},

{"InputOutputPortsSvojstva":"1 x Microphone"},

{"InputOutputPortsSvojstva":"1 x Headphone Out Jack"}

],

"Battery":"6 cell (51Whr) - Smart Lithium-Ion Battery Pack",

"Size":"16.49"(W) x 11.22"(D) x 1.12"(H)",

"Weight":"6.17 lbs with 6 Cell Battery",

"Keyboard":"Steel Series per-Key RGB with Anti-Ghost key+ silver lining",

"ExtraFeatures":"Built-in HD type (30fps@720p)",

"ExtraFeaturesSvojstva":

[

{"ExtraFeaturesSvojstva":"Kensington® Lock"}

]

},

{

"Naziv":"MSI GP73 Leopard-014",

"Oznaka":"MSIGP73Leopard-014",

"Display":"17.3" FHD 120Hz 3ms Wideview 94% NTSC Color Anti-Glare 1920x1080 16:9",

"Processor":"Intel® Core™ i7-8750H 3.9 - 4.1GHz",

"Chipset":"Intel® HM370 Chipset",

"StandardHardDrive":" 256GB SSD + 1TB 7200RPM Hard Drive (Upgradeable)",

"GraphicsController":"NVIDIA® GeForce® GTX 1060 6G GDDR5",

"GraphicsControllerSvojstva":

[

{"svojstvo":"Support PCIe x16"},

{"svojstvo":"Microsoft® DirectX® 12 compatible"},

{"svojstvo":"Battery Boost 2.0 Ready"},

{"svojstvo":"NVIDIA® PhysX® Technology"},

{"svojstvo":"NVIDIA® GeForce CUDA™ Technology"}

],

"StandardMemory":"8GB DDR4 2133MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets",

"AudioFeatures":"2 x Giant Speakers 3W",

"AudioFeaturesSvojstva":

[

{"AudioFeaturesSvojstva":"Headset AMP + Gold Flash jacks"}

],

"NetworkCommunication1":"Killer Gaming Network E2500 LAN",

"NetworkCommunication2":"Intel® 1st Generation Intergrated Dual Band Wireless-AC 9560 802.11ac, 2x2 Wi-Fi +
Bluetooth®5",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

    [

        {"SlotsSvojstva":"SD (XC/HC)"}

    ],

"InputOutputPorts":

    [

        {"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Type C"},

        {"InputOutputPortsSvojstva":"2 x USB 3.1 Gen 1"},

        {"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2"},

        {"InputOutputPortsSvojstva":"1 x HDMI 2.0"},

        {"InputOutputPortsSvojstva":"1 x mDP v1.2"}

    ],

"Battery":"6 cell (51Wh) - Li-Ion Battery Pack",

"Size":"16.49"(W) x 11.29(D) x 1.25(H)",

"Weight":"5.95lbs with 6-cell Battery",

"Keyboard":"Steel Series Full-color backlight with Anti-Ghost key + silver lining",

"ExtraFeatures":"Built-in HD type (30fps@720p)",

"ExtraFeaturesSvojstva":

    [

        {"ExtraFeaturesSvojstva":"Kensington® Lock"}

    ]

},

{

"Naziv":"MSI GS73VR Stealth Pro",

"Oznaka":"MSIGS73VRStealthPro",

"Display":"17.3" FHD (1920x1080), 120Hz 5ms Wideview 94%NTSC Color Anti-Glare",

"Processor":"7th Generation Intel® Mobile Core i7-7700HQ Kabylake Processor",

"Chipset":"Intel® HM175 Express Chipset",

"StandardHardDrive":" 256GB SSD + 1TB 7200RPM Hard Drive (Upgradeable)",

"GraphicsController":"NVIDIA® GeForce GTX 1070 8G GDDR5",

"GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x16"},

{"svojstvo":"Microsoft® DirectX® 12 compatible"},

{"svojstvo":"Battery Boost 2.0 Ready"},

{"svojstvo":"NVIDIA® PhysX® Technology"},

{"svojstvo":"NVIDIA® GeForce CUDA™ Technology"}

],

"StandardMemory":"8GB DDR4 2400MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets",

"AudioFeatures":"4 x Built-in Speakers",

"AudioFeaturesSvojstva":

[

{"AudioFeaturesSvojstva":"1 x Built-in Woofer"},

{"AudioFeaturesSvojstva":"1/1/1 (ESS Sabre HiFi)"}

],

"NetworkCommunication1":"Bigfoot® Killer™ E2500 Gaming Network LAN",

"NetworkCommunication2":"Bigfoot Networks Killer™ Dual Band Wireless-AC N1535 - 802.11 + Bluetooth",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

[

{"SlotsSvojstva":"SD (XC/HC)"}

],

"InputOutputPorts":

[

{"InputOutputPortsSvojstva":"1 x USB Thunderbolt 3"},

{"InputOutputPortsSvojstva":"2 x USB 3.0 Ports"},

{"InputOutputPortsSvojstva":"1 x USB 2.0 Ports"},

{"InputOutputPortsSvojstva":"1 x HDMI 2.0"},

{"InputOutputPortsSvojstva":"1 x Microphone"},

{"InputOutputPortsSvojstva":"1 x Headphone Out Jack"}

],

"Battery":"3 cell (65Whr) - Smart Lithium-Ion Battery Pack",

"Size":"16.21" (w) x 11.21" (d) x 0.77" (h)",

"Weight":"5.35 lbs with 3-cell Battery",

"Keyboard":"Steel Series Full-color backlight with Anti-Ghost key + silver lining",

"ExtraFeatures":"Built-in HD type (30fps@720p)",

"ExtraFeaturesSvojstva":

[

{"ExtraFeaturesSvojstva":"Kensington® Lock"}

```
                ]
    },


    {
            "Naziv":"MSI GE73VR Raider-745",

            "Oznaka":"MSIGE73VRRaider-745",

            "Display":"17.3" FHD, Anti-Glare Wide View Angle 120Hz 3ms 94%NTSC 1920x1080 (16:9)",

            "Processor":"7th Generation Intel® Mobile Core i7-7700HQ Kaby Lake Processor",

            "Chipset":"Intel® HM175 Express Chipset",

            "StandardHardDrive":"1TB 7200RPM Hard Drive (Upgradeable)",

            "GraphicsController":"NVIDIA® GeForce GTX 1070 8G GDDR5",

            "GraphicsControllerSvojstva":

                    [

                            {"svojstvo":"Support PCIe x16"},

                            {"svojstvo":"Microsoft® DirectX® 12 compatible"},

                            {"svojstvo":"Battery Boost 2.0 Ready"},

                            {"svojstvo":"NVIDIA® PhysX® Technology"},

                            {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"}

                    ],

            "StandardMemory":"8GB DDR4 2133MHz Supports Dual Channel DDR4",

            "StandardMemorySvojstvo":"Expandable up to 32GB 3000MHz Max, depends on 8GB/16GB SODIMM module ",

            "NumberOfSODIMMS":"Two 260 pins SODIMM sockets",

            "AudioFeatures":"Sound Blaster Cinema",

            "AudioFeaturesSvojstva":

                    [

                            {"AudioFeaturesSvojstva":"2 x Built-in Giant® Speakers"},

                            {"AudioFeaturesSvojstva":"2 x Built-in Woofers"},

                            {"AudioFeaturesSvojstva":"S/PDIF Digital Output"}

                    ],

            "NetworkCommunication1":"Bigfoot® Killer™ E2500 Gaming Network LAN",

            "NetworkCommunication2":"Killer N1435 Combo Wireless-AC LAN + Bluetooth™ 4.2 [M.2]",

            "Slots":"3-in-1 Card Reader",

            "SlotsSvojstva":

                    [

                            {"SlotsSvojstva":"SD (XC/HC)"}

                    ],

            "InputOutputPorts":

                    [
```

                        {"InputOutputPortsSvojstva":"3 x USB 3.0 Ports"},

                        {"InputOutputPortsSvojstva":"1 x USB 3.1 (Type-C) Port)"},

                        {"InputOutputPortsSvojstva":"1 x HDMI 2.0"},

                        {"InputOutputPortsSvojstva":"1 x mini-Display Port v1.2"},

                        {"InputOutputPortsSvojstva":"1 x Microphone"},

                        {"InputOutputPortsSvojstva":"1 x Headphone Out Jack"}

            ],

      "Battery":"6 Cells - Smart Lithium-Ion Battery Pack",

      "Size":"16.49" (W) x 11.22" (D) x 1.12" (H)",

      "Weight":"6.17 lbs with 6 Cell Battery",

      "Keyboard":"Steel Series Full-color backlight with Anti-Ghost key + silver lining",

      "ExtraFeatures":"Built-in FHD Type Digital Web Camera",

      "ExtraFeaturesSvojstva":

            [

                        {"ExtraFeaturesSvojstva":"Kensington® Lock"}

            ]

},

{

      "Naziv":"MSI GT73VR Titan-427",

      "Oznaka":"MSIGT73VRTitan-427",

      "Display":"17.3" UHD, 4K eDP IPS-Level 3840x2160 (16:9) G-SYNC™",

      "Processor":"7th Generation Intel® Mobile Core i7-7820HK Kaby Lake Processor",

      "Chipset":"Mobile Intel CM238 Express",

      "StandardHardDrive":"256GB SSD + 1TB 7200RPM Hard Drive (Upgradeable)",

      "GraphicsController":"NVIDIA® GeForce® GTX 1070 (8.0GB) GDDR5 (Pascal)",

      "GraphicsControllerSvojstva":

            [

                        {"svojstvo":"Support PCIe x16"},

                        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

                        {"svojstvo":"Battery Boost 2.0 Ready"},

                        {"svojstvo":"NVIDIA® PhysX® Technology"},

                        {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

                        {"svojstvo":"NVIDIA® G-SYNC™ Technology"}

            ],

      "StandardMemory":"8GB DDR4 2400MHz Supports Dual Channel DDR4",

      "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

      "NumberOfSODIMMS":"Two 260 pins SODIMM sockets",

"AudioFeatures":"Dynaudio Premium Sound Technology w/ THX TruStudio Pro",

"AudioFeaturesSvojstva":

    [

        {"AudioFeaturesSvojstva":"Support Dolby® Digital Live"},

        {"AudioFeaturesSvojstva":"3D Stereo Enhanced Sound System"},

        {"AudioFeaturesSvojstva":"2 x Built-in 3W Dynaudio Speakers"},

        {"AudioFeaturesSvojstva":"1 x Built-in 5W Woofer"},

        {"AudioFeaturesSvojstva":"S/PDIF Digital Output"}

    ],

"NetworkCommunication1":"Bigfoot® Killer™ E2400 Gaming Network LAN",

"NetworkCommunication2":"Bigfoot® Killer™ N1435 Wireless-AC LAN + Bluetooth™ 4.1",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

    [

        {"SlotsSvojstva":"(SD / SDHC / SDXC)"}

    ],

"InputOutputPorts":

    [

        {"InputOutputPortsSvojstva":"1 x USB Thunderbolt 3 (Type-C) Port"},

        {"InputOutputPortsSvojstva":"5 x USB 3.0 Ports"},

        {"InputOutputPortsSvojstva":"1 x HDMI 2.0"},

        {"InputOutputPortsSvojstva":"1 x mini-Display Port v1.2"},

        {"InputOutputPortsSvojstva":"1 x Microphone"},

        {"InputOutputPortsSvojstva":"1 x Line-in Jack"},

        {"InputOutputPortsSvojstva":"1 x S/PDIF"},

        {"InputOutputPortsSvojstva":"1 x Headphone Out Jack"}

    ],

"Battery":"8 Cells - Smart Lithium-Ion Battery Pack",

"Size":"16.85" (w) x 12.36" (d) x 1.76" (h)",

"Weight":"8.59 lbs with 8-cell Battery",

"Keyboard":"Full Sized Chiclet Steelseries® Full-Color Backlit Keyboard with Anti-Ghost Key + Silver Lining",

"ExtraFeatures":"Built-in FHD Type Digital Web Camera (30fps @ 1080p)",

"ExtraFeaturesSvojstva":

    [

        {"ExtraFeaturesSvojstva":"Kensington® Lock"},

        {"ExtraFeaturesSvojstva":"TDE (turbo drive engine) Technology"},

        {"ExtraFeaturesSvojstva":"Cooler Boost Technology"}

    ]

},

{

    "Naziv":"MSI GS73 STEALTH-016",

    "Oznaka":"MSIGS73STEALTH-016",

    "Display":"17.3" FHD, Anti-Glare Wide View Angle 120Hz 3ms 94% NTSC 1920x1080 16:9",

    "Processor":"Intel® Core™ i7-8750H 3.9 - 4.1GHz",

    "Chipset":"Intel® HM370 Express Chipset",

    "StandardHardDrive":"256GB SSD + 1TB 7200RPM Hard Drive (Upgradeable)",

    "GraphicsController":"NVIDIA® GeForce® GTX 1070 (8.0GB) GDDR5 (Pascal)",

    "GraphicsControllerSvojstva":

        [

            {"svojstvo":"Support PCIe x16"},

            {"svojstvo":"Microsoft® DirectX® 12 compatible"},

            {"svojstvo":"Battery Boost 2.0 Ready"},

            {"svojstvo":"NVIDIA® PhysX® Technology"},

            {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"}

        ],

    "StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

    "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

    "NumberOfSODIMMS":"Two 260 pins SODIMM sockets",

    "AudioFeatures":"4 x Dynaudio Tech Speakers 2W",

    "AudioFeaturesSvojstva":

        [

            {"AudioFeaturesSvojstva":"1 x Subwoofer 3W"},

            {"AudioFeaturesSvojstva":"3D Stereo Enhanced Sound System"},

            {"AudioFeaturesSvojstva":"1/1 SPDIF (ESS Sabre HiFi)"}

        ],

    "NetworkCommunication1":"Killer Gaming Network E2500 LAN",

    "NetworkCommunication2":"Bigfoot® Killer™ N1550 Wireless-AC LAN + Bluetooth™ 5.0",

    "Slots":"3-in-1 Card Reader",

    "SlotsSvojstva":

        [

            {"SlotsSvojstva":"(SD / SDHC / SDXC)"}

        ],

    "InputOutputPorts":

        [

            {"InputOutputPortsSvojstva":"1 x Thunderbolt 3"},

                    {"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2"},

                    {"InputOutputPortsSvojstva":"2 x USB 3.1 Gen 1"},

                    {"InputOutputPortsSvojstva":"1 x USB 2.0"},

                    {"InputOutputPortsSvojstva":"1 x HDMI 2.0"},

                    {"InputOutputPortsSvojstva":"1 x mDP v1.2"}

          ],

    "Battery":"3 cell (51Whr) - Li-Polymer Battery Pack",

    "Size":"16.21"(W) x 11.21"(D) x 0.77"(H)",

    "Weight":"5.35 lbs with 3-cell Battery",

    "Keyboard":"Steel Series per-Key RGB with Anti-Ghost key+ silver lining",

    "ExtraFeatures":"Built-in HD Type Digital Web Camera (30fps @ 720p)",

    "ExtraFeaturesSvojstva":

         [

                    {"ExtraFeaturesSvojstva":"Kensington® Lock"}

         ]

},

{

    "Naziv":"MSI GT75 TITAN-057",

    "Oznaka":"MSIGT75TITAN-057",

    "Display":"17.3" FHD, Anti-Glare Wide View Angle 120Hz 3ms 94%NTSC 1920x1080 16:9 G-Sync",

    "Processor":"Intel® Core™ i7-8850H 4.0 - 4.3GHz",

    "Chipset":"Intel® CM246 Chipset",

    "StandardHardDrive":"256GB SSD + 1TB 7200RPM Hard Drive (Upgradeable)",

    "GraphicsController":"NVIDIA® GeForce® GTX 1080 8G GDDR5",

    "GraphicsControllerSvojstva":

         [

                    {"svojstvo":"Support PCIe x16"},

                    {"svojstvo":"Microsoft® DirectX® 12 compatible"},

                    {"svojstvo":"Battery Boost 2.0 Ready"},

                    {"svojstvo":"NVIDIA® PhysX® Technology"},

                    {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"}

         ],

    "StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

    "StandardMemorySvojstvo":"Expandable up to 64GB 2666 MHz, depends on 8GB/16GB SODIMM module ",

    "NumberOfSODIMMS":"Two 260 pins SODIMM sockets",

    "AudioFeatures":"4 x Dynaudio Tech Speakers 3W",

    "AudioFeaturesSvojstva":

[

    {"AudioFeaturesSvojstva":"1 x Subwoofer 5W"},

    {"AudioFeaturesSvojstva":"1 x Built-in Microphone"},

    {"AudioFeaturesSvojstva":"1/1 SPDIF (ESS Sabre HiFi)"}

],

"NetworkCommunication1":"Multi GIG AQC107 LAN",

"NetworkCommunication2":"Bigfoot® Killer™ N1550 Wireless-AC LAN + Bluetooth™ 5.0",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

[

    {"SlotsSvojstva":"(SD / SDHC / SDXC)"}

],

"InputOutputPorts":

[

    {"InputOutputPortsSvojstva":"1 x Thunderbolt 3"},

    {"InputOutputPortsSvojstva":"5 x USB 3.1 Gen 2"},

    {"InputOutputPortsSvojstva":"1 x HDMI 2.0"},

    {"InputOutputPortsSvojstva":"1 x mDP v1.2"}

],

"Battery":"8 Cells (75Wh) - Li-Ion Battery Pack",

"Size":"16.85"(w) x 12.36"(d) x 1.22-2.28"(h)",

"Weight":"10.05 lbs with 8-cell Battery",

"Keyboard":"Steel Series per-Key RGB Mechanical KB with Anti-Ghost key",

"ExtraFeatures":"Built-in FHD Type Digital Web Camera (30fps @ 1080p)",

"ExtraFeaturesSvojstva":

[

    {"ExtraFeaturesSvojstva":"Kensington® Lock"}

]

},

{

"Naziv":"MSI GT75 TITAN-094",

"Oznaka":"MSIGT75TITAN-094",

"Display":"17.3" FHD, Anti-Glare Wide View Angle 120Hz 3ms 94%NTSC 1920x1080 16:9 G-Sync",

"Processor":"Intel® Core™ i9-8950HK 4.3 - 4.8GHz",

"Chipset":"Intel® CM246 Chipset",

"StandardHardDrive":"256GB SSD + 1TB 7200RPM Hard Drive (Upgradeable)",

"GraphicsController":"NVIDIA® GeForce® GTX 1080 8G GDDR5X",

"GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x16"},

        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

        {"svojstvo":"Battery Boost 2.0 Ready"},

        {"svojstvo":"NVIDIA® PhysX® Technology"},

        {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"}

    ],

"StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 64GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets",

"AudioFeatures":"4 x Dynaudio Tech Speakers 3W",

"AudioFeaturesSvojstva":

    [

        {"AudioFeaturesSvojstva":"1 x Subwoofer 5W"},

        {"AudioFeaturesSvojstva":"1 x Built-in Microphone"},

        {"AudioFeaturesSvojstva":"1/1 SPDIF (ESS Sabre HiFi)"}

    ],

"NetworkCommunication1":"Multi GIG AQC107 LAN",

"NetworkCommunication2":"Bigfoot® Killer™ N1550 Wireless-AC LAN + Bluetooth™ 5.0",

"Slots":"3-in-1 Card Reader",

"SlotsSvojstva":

    [

        {"SlotsSvojstva":"(SD / SDHC / SDXC)"}

    ],

"InputOutputPorts":

    [

        {"InputOutputPortsSvojstva":"1 x Thunderbolt 3"},

        {"InputOutputPortsSvojstva":"5 x USB 3.1 Gen 2"},

        {"InputOutputPortsSvojstva":"1 x HDMI 2.0"},

        {"InputOutputPortsSvojstva":"1 x mDP v1.2"}

    ],

"Battery":"8 Cells (75Wh) - Li-Ion Battery Pack",

"Size":"16.85"(w) x 12.36"(d) x 1.22-2.28"(h)",

"Weight":"10.05 lbs with 8-cell Battery",

"Keyboard":"Steel Series per-Key RGB Mechanical KB with Anti-Ghost key",

"ExtraFeatures":"Built-in FHD Type Digital Web Camera (30fps @ 1080p)",

"ExtraFeaturesSvojstva":

[

    {"ExtraFeaturesSvojstva":"Kensington® Lock"}

]

},

{

    "Naziv":"SAGER NP6853",

    "Oznaka":"NP6853",

    "Display":"15.6" Full HD (1920x1080) 120Hz 3ms, Wide View Angle, 94% NTSC Display, Matte Finished",

    "Processor":"8th Generation Intel® Core™ i7-8750H Processor (2.2 GHz), 9MB Smart Cache",

    "Chipset":"Intel® HM370 Express Chipset",

    "StandardHardDrive":"1TB 5400RPM HDD(Upgradeable)",

    "GraphicsController":"NVIDIA® GeForce™ GTX 1050Ti with 4GB GDDR5 Video RAM ",

    "GraphicsControllerSvojstva":

        [

            {"svojstvo":"Support PCIe x16"},

            {"svojstvo":"Microsoft® DirectX® 12 compatible"},

            {"svojstvo":"Battery Boost 2.0 Ready"},

            {"svojstvo":"NVIDIA® PhysX® Technology"},

            {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

            {"svojstvo":"Support 4 active displays"}

        ],

    "StandardMemory":"8GB DDR4 2400MHz Supports Dual Channel DDR4",

    "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module",

    "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400MHz",

    "AudioFeatures":"High Definition audio interface",

    "AudioFeaturesSvojstva":

        [

            {"AudioFeaturesSvojstva":"Built-in Array Microphone"},

            {"AudioFeaturesSvojstva":"Built-in two speakers"},

            {"AudioFeaturesSvojstva":"Sound Blaster™ Cinema 5"}

        ],

    "NetworkCommunication1":"Built-in Gigabit Ethernet LAN",

    "NetworkCommunication2":"Intel® Dual Band Wireless-AC + Bluetooth, M.2 interface",

    "Slots":"Two M.2 Card Slots,",

    "SlotsSvojstva":

        [

            {"SlotsSvojstva":"- 1st for WLAN Combo M.2 2230 Card with PCIe and USB interface"},

{"SlotsSvojstva":"- 2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface"},

{"SlotsSvojstva":"6-in-1 Card Reader / (MMC/RSMMC/SD/Mini-SD/SDHC/SDXC)"}

],

"InputOutputPorts":

[

{"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

{"InputOutputPortsSvojstva":"1 x Mini Display port 1.3"},

{"InputOutputPortsSvojstva":"1 x Mini Display port 1.2"},

{"InputOutputPortsSvojstva":"1 x USB 2.0 Port"},

{"InputOutputPortsSvojstva":"1 x USB 3.0 Port"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Port (Type A)"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Port (Type C)"},

{"InputOutputPortsSvojstva":"1 x Headphone Jack"},

{"InputOutputPortsSvojstva":"1 x Microphone Jack"},

{"InputOutputPortsSvojstva":"1 x RJ-45 LAN (10/100/1000Mbps)"}

],

"Battery":"Removable 6 cells smart Lithium-Ion battery pack 62Wh",

"Size":"14.88” (w) x 10.51” (d) x 1.06” (h) ",

"Weight":"5.51 lbs. including Battery Pack",

"Keyboard":"Multi languages full color illuminated full size keyboard with numeric pad",

"ExtraFeatures":"Intel® PTT (Platform Trust Technology)",

"ExtraFeaturesSvojstva":

[

{"ExtraFeaturesSvojstva":"Built-in 2.0M FHD Video Camerabr"},

{"ExtraFeaturesSvojstva":"FlexiChargerbr"},

{"ExtraFeaturesSvojstva":"Intel® Optane™ Technology"},

{"ExtraFeaturesSvojstva":"Virtual Reality ready via HDMI or miniDP from dGPU"},

{"ExtraFeaturesSvojstva":"Microsoft Cortana with Voice Technology"},

{"ExtraFeaturesSvojstva":"Windows Mixed Reality Compatible"},

{"ExtraFeaturesSvojstva":"Kensington® Lock"}

]

},

{

"Naziv":"SAGER NP7871",

"Oznaka":"NP7871",

"Display":"17.3” Full HD (1920x1080) 144Hz, Wide View Angle 72% NTSC Display, Matte Finished",

"Processor":"8th Generation Intel® Core™ i7-8750H Processor (2.2 GHz), 9MB Smart Cache",

"Chipset":"Intel® HM370 Express Chipset",

"StandardHardDrive":"250GB M.2 SSD + 1TB 5400RPM HDD(Upgradeable)",

"GraphicsController":"NVIDIA® GeForce™ GTX 1060 with 6GB GDDR5 Video RAM",

"GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x16"},

        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

        {"svojstvo":"Battery Boost 2.0 Ready"},

        {"svojstvo":"NVIDIA® PhysX® Technology"},

        {"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

        {"svojstvo":"Support 4 active displays"}

    ],

"StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400MHz",

"AudioFeatures":"High Definition audio interface",

"AudioFeaturesSvojstva":

    [

        {"AudioFeaturesSvojstva":"Built-in Array Microphone"},

        {"AudioFeaturesSvojstva":"Built-in two speakers"},

        {"AudioFeaturesSvojstva":"Sound Blaster™ Cinema 5"}

    ],

"NetworkCommunication1":"Built-in Gigabit Ethernet LAN",

"NetworkCommunication2":"Intel® Dual Band Wireless-AC + Bluetooth, M.2 interface",

"Slots":"Two M.2 Card Slots,",

"SlotsSvojstva":

    [

        {"SlotsSvojstva":"- 1st for WLAN Combo M.2 2230 Card with PCIe and USB interface"},

        {"SlotsSvojstva":"- 2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface"},

        {"SlotsSvojstva":"6-in-1 Card Reader / (MMC/RSMMC/SD/Mini-SD/SDHC/SDXC)"}

    ],

"InputOutputPorts":

    [

        {"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

        {"InputOutputPortsSvojstva":"2 x Mini Display port 1.3"},

        {"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

        {"InputOutputPortsSvojstva":"1 x USB 3.1 / Thunderbolt™ 3 Port (Type-C)"},

        {"InputOutputPortsSvojstva":"2 x USB 3.1 Gen 2 Ports (Type A)"},

        {"InputOutputPortsSvojstva":"2 x USB 3.0 Ports (1 x powered USB port, AC/DC)"},

{"InputOutputPortsSvojstva":"1 x 2-in-1 Audio Jack (Line out / S/PDIF Optical output)"},

{"InputOutputPortsSvojstva":"1 x 2-in-1 Audio Jack (Line out / S/PDIF Optical output)"},

{"InputOutputPortsSvojstva":"1 x Headphone Jack"},

{"InputOutputPortsSvojstva":"1 x Microphone Jack"},

{"InputOutputPortsSvojstva":"1 x RJ-45 LAN (10/100/1000Mbps)"},

{"InputOutputPortsSvojstva":"1 x RJ-45 LAN (10/100/1000Mbps)"}

],

"Battery":"Removable 6 cells smart Lithium-Ion battery pack 62Wh",

"Size":"16.48” (w) x 11.37” (d) x 1.18” (h)",

"Weight":"7.06 lbs. 62WH Battery Pack",

"Keyboard":"Multi languages full color illuminated full size keyboard with numeric pad",

"ExtraFeatures":"Metal top casebr",

"ExtraFeaturesSvojstva":

[

{"ExtraFeaturesSvojstva":"Built-in 2.0M FHD Video Camerabr"},

{"ExtraFeaturesSvojstva":"FlexiChargerbr"},

{"ExtraFeaturesSvojstva":"Intel® Optane™ Technology"},

{"ExtraFeaturesSvojstva":"Virtual Reality ready via HDMI or miniDP from dGPU"},

{"ExtraFeaturesSvojstva":"Microsoft Cortana with Voice Technology"},

{"ExtraFeaturesSvojstva":"Windows Mixed Reality Compatible"},

{"ExtraFeaturesSvojstva":"Kensington® Lock"},

{"ExtraFeaturesSvojstva":"Intel® PTT (Platform Trust Technology)"}

]

},

{

"Naziv":"SAGER NP7851",

"Oznaka":"NP7851",

"Display":"15.6” Full HD (1920x1080) 144Hz 5ms, 72% NTSC, IPS Display, Matte Finished",

"Processor":"8th Generation Intel® Core™ i7-8750H Processor (2.2 GHz), 9MB Smart Cache ",

"Chipset":"Intel® HM370 Express Chipset",

"StandardHardDrive":"250GB M.2 SSD + 1TB 5400RPM HDD",

"GraphicsController":"NVIDIA® GeForce™ GTX 1060 with 6GB GDDR5 Video RAM",

"GraphicsControllerSvojstva":

[

{"svojstvo":"Support PCIe x16"},

{"svojstvo":"Microsoft® DirectX® 12 compatible"},

{"svojstvo":"Battery Boost 2.0 Ready"},

{"svojstvo":"NVIDIA® PhysX® Technology"},

{"svojstvo":"NVIDIA® GeForce CUDA™ Technology"},

{"svojstvo":"Support 4 active displays"}

],

"StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400MHz",

"AudioFeatures":"High Definition audio interface",

"AudioFeaturesSvojstva":

[

{"AudioFeaturesSvojstva":"Built-in Array Microphone"},

{"AudioFeaturesSvojstva":"Built-in two speakers"},

{"AudioFeaturesSvojstva":"Sound Blaster™ Cinema 5"}

],

"NetworkCommunication1":"Built-in Gigabit Ethernet LAN",

"NetworkCommunication2":"Intel® Dual Band Wireless-AC + Bluetooth, M.2 interface",

"Slots":"Two M.2 Card Slots,",

"SlotsSvojstva":

[

{"SlotsSvojstva":"- 1st for WLAN Combo M.2 2230 Card with PCIe and USB interface"},

{"SlotsSvojstva":"- 2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface"},

{"SlotsSvojstva":"6-in-1 Card Reader / (MMC/RSMMC/SD/Mini-SD/SDHC/SDXC)"}

],

"InputOutputPorts":

[

{"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

{"InputOutputPortsSvojstva":"1 x Mini Display port 1.3"},

{"InputOutputPortsSvojstva":"1 x Mini Display port 1.2"},

{"InputOutputPortsSvojstva":"1 x USB 2.0 Port"},

{"InputOutputPortsSvojstva":"1 x USB 3.0 Port"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Port (Type A)"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Port (Type C)"},

{"InputOutputPortsSvojstva":"1 x Headphone Jack"},

{"InputOutputPortsSvojstva":"1 x Microphone Jack"},

{"InputOutputPortsSvojstva":"1 x RJ-45 LAN (10/100/1000Mbps)"}

],

"Battery":"Removable 6 cells smart Lithium-Ion battery pack 62Wh",

"Size":"14.88” (w) x 10.51” (d) x 1.18” (h)",

"Weight":"5.51 lbs. including Battery Pack",

"Keyboard":"Multi languages full color illuminated full size keyboard with numeric pad",

"ExtraFeatures":"Intel® PTT (Platform Trust Technology)",

"ExtraFeaturesSvojstva":

    [

        {"ExtraFeaturesSvojstva":"Built-in 2.0M FHD Video Camerabr"},

        {"ExtraFeaturesSvojstva":"FlexiChargerbr"},

        {"ExtraFeaturesSvojstva":"Intel® Optane™ Technology"},

        {"ExtraFeaturesSvojstva":"Virtual Reality ready via HDMI or miniDP from dGPU"},

        {"ExtraFeaturesSvojstva":"Microsoft Cortana with Voice Technology"},

        {"ExtraFeaturesSvojstva":"Windows Mixed Reality Compatible"},

        {"ExtraFeaturesSvojstva":"Kensington® Lock"}

    ]

},

{

"Naziv":"SAGER NP9155",

"Oznaka":"NP9155",

"Display":"15.6" FHD (1920x1080) IPS Matte Display with G-SYNC Technology",

"Processor":"8th Generation Intel® Core™ i7-8700K Processor (3.70GHz Base / 4.70GHz Max), 6 Cores, 12MB Smart Cache, overclocking",

"Chipset":"Intel® Z370 Express Chipset",

"StandardHardDrive":"250GB M.2 SSD + 1TB 5400RPM Hard Drive (Upgradeable)",

"GraphicsController":"NVIDIA® GeForce™ GTX 1070 GPU with 8GB GDDR5",

"GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x16"},

        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

        {"svojstvo":"MXM3.0 Type B"},

        {"svojstvo":"NVIDIA® PhysX® Technology"},

        {"svojstvo":"NVIDIA® CUDA™ Technology"}

    ],

"StandardMemory":"16GB DDR4 2400MHz",

"StandardMemorySvojstvo":"Upgradeable - 64GB 2400MHz Max",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400MHz",

"AudioFeatures":"High Definition audio interface",

"AudioFeaturesSvojstva":

    [

{"AudioFeaturesSvojstva":"S/PDIF digital output"},

{"AudioFeaturesSvojstva":"Built-in Array Microphone"},

{"AudioFeaturesSvojstva":"Built-in two speakers and a subwoofer"},

{"AudioFeaturesSvojstva":"Sound Blaster™ X-FI® MB5"},

{"AudioFeaturesSvojstva":"ESS™ SABRE HiFi DAC for high resolution headphone audio"},

{"AudioFeaturesSvojstva":"External 7.1CH audio output supported by 2-in-1 Audio, microphone,
Line-in and Line-out jacks"}
],
"NetworkCommunication1":"Killer DoubleShot™ Pro (Integrated Killer E2400 Gigabit Ethernet LAN)",
"NetworkCommunication2":"Integrated Bigfoot® Killer™ N1535 Wireless-AC LAN + Bluetooth™ 4.0 [M.2 Chip]",
"Slots":"Three M.2 Card Slots",
"SlotsSvojstva":
[
{"SlotsSvojstva":"- 1st for WLAN Combo M.2 2230 Card with PCIe and USB interface"},

{"SlotsSvojstva":"- 2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface"},

{"SlotsSvojstva":"- 3rd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface. "}
],
"InputOutputPorts":
[
{"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

{"InputOutputPortsSvojstva":"2 x Mini DisplayPort 1.3"},

{"InputOutputPortsSvojstva":"1 x Thunderbolt™ 3 / USB 3.1 combo Port (Type-C)"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 Port (Type-C)"},

{"InputOutputPortsSvojstva":"3 x USB 3.0 Ports (1 x powered USB port, AC/DC)"},

{"InputOutputPortsSvojstva":"1 x USB 2.0 Port"},

{"InputOutputPortsSvojstva":"1 x 2-in-1 Audio Jack (Headphone / S/PDIF Optical output)"},

{"InputOutputPortsSvojstva":"1 x Microphone Jack"},

{"InputOutputPortsSvojstva":"1 x Line-in Jack"},

{"InputOutputPortsSvojstva":"1 x Line-out jack"},

{"InputOutputPortsSvojstva":"1 x RJ-45 LAN (10/100/1000Mbps)"}
],
"Battery":"Removable 8 cell Smart Lithium-Ion battery pack 82Wh",
"Size":"15.20" (w) x 10.32" (d) x 1.50" (h)",
"Weight":"7.5 LBs with Battery Pack",
"Keyboard":"Multi languages Full Color-LED illuminated full size keyboard with numeric pad ",
"ExtraFeatures":"Rubber Painting",
"ExtraFeaturesSvojstva":
[

                {"ExtraFeaturesSvojstva":"Illuminated Top cover"},

                {"ExtraFeaturesSvojstva":"Built-in 2.0M FHD Video Camera"},

                {"ExtraFeaturesSvojstva":"FlexiCharger"},

                {"ExtraFeaturesSvojstva":"Virtual Reality Ready"},

                {"ExtraFeaturesSvojstva":"Finger Print Reader"},

                {"ExtraFeaturesSvojstva":"Kensington® Lock Capability"}

        ]

},

{

        "Naziv":"SAGER NP6873",

        "Oznaka":"NP6873",

        "Display":"17.3" IPS Full HD (1920x1080) Display, Matte Finished",

        "Processor":"8th Generation Intel® Core™ i7-8750H Processor (2.2 GHz), 9MB Smart Cache",

        "Chipset":"Intel® HM370 Express Chipset",

        "StandardHardDrive":"250GB M.2 SSD + 1TB 5400RPM Hard Drive (Upgradeable)",

        "GraphicsController":"NVIDIA® GeForce™ GTX 1050Ti with 4GB GDDR5 Video RAM",

        "GraphicsControllerSvojstva":

                [

                        {"svojstvo":"Support PCIe x16"},

                        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

                        {"svojstvo":"Battery Boost 2.0 Ready"},

                        {"svojstvo":"NVIDIA® PhysX® Technology"},

                        {"svojstvo":"NVIDIA® CUDA™ Technology"},

                        {"svojstvo":"Support 4 active displays"}

                ],

        "StandardMemory":"16GB DDR4 2133MHz Supports Dual Channel DDR4",

        "StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

        "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2133MHz",

        "AudioFeatures":"High Definition audio interface",

        "AudioFeaturesSvojstva":

                [

                        {"AudioFeaturesSvojstva":"Built-in Array Microphone"},

                        {"AudioFeaturesSvojstva":"Built-in two speakers"},

                        {"AudioFeaturesSvojstva":"Sound Blaster™ Cinema 5"}

                ],

        "NetworkCommunication1":"Built-in Gigabit Ethernet LAN",

        "NetworkCommunication2":"Intel® Dual Band Wireless-AC + Bluetooth, M.2 interface",

"Slots":"Two M.2 Card Slots",

"SlotsSvojstva":

    [

        {"SlotsSvojstva":"- 1st for WLAN Combo M.2 2230 Card with PCIe and USB interface"},

        {"SlotsSvojstva":"- 2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface"}

    ],

"InputOutputPorts":

    [

        {"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

        {"InputOutputPortsSvojstva":"1 x Mini Display 1.3 Port"},

        {"InputOutputPortsSvojstva":"1 x Mini Display 1.2 Port"},

        {"InputOutputPortsSvojstva":"1 x USB 2.0 Port"},

        {"InputOutputPortsSvojstva":"1 x USB 3.0 Port"},

        {"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Port (Type A)"},

        {"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Port (Type C)"},

        {"InputOutputPortsSvojstva":"1 x Headphone Jack"},

        {"InputOutputPortsSvojstva":"1 x Microphone Jack 1 RJ-45 LAN (10/100/1000Mbps)"}

    ],

"Battery":"Removable 6 cells smart Lithium-Ion battery pack 62Wh ",

"Size":"16.48" (w) x 11.37" (d) x 1.08" (h)",

"Weight":"6.83 lbs. including Battery Pack",

"Keyboard":"Multi languages full color illuminated full size keyboard with numeric pad",

"ExtraFeatures":"Metal top case",

"ExtraFeaturesSvojstva":

    [

        {"ExtraFeaturesSvojstva":"Built-in 2.0M FHD Video Camera"},

        {"ExtraFeaturesSvojstva":"FlexiCharger"},

        {"ExtraFeaturesSvojstva":"Intel® Optane™ Technology"},

        {"ExtraFeaturesSvojstva":"Microsoft Cortana with Voice Technology"},

        {"ExtraFeaturesSvojstva":"Windows Mixed Reality Compatible"},

        {"ExtraFeaturesSvojstva":"Intel® PTT (Platform Trust Technology)"},

        {"ExtraFeaturesSvojstva":"Finger print"}

    ]

},

{

"Naziv":"SAGER NP8370",

"Oznaka":"NP8370",

"Display":"17.3" IPS Full HD (1920x1080) Display with G-SYNC Techology, Matte Finished",

"Processor":"7th Generation Intel® Mobile Core i7-7700HQ Kaby Lake Processor",

"Chipset":"Intel® Mobile HM175 Express Chipset",

"StandardHardDrive":"250GB M.2 SSD + 1TB 5400RPM Hard Drive (Upgradeable)",

"GraphicsController":"NVIDIA® GeForce™ GTX 1060 with 6GB GDDR5 Video RAM",

"GraphicsControllerSvojstva":

        [

                {"svojstvo":"Support PCIe x16"},

                {"svojstvo":"Microsoft® DirectX® 12 compatible"},

                {"svojstvo":"Battery Boost 2.0 Ready"},

                {"svojstvo":"NVIDIA® PhysX® Technology"},

                {"svojstvo":"NVIDIA® CUDA™ Technology"},

                {"svojstvo":"Support 4 active displays"}

        ],

"StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400MHz",

"AudioFeatures":"High Definition audio interface",

"AudioFeaturesSvojstva":

        [

                {"AudioFeaturesSvojstva":"S/PDIF Digital output"},

                {"AudioFeaturesSvojstva":"Built-in Array Microphone"},

                {"AudioFeaturesSvojstva":"Built-in two 2W Speakers and a 4W Subwoofer"},

                {"AudioFeaturesSvojstva":"Sound BlasterX® Pro-Gaming 720°"},

                {"AudioFeaturesSvojstva":"Sound Blaster™ Cinema 5"}

        ],

"NetworkCommunication1":"Built-in Gigabit Ethernet LAN",

"NetworkCommunication2":"Intel® Dual Band Wireless-AC + Bluetooth, M.2 interface",

"Slots":"Three M.2 Card Slots",

"SlotsSvojstva":

        [

                {"SlotsSvojstva":"- 1st for WLAN Combo M.2 2230 Card with PCIe and USB interface"},

                {"SlotsSvojstva":"- 2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface"},

                {"SlotsSvojstva":"- 3rd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface."}

        ],

"InputOutputPorts":

        [

                {"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

{"InputOutputPortsSvojstva":"1 x Mini Display 1.3 Port"},

{"InputOutputPortsSvojstva":"1 x Mini Display 1.2 Port"},

{"InputOutputPortsSvojstva":"1 x USB 2.0 Port"},

{"InputOutputPortsSvojstva":"1 x USB 3.0 Port"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Port (Type A)"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Port (Type C)"},

{"InputOutputPortsSvojstva":"1 x Headphone Jack"},

{"InputOutputPortsSvojstva":"1 x Microphone Jack"},

{"InputOutputPortsSvojstva":"1 x RJ-45 LAN (10/100/1000Mbps)"}

],

"Battery":"Removable 6 cells smart Lithium-Ion battery pack 62Wh ",

"Size":"16.48" (w) x 11.30" (d) x 0.98" (h)",

"Weight":"6.83 lbs. including Battery Pack",

"Keyboard":"Multi languages full color illuminated full size keyboard with numeric pad",

"ExtraFeatures":"Al-alloy",

"ExtraFeaturesSvojstva":

[

{"ExtraFeaturesSvojstva":"Built-in 2.0M FHD Video Camera"},

{"ExtraFeaturesSvojstva":"FlexiCharger"},

{"ExtraFeaturesSvojstva":"Intel® Optane™ Technology"},

{"ExtraFeaturesSvojstva":"Microsoft Cortana with Voice Technology"},

{"ExtraFeaturesSvojstva":"Windows Mixed Reality Compatible"},

{"ExtraFeaturesSvojstva":"Intel® PTT (Platform Trust Technology)"},

{"ExtraFeaturesSvojstva":"Finger print"}

]

},

{

"Naziv":"SAGER NP8375",

"Oznaka":"NP8375",

"Display":"17.3" Full HD (1920x1080) 144Hz, Wide View Angle, 72% NTSC Display with G-Sync Technology, Matte
Finished",

"Processor":"8th Generation Intel® Core™ i7-8750H Processor (2.2 GHz), 9MB Smart Cache",

"Chipset":"Intel® HM370 Express Chipset",

"StandardHardDrive":"250GB M.2 SSD + 1TB 5400RPM Hard Drive (Upgradeable)",

"GraphicsController":"NVIDIA® GeForce™ GTX 1070 with 8GB GDDR5 Video RAM",

"GraphicsControllerSvojstva":

[

{"svojstvo":"Support PCIe x16"},

{"svojstvo":"Microsoft® DirectX® 12 compatible"},

{"svojstvo":"Battery Boost 2.0 Ready"},

{"svojstvo":"NVIDIA® PhysX® Technology"},

{"svojstvo":"NVIDIA® CUDA™ Technology"},

{"svojstvo":"GPU over clocking"}

],

"StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 32GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400/2666 MHz",

"AudioFeatures":"High Definition audio interface",

"AudioFeaturesSvojstva":

[

{"AudioFeaturesSvojstva":"S/PDIF Digital output"},

{"AudioFeaturesSvojstva":"Built-in Array Microphone"},

{"AudioFeaturesSvojstva":"Built-in two 2W Speakers and a 4W Subwoofer"},

{"AudioFeaturesSvojstva":"Sound BlasterX® Pro-Gaming 720°"},

{"AudioFeaturesSvojstva":"External 5.1CH audio output supported by 2-in-1 Audio, Microphone and

Headphone jacks"}

],

"NetworkCommunication1":"Built-in Gigabit Ethernet LAN",

"NetworkCommunication2":"Intel® Dual Band Wireless-AC + Bluetooth, M.2 interface",

"Slots":"Three M.2 Card Slots",

"SlotsSvojstva":

[

{"SlotsSvojstva":"- 1st for WLAN Combo M.2 2230 Card with PCIe and USB interface"},

{"SlotsSvojstva":"- 2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface"},

{"SlotsSvojstva":"- 3rd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface."}

],

"InputOutputPorts":

[

{"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

{"InputOutputPortsSvojstva":"2 x Mini Display port 1.3"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 / Thunderbolt™ 3 Port (Type-C)"},

{"InputOutputPortsSvojstva":"2 x USB 3.1 Gen 2 Ports (Type A)"},

{"InputOutputPortsSvojstva":"2 x USB 3.0 Ports (1 x powered USB port, AC/DC)"},

{"InputOutputPortsSvojstva":"1 x 2-in-1 Audio Jack (Line out / S/PDIF Optical output)"},

{"InputOutputPortsSvojstva":"1 x USB 3.1 Gen 2 Port (Type C)"},

{"InputOutputPortsSvojstva":"1 x Headphone Jack"},

{"InputOutputPortsSvojstva":"1 x Microphone Jack"},

{"InputOutputPortsSvojstva":"1 x RJ-45 LAN (10/100/1000Mbps)"}

],

"Battery":"Embedded 4 cells Polymer battery pack 66WH",

"Size":"16.48" (w) x 11.30" (d) x 0.98" (h)",

"Weight":"6.61 lbs. including 66WH Battery Pack",

"Keyboard":"RGB Per Key illuminated full size keyboard with numeric pad",

"ExtraFeatures":"Metal top, Palm rest, and bottom case",

"ExtraFeaturesSvojstva":

[

{"ExtraFeaturesSvojstva":"Built-in 2.0M FHD Video Camera"},

{"ExtraFeaturesSvojstva":"FlexiCharger"},

{"ExtraFeaturesSvojstva":"NVIDIA® G-SYNC™ Technology at dGPU mode"},

{"ExtraFeaturesSvojstva":"Support Microsoft Windows 10 Cortana with Voice"},

{"ExtraFeaturesSvojstva":"Intel® Optane™ Technology"},

{"ExtraFeaturesSvojstva":"Kensington® Lock Area"},

{"ExtraFeaturesSvojstva":"Fingerprint Reader"},

{"ExtraFeaturesSvojstva":"Intel® PTT (Platform Trust Technology)"}

]

},

{

"Naziv":"SAGER NP9175",

"Oznaka":"NP9175",

"Display":"17.3" Full HD IPS Matte Display with G-SYNC Technology (1920 x 1080)",

"Processor":"8th Generation Intel® Core™ i7-8700K Processor (6 Cores, 12MB Smart Cache, 3.70GHz Base / 4.70GHz Max)",

"Chipset":"Intel® Z370 Express Chipset",

"StandardHardDrive":"250GB M.2 SSD + 1TB 5400RPM Hard Drive (Upgradeable)",

"GraphicsController":"NVIDIA® GeForce™ GTX 1070 with 8GB GDDR5 Video RAM",

"GraphicsControllerSvojstva":

[

{"svojstvo":"Support PCIe x16"},

{"svojstvo":"Microsoft® DirectX® 12 compatible"},

{"svojstvo":"Battery Boost 2.0 Ready"},

{"svojstvo":"NVIDIA® PhysX® Technology"},

{"svojstvo":"NVIDIA® CUDA™ Technology"},

                    {"svojstvo":"GPU over clocking"}

            ],

        "StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

        "StandardMemorySvojstvo":"Expandable up to 64GB, depends on 8GB/16GB SODIMM module ",

        "NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400 MHz",

        "AudioFeatures":"High Definition audio interface",

        "AudioFeaturesSvojstva":

                [

                        {"AudioFeaturesSvojstva":"S/PDIF Digital output"},

                        {"AudioFeaturesSvojstva":"Built-in Array Microphone"},

                        {"AudioFeaturesSvojstva":"Built-in two Speakers and Subwoofer"},

                        {"AudioFeaturesSvojstva":"Sound Blaster™ X-FI® MB5"},

                        {"AudioFeaturesSvojstva":"ESS™ SABRE HiFi DAC for high resolution headphone audio"},

                        {"AudioFeaturesSvojstva":"External 7.1CH audio output supported by 2-in-1 Audio, microphone,
Line-in and Line-out jacks"}

                ],

        "NetworkCommunication1":"Killer DoubleShot™ Pro (Integrated Killer Gigabit Ethernet LAN)",

        "NetworkCommunication2":"Killer Dual Band Wireless-AC 1535 + Bluetooth™ 4.0 [M.2 Chip]",

        "Slots":"Three M.2 Card Slots",

        "SlotsSvojstva":

                [

                        {"SlotsSvojstva":"- 1st for WLAN Combo M.2 2230 Card with PCIe and USB interface"},

                        {"SlotsSvojstva":"- 2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface"},

                        {"SlotsSvojstva":"- 3rd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface."}

                ],

        "InputOutputPorts":

                [

                        {"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

                        {"InputOutputPortsSvojstva":"2 x Mini Display port 1.3"},

                        {"InputOutputPortsSvojstva":"1 x Thunderbolt™ 3 / USB 3.1 Combo Port (Type-C)"},

                        {"InputOutputPortsSvojstva":"2 x 1 x USB 3.1 Port (Type-C)"},

                        {"InputOutputPortsSvojstva":"2 x USB 3.0 Ports (1 x powered USB port, AC/DC)"},

                        {"InputOutputPortsSvojstva":"1 x 2-in-1 Audio Jack (Line out / S/PDIF Optical output)"},

                        {"InputOutputPortsSvojstva":"1 x Headphone Jack"},

                        {"InputOutputPortsSvojstva":"1 x Microphone Jack"},

                        {"InputOutputPortsSvojstva":"1 x Line-out Jack"},

                        {"InputOutputPortsSvojstva":"1 x RJ-45 LAN (10/100/1000Mbps)"}

                ],

"Battery":"Removable 8 cells Polymer battery pack (82.00Wh)",

"Size":"16.46" (w) x 11.63" (d) x 1.61" (h)",

"Weight":"8.6 LBs with GPU Card and Battery Pack",

"Keyboard":"Full color illuminated full size keyboard with numeric pad and anti-ghost keys ",

"ExtraFeatures":"Built-in 2.0M FHD Video Camera",

"ExtraFeaturesSvojstva":

    [

        {"ExtraFeaturesSvojstva":"FlexiCharger"},

        {"ExtraFeaturesSvojstva":"Virtual Reality Ready"},

        {"ExtraFeaturesSvojstva":"Finger Print Reader"},

        {"ExtraFeaturesSvojstva":"Kensington® Lock Capability"}

    ]

},

{

"Naziv":"SAGER NP9877",

"Oznaka":"NP9877",

"Display":"17.3" 4K QFHD (3840x2160) Matte Display with G-SYNC Technology",

"Processor":"8th Generation Intel® Core™ i7-8700K Processor (3.70GHz Base / 4.70GHz Max), 6 Cores, 12MB Smart Cache, overclocking support",

"Chipset":"Intel® Z370 Express Chipset",

"StandardHardDrive":"500GB M.2 SSD + 1TB 5400RPM Hard Drive (Upgradeable)",

"GraphicsController":"NVIDIA® GeForce® GTX 1080 GDDR5 (8.0GB) with Optimus™ Technology (Upgradeable) ",

"GraphicsControllerSvojstva":

    [

        {"svojstvo":"Support PCIe x8"},

        {"svojstvo":"Microsoft® DirectX® 12 compatible"},

        {"svojstvo":"MXM3.0 Type B"},

        {"svojstvo":"NVIDIA® PhysX® Technology"},

        {"svojstvo":"NVIDIA® CUDA™ Technology"},

        {"svojstvo":"Support NVIDIA® SLI™ Technology"}

    ],

"StandardMemory":"16GB DDR4 2400MHz Supports Dual Channel DDR4",

"StandardMemorySvojstvo":"Expandable up to 64GB, depends on 8GB/16GB SODIMM module ",

"NumberOfSODIMMS":"Two 260 pins SODIMM sockets, support for DDR4 2400 MHz",

"AudioFeatures":"High Definition audio interface",

"AudioFeaturesSvojstva":

    [

{"AudioFeaturesSvojstva":"S/PDIF Digital output"},

{"AudioFeaturesSvojstva":"Built-in Array Microphone"},

{"AudioFeaturesSvojstva":"Built-in two Speakers and Subwoofer"},

{"AudioFeaturesSvojstva":"Sound Blaster™ X-FI® MB5"},

{"AudioFeaturesSvojstva":"ESS™ SABRE HiFi DAC for high resolution headphone audio"},

{"AudioFeaturesSvojstva":"External 7.1CH audio output supported by 2-in-1 Audio, microphone, Line-in and Line-out jacks"}

],

"NetworkCommunication1":"Killer DoubleShot-X3™ Pro (Integrated Killer E2400 Gigabit Ethernet LAN)",

"NetworkCommunication2":"Integrated Bigfoot® Killer™ N1535 Wireless-AC LAN + Bluetooth™ 4.0 [M.2 Chip]",

"Slots":"Three M.2 Card Slots",

"SlotsSvojstva":

[

{"SlotsSvojstva":"- 1st for WLAN Combo M.2 2230 Card with PCIe and USB interface"},

{"SlotsSvojstva":"- 2nd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface"},

{"SlotsSvojstva":"- 3rd for SSD M.2 2280 Card with SATA / PCIe Gen3x4 interface."}

],

"InputOutputPorts":

[

{"InputOutputPortsSvojstva":"1 x HDMI™ output Port (with HDCP)"},

{"InputOutputPortsSvojstva":"2 x Mini Display port 1.3"},

{"InputOutputPortsSvojstva":"2 x Thunderbolt™ 3 / USB 3.1 combo Ports (Type-C)"},

{"InputOutputPortsSvojstva":"2 x 1 x USB 3.1 Port (Type-C)"},

{"InputOutputPortsSvojstva":"5 x USB 3.0 Ports (1 x Powered USB port, AC/DC)"},

{"InputOutputPortsSvojstva":"1 x 2-in-1 Audio Jack (Line out / S/PDIF Optical output)"},

{"InputOutputPortsSvojstva":"1 x Headphone Jack"},

{"InputOutputPortsSvojstva":"1 x Microphone Jack"},

{"InputOutputPortsSvojstva":"1 x Line-out Jack"},

{"InputOutputPortsSvojstva":"1 x Line-in Jack"},

{"InputOutputPortsSvojstva":"2 x RJ-45 LAN (10/100/1000Mbps)"}

],

"Battery":"Removable 8 cell Smart Lithium-Ion battery pack (89.00Wh)",

"Size":"16.85” (w) x 12.13” (d) x 1.86” (h)",

"Weight":"12.13 LBs with GPU cards and Battery Pack",

"Keyboard":"Full color illuminated full size keyboard with numeric pad and anti-ghost keys",

"ExtraFeatures":"Illuminated Top cover",

"ExtraFeaturesSvojstva":

[

```
                    {"ExtraFeaturesSvojstva":"Built-in 2.0M FHD Video Camera"},

                    {"ExtraFeaturesSvojstva":"FlexiCharger"},

                    {"ExtraFeaturesSvojstva":"Support Windows 10 Cortana with Voice"},

                    {"ExtraFeaturesSvojstva":"Virtual Reality Ready"},

                    {"ExtraFeaturesSvojstva":"Finger Print Reader"},

                    {"ExtraFeaturesSvojstva":"Kensington® Lock Capability"}

                ]

        }

]
```

3.5. XML sitemap.xml - već priloženo u poglavlju 2.2