



Akademija tehničko-umetničkih strukovnih studija Beograd
Odsek Visoka škola za informacione i komunikacione tehnologije
Smer Internet tehnologije

DOKUMENTACIJA

Predmet: Web programiranje 1

Tema: Hammerfall fun page

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UVOD

Korišćene tehnologije:

- 1) Korišćeni jezik: JavaScript;
- 2) Korišćene biblioteke: JavaScript, jQuery, JSON;
- 3) Dodatno: HTML, CSS
- 4) Korišćeno okruženje: Visual Studio

Statički deo sajta je urađen bez gotovih template.

Opis funkcionalnosti

Ulaskom na sajt dinamički se ispisuje Meni. Kako korisnik skroluje sajt, header ostaje fiksiran i prati kretanje korisnika. U donjem desnom uglu se pojavljuje link koji korisniku omogućava povratak na početak.

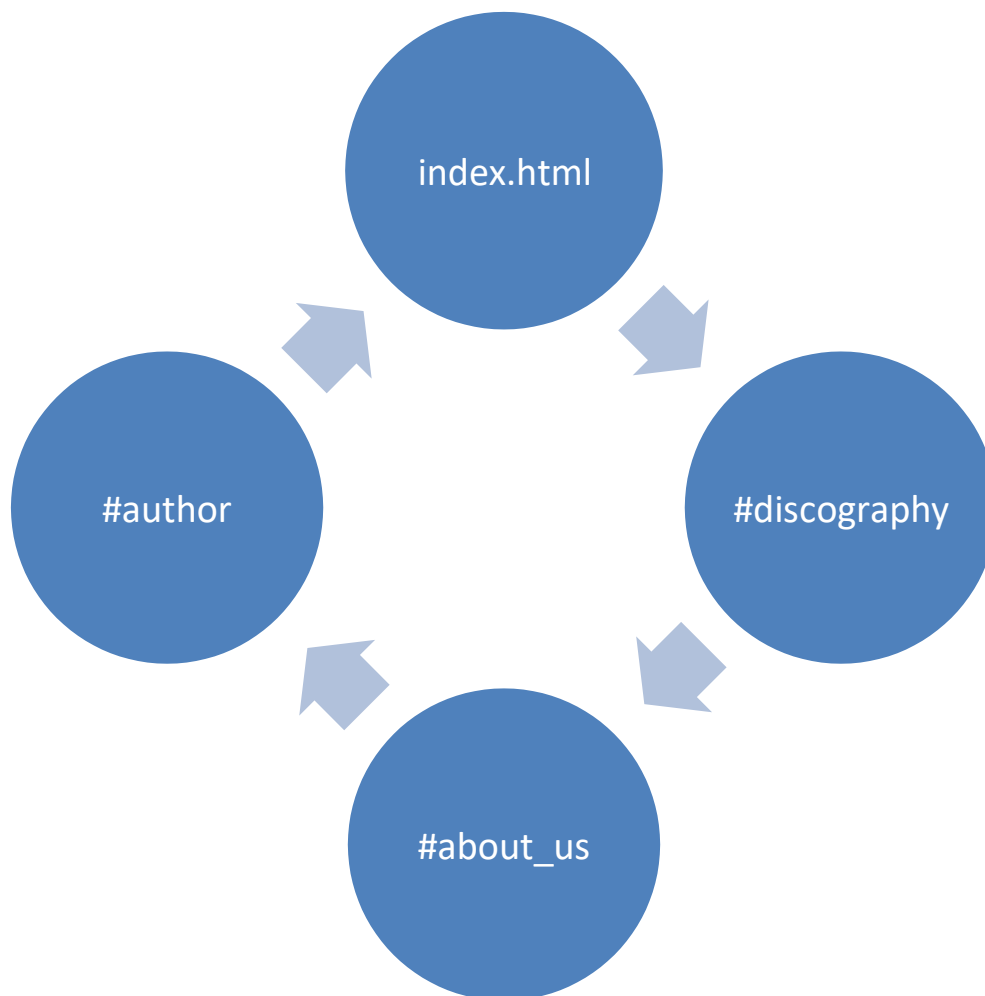
Prelaskom miša preko polja, pojavljuju se slike pomoću jQuery-ja.

Diskografija se takođe dinamički ispisuje. U slučaju prelaska mišem preko albuma, pojavljuje se (pomoću jQueryja) naziv i opis albuma. Klikom na opciju „Read more” korisniku se prikazuju najpoznatiji naslovi ponuđenog albuma.

Pri kraju sajta postoji slajder.

Forma objave komentara je vid regularnih izraza gde se proverava ispravnost unetih podataka. U ovom slučaju: Ime, Prezime, email i komentar. U slučaju neispravno unetih podataka, polje sa pogrešnim podacima menja boju u crvenu.

Organizaciona šema



Sajt je sastavljen od jedne stranice sa nekoliko linkova koji skroluju na različiti deo web stranice.

Podela na divove

class="blog"

id="aboutPhoto"

Welcome fans, to the Kindgom of Hammerfall!
Let the Hammer Fall!

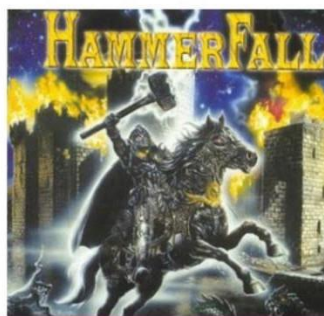
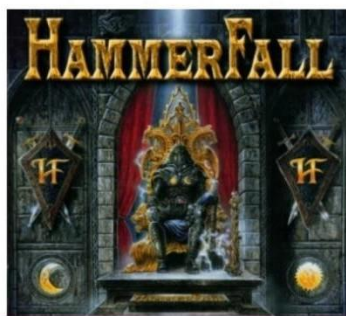
Country of origin:	Sweden
Location:	Gothenburg
Formed year:	1993
Status:	Active
Genre:	Heavy/Power Metal
Lyrical themes:	Fantasy/Medieval battles

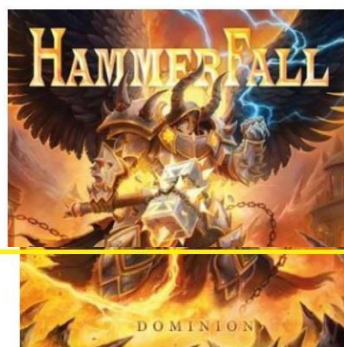
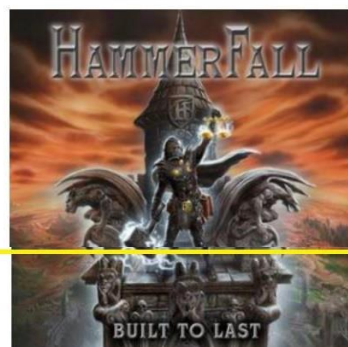
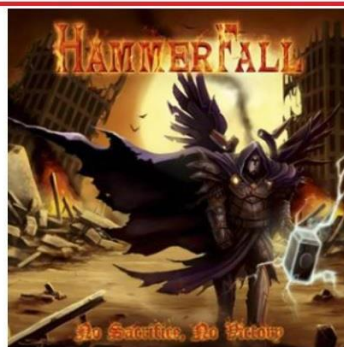
id="aboutPhotoText"

Formed in Göteborg, Sweden, in 1993 by guitarist Oscar Dronjak. Early line-ups included members from In Flames and Dark Tranquillity, most notably Jesper Strömblad, who continued to write songs together with Oscar and singer Joacim Cans despite leaving before the first album was released. *Glory To The Brave* (1997) and *Legacy Of Kings* (1998) cemented the band as the pioneers of modern Eighties heavy metal.

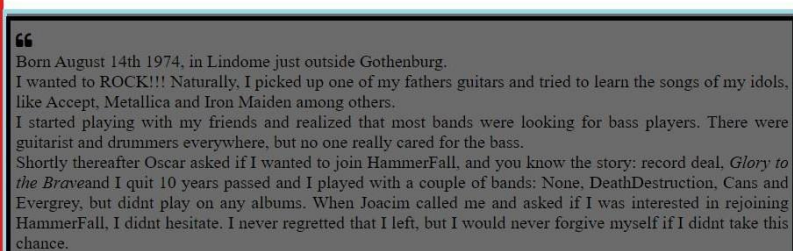
id="discography"

Discography





id="discography"



class="quote"

class="signature"

class="signature-name"

class="tex-left"



id="body"

HOME DISCOGRAPHY ABOUT AUTHOR



id="slider"

HOME DISCOGRAPHY ABOUT AUTHOR

SEND A COMMENT

SEND

id="forms"

id="contact"

AUTHOR

div="body"

5

SEND

id="body"


HOME DISCOGRAPHY ABOUT AUTHOR

id="author"AUTHOR

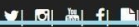
Stefan Marković was born 25.01.1991 AD in Belgrade. Graduated History at Faculty of Philosophy, the University of Belgrade in 2015.AD, finished Master studies in Medieval history in the same Institute, 2016. AD. Currently he studies Internet Technologies at the College of Informational and Communicational Technologies in Belgrade.
As a Web developer, has a knowledge of HTML, CSS, JS.
Also has knowledge about DBA, C#, JSON.

id="textAuthor"

id="imageAuthor"



id="footer"

id="links">

id="copyright">Stefan Markovic 65/16 © 2021 All rights reserved.

KODOVI

HTML

```
File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Full Screen
obrisi.html jquery.js index.html style.css main.js Program.cs
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <!--TITLE-->
5 <title>Hammerfall-fun page</title>
6 <!--META TAGS-->
7 <meta charset="UTF-8" />
8 <meta name="description" content="This is Hammerfall fun page, one of the most famous Swedish power metal bands." />
9 <meta name="keyword" content="music, power metal, metal music, Sweden, albums" />
10 <meta name="author" content="Stefan Markovic 65/16" />
11 <link rel="shortcut icon" href="img/logo.png" />
12 <link rel="stylesheet" href="css/style.css" />
13 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.4.0/css/font-awesome.min.css">
14
15
16 </head>
17 <body>
18 <header>
19 <div id="page">
20 <div id="header">
21 <div id="logo">
22 <a href="index.html"></a>
23 </div>
24 <div id="navigation">
25 <ul></ul>
26 </div>
27 </div>
28 <div id="home-wrapper">
29 <div class="title">
30 <h1>Hammerfall</h1>
31 <p>Legacy of Kings</p>
32 </div>
33 <div class="photo">
34 
35 </div>
36 </div>
37 </div>
```

```
File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Full Screen
obrisi.html jquery.js index.html style.css main.js Program.cs
36      </div>
37      </div>
38
39  </header>
40  <div id="main">
41    <div class="blog">
42      <div id="aboutPhoto"></div>
43    </div>
44    <div class="blog">
45      <div id="aboutPhotoText">
46        <h4>
47          Welcome fans, to the Kindgom of Hammerfall!
48          <br />
49          <i>Let the Hammer Fall!</i>
50        </h4><br />
51        <p>
52          <table>
53            <tr>
54              <td>Country of origin:</td>
55              <td>Sweden</td>
56            </tr>
57            <tr>
58              <td>Location:</td>
59              <td>Gothenburg</td>
60            </tr>
61            <tr>
62              <td>Formed year:</td>
63              <td>1993</td>
64            </tr>
65            <tr>
66              <td>Status:</td>
67              <td>Active</td>
68            </tr>
69            <tr>
70              <td>Genre:</td>
71              <td>Heavy/Power Metal</td>
72            </tr>
```

```

75         <td>Fantasy/Medieval battles</td>
76     </tr>
77 </table>
78 <br />
79 </p>
80 <p>Formed in Göteborg, Sweden, in 1993 by guitarist Oscar Dronjak.
81 Early line-ups included members from In Flames and Dark Tranquillity,
82 most notably Jesper Strömblad, who continued to write songs together with Oscar and singer
83 Joacim Cans despite leaving before the first album was released.
84 Glory To The Brave (1997) and Legacy Of Kings (1998) cemented the band as the pioneers of modern Eighties heavy metal.
85 </div>
86 </div>
87 <div class="cleaner"></div>
88 </div>
89 <div id="discography">
90     <h2>Discography</h2>
91     <div class="cleaner"></div>
92     <div class="col-6" id="show">
93         <p></p>
94     </div>
95 </div><div class="cleaner"></div>
96 <div id="about_us">
97     <div class="text-left">
98
99         <div class="quote">
100             <i class="fa fa-quote-left"></i>
101             <p>

```

```

101         <p>
102             Born August 14th 1974, in Lindome just outside Gothenburg.<br/>
103             I wanted to ROCK!!!
104             Naturally, I picked up one of my fathers guitars and tried to learn the songs of my idols,
105             like Accept, Metallica and Iron Maiden among others.
106             <br/>I started playing with my friends and realized that most bands were looking for bass players.
107         </p>
108     </div>
109
110     <div class="signature">
111         
112     </div>
113
114     <div class="signature-name">
115         <h5>Fredrik Larsson</h5>
116         <p>Bass and backing vocals</p>
117     </div>
118 </div>
119 <div class="profile-photo">
120     
121 </div>
122 <div class="cleaner"></div>
123 </div>
124 <div class="cleaner"></div>
125 <div id="slider"></div>
126 <div id="contact">
127     <div id="forms"></div>
128 </div>
129 <div id="author">
130     <header>
131         <h2>AUTHOR</h2>

```

```

129 <div id="author">
130   <header>
131     <h2>AUTHOR</h2>
132   </header>
133   <div id="imageAuthor">
134     
135   </div>
136   <div id="textAuthor">
137     <p>
138       Stefan Marković was born 25.01.1991 AD in Belgrade.
139       Graduated History at Faculty of Philosophy, the University of Belgrade in 2015.AD,
140       finished Master studies in Medieval history in the same Institute, 2016. AD. Currently he studies Internet
141       Technologies at the College of Informational and Communicational Technologies in Belgrade.
142       <br/>As a Web developer, has a knowledge of HTML, CSS, JS.<br/>Also has knowledge about DBA, C#, JSON.
143     </p>
144     <div class="chart">
145       <div class="name"></div><div class="bar"></div>
146       <span id="value1">60</span>
147     </div>
148   </div>
149   <div class="cleaner"></div>
150 </div>
151 <div id="footer">
152   <span id="links">
153     <ul></ul>
154   </span>
155   <br />
156   <span id="copyright">Stefan Markovic 65/16 &copy; 2021 All rights reserved.</span>
157   <a href="#" id="scrollUp">
158     <i class="fa fa-chevron-up"></i>
159   </a>
160 </div>
161 <script type="text/javascript" src="js/main1.js"></script>
162 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
163 <script type="text/javascript" src="js/jquery.js"></script>
164 </body>
165 </html>

```


CSS

Style.css

```
1  *{
2      margin:0;
3      padding:0;
4      box-sizing: border-box;
5  }
6
7  #page
8  {
9      margin: 0px auto;
10 }
11
12 #header {
13     position:fixed;
14     width: 100%;
15 }
16 #logo img {
17     float:left;
18     height: 5%;
19     width: 5%;
20     margin: 2%;
21     position: relative;
22 }
23
24 .title
25 {
26     position: absolute;
27     text-align:center;
28     margin: 20% 44%;
29     color: white;
30     font-family: Serif;
31 }
```

```
32
33 .title h1
34 {
35     text-transform: uppercase;
36 }
37
38 .photo img
39 {
40     width:100%;
41     height:40%;
42     background-position: center;
43     background-size: cover;
44     margin: 20px;
45 }
46
47
48 ul {
49     list-style: none;
50     margin-top: 15px;
51 }
52
53
54 ul li {
55     display:inline-block;
56     padding:10px;
57     text-transform: uppercase;
58     font-family: Constantia;
59     font-weight: bold;
60     font-size: 16px;
```

```

61     }
62
63     #navigation ul {
64         float: right;
65         position: relative;
66         align-items: center;
67     }
68 }
69
70 #navigation >li{
71     margin-left:20px;
72 }
73
74 #main{
75     width:100%;
76 }
77
78 #discography{
79     width: 100%;
80     margin:50px auto;
81     background:rgb(0,0,0);
82 }
83
84 #discography h2{
85     text-align:center;
86     color:beige;
87     font-weight: bold;
88     margin:2px;
89 }
90

```

```

91 .cleaner{
92     clear:both;
93 }
94 a{
95     text-decoration:none;
96     color: white;
97     transition: 0.3s;
98 }
99
100 #aboutPhoto img{
101     max-width: 35%;
102     margin-left: 40px;
103     margin-top: 20px;
104     /*width: 30%;*/
105     float:left;
106 }
107
108 #aboutPhotoText{
109     float: right;
110     max-width: 40%;
111     margin-top: 20px;
112 }
113
114 #aboutPhotoText p {
115     text-align: justify;
116     margin-right: 40px;
117 }
118

```

```

119  .albums {
120      display:inline-block;
121      float:left;
122      margin: 10px;
123      position: relative;
124  }
125
126  .albums img{
127      transition:1s;
128      padding: 15px;
129      width: 350px;
130  }
131
132  .aboutAlbum{
133      position: absolute;
134      width: 100%;
135      bottom: 0;
136      text-align:center;
137      color: saddlebrown;
138      background: rgb(255,255,255);
139      opacity:65%;
140      width: 90%;
141      margin:5%;
142      font-family:'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
143      font-weight: bold;
144      transition: 0.5s;
145      display:none;
146  }

```

```

146 }
147 .aboutAlbum a{
148     color:darkblue;
149 }
150
151 #about_us {
152     background-color:rgb(21,21,24);
153     width:100%;
154     margin-top:10px;
155 }
156
157 #about_us p{
158     color:rgb(255,255,255);
159 }
160
161 #about_us h5{
162     color:rgb(255,255,255);
163 }
164
165 #about_us i{
166     color:rgb(255,255,255);
167     text-align:left;
168 }
169

```

```

170 .text-left {
171     float: left;
172     width: 50%;
173     padding-right: 15px;
174     padding-left: 40px;
175     margin: 20px;
176     text-align: justify;
177 }
178
179
180 .signature img{
181     width: 35%;
182     margin: 50px 0 20px 0;
183     opacity:0.35;
184 }
185 .profile-photo {
186     max-height: 400px;
187     float: right;
188     padding-right: 15px;
189     margin-top: 20px;
190 }
191
192 .profile-photo img{
193     width:75%;
194     border-radius:80%;
195 }
196
197 #slider img{
198     width:100%;
199 }

```



```

200
201 #contact{
202     background-image:url('masterpiece.jpg');
203 }
204 #forms{
205     padding:60px 40px;
206     background-color:rgb(16,16,18);
207     opacity:0.9;
208 }
209
210 #forms h4 {
211     color:rgb(255,255,255);
212     text-transform: uppercase;
213     font-weight: bold;
214     margin-bottom: 40px;
215     font-family: 'Times New Roman', Times, serif;
216     margin-left: 40px;
217 }
218 .text-tabs{
219
220     margin-bottom:15px;
221 }
222 .validation{
223     border: 1px solid black;
224     font-size:16px;
225     background:transparent;
226     height:50px;
227     border-radius:0;
228     margin-bottom:20px;
229 }

```

```

230
231  □ .validation {
232      color:wheat;
233  }
234
235  □ #send{
236      margin-top:20px;
237      padding:5px;
238      color:wheat;
239      background-color:#ff2b4a;
240      font-size:16px;
241      text-transform:uppercase;
242  }
243
244  □ #author{
245      width:100%;
246      z-index:20;
247      left:0;
248      top:0;
249      background-color:rgb(255,255,255);
250      padding: 20px;
251  }
252
253  □ #author h2{
254      text-align: center;
255  }
256
257

```

```

258 #author #jspic{
259     width:40px;
260     height:30px;
261 }
262
263 #imageAuthor img{
264     max-width:30%;
265     border-radius: 100%;
266     float:right;
267     padding:20px;
268     margin-right:20px;
269 }
270
271 #textAuthor{
272     float: left;
273     margin:30px;
274     padding: 30px;
275     text-align:justify;
276     font-family:'Times New Roman';
277     font-size:16px;
278     width:50%;
279     border:2px solid black;
280 }
281
282 #footer {
283     background:rgb(0,0,0);
284     color: white;
285     width: 100%;
286     padding: 25px;
287 }

```

```

288
289 #links{
290     text-align:center;
291 }
292
293 #links ul li{
294     display: inline-block;
295     color: white;
296 }
297
298 #copyright{
299     display: block;
300     text-align: center;
301 }
302
303 .danger{
304     border:2px solid red;
305 }
306
307 .value{
308     visibility:hidden;
309 }
310
311 .menuHover {
312     color: black;
313     font-size:20px;
314     text-decoration:underline;
315 }
316

```

```

317 .chart {
318     background: gray;
319     justify-content: flex-start;
320     border-radius: 100px;
321     align-items: center;
322     position: relative;
323     padding: 10px 5px;
324     display: flex;
325     height: 40px;
326     width: 500px;
327 }
328
329 .chart span {
330
331     margin-left: 7px;
332     color: black;
333     font-weight: bolder;
334 }
335
336 .name{
337     padding:3px;
338 }
339
340 .bar {
341     animation: load 3s normal forwards;
342     box-shadow: 0 10px 40px -10px #fff;
343     border-radius: 100px;
344     background: black;
345     height: 30px;
346     width: 0;

```

```

347 }
348
349 @keyframes load {
350     0% {
351         width: 0;
352     }
353     100% {
354         width: 60%;
355     }
356 }
357
358 #scrollUp{
359     position: fixed;
360     display: none;
361     background: rgba(0, 0, 0, 0.2);
362     color: #fff;
363     padding: 7px 13px 8px 13px;
364     font-size: 14px;
365     border-radius: 2px;
366     right: 14px;
367     bottom: 14px;
368     transition: background 0.5s;
369 }
370
371 #scrollUp:focus {
372     background: rgba(0, 0, 0, 0.2);
373     color: #fff;
374     outline: none;
375 }
376
377 #scrollUp:hover {
378     background: #2dc997;
379     color: #fff;
380 }
381

```


JavaScript

main.js

Dinamičko ispisivanje menija pomoću for-in petlje. Podaci od meniju se nalaze u 2 niza (niz sa nazivima koji će biti ispisani korisniku i niza linkova na koje će voditi korisnika klikom na taster). Ovaj vid unosa sa dva odvojena niza, u daljim kodovima zameniće JSON.

```
1    //navigation menubar
2
3    var navBar = document.querySelector("#navigation ul");
4
5    var navNames = ["Home", "Discography", "About", "Author"];
6    var navLinks = ["index.html", "#discography", "#about_us", "#author" ];
7
8    for(var index in navNames){
9        navBar.innerHTML += `<li><a href="${navLinks[index]}"> ${navNames[index]} </a>
10    }
11
```

Dinamičko ispisivanje sadržaja

```
12
13    //photo
14    var photo = document.createElement("img");
15    photo.setAttribute("src", "img/hammerfall.jpg");
16    photo.setAttribute("alt", "frontman of band");
17    console.log(photo);
18    var aboutImage = document.getElementById("aboutPhoto");
19    aboutImage.appendChild(photo);
20
21    var text1 = document.getElementById("aboutPhotoText");
22    var infos = document.createElement("span");
23
```

Funkcija za kreiranje fiksnog menija koji se kreće zajedno sa skrolovanjem stranice

```
24  ///  
25  function slide(e) {  
26      //console.info(window.scrollY); //****just to checking does it work  
27      const slideIn = (window.scrollY + window.innerHeight) - photo.height;  
28  }  
29  }  
30  window.addEventListener('scroll', slide);  
31  ///  
32  let someText = document.getElementsByClassName("title");  
33  let nekiBlok = document.getElementById("main");  
34  window.addEventListener(scroll, function () {  
35      let moving = window.scrollY;  
36      someText.style.top = 50 + moving * -0.5 + '%';  
37      nekiBlok.style.top = moving * -0.12 + 'px';  
38  })  
39  }
```

Funkcija za dinamičko ispisivanje Diskografije. Podaci o objektima su uneti u JSON, potom pomoću dve funkcije se kreira galerija svih albuma Hammerfalla. Prva funkcija for-of petljom kreira elemente slike kao i sakriveni deo teksta o kom će detaljnije biti reči prilikom obrade jQuery fajla. Druga funkcija služi da klasičnom petljom objavi spisak naslova iz niza objekata „songs”

```

40 //DISCOGRAPHY
41 var gallery = document.querySelector("#discography");
42
43 var discography = [
44     {
45         "id": 1,
46         "name": "Glory to the Brave",
47         "image": {
48             "src": "Glory",
49             "alt": "Glory to the Brave - album cover"
50         },
51         "songs": ["HammerFall", "Steel Meets Steel", "Stone Cold", "Glory to the Brave", "Ravenlord" ]
52     },
53     {
54         "id": 2,
55         "name": "Legacy of Kings",
56         "image": {
57             "src": "LegacyOfKings",
58             "alt": "Legacy of Kings- album cover"
59         },
60         "songs": ["Heeding the Call", "Legacy of Kings", "Let the Hammer Fall", "Dreamland", "Remember Yesterday"]
61     },
62 ]

```

```

62 {
63   "id": 3,
64   "name": "Renegade",
65   "image": {
66     "src": "Renegade",
67     "alt": "Renegade - album cover"
68   },
69   "songs": ["Templars of Steel", "Renegade", "Living in Victory", "Always Will Be", "The Way of the Warrior", "A Legend Reborn"],
70 },
71 {
72   "id": 4,
73   "name": "Crimson Thunder",
74   "image": {
75     "src": "CrimsonThunder",
76     "alt": "Crimson Thunder - album cover"
77   },
78   "songs": ["Riders of the Storm", "Hearts on Fire", "On the Edge of Honour", "Crimson Thunder", "Dreams Come True", "Angel of Death"],
79 },
80 {
81   "id": 5,
82   "name": "Chapter V -Unbeat, Unbound, Unbroken",
83   "image": {
84     "src": "ChapterV",
85     "alt": "Chapter V - album cover"
86   },
87   "songs": ["Secrets", "Blood Bound", "Never, Ever", "Born to Rule", "The Templar Flame", "Imperial"]
88 },
89 {
90   "id": 6,
91   "name": "Threshold",
92   "image": {
93     "src": "Threshold",
94     "alt": "Threshold - album cover"
95   },
96   "songs": ["Threshold", "The Fire Burns Forever", "Reign of the Hammer", "Titan"]
97 },
98 {
99   "id": 7,
100  "name": "No sacrifice, No victory",
101  "image": {
102    "src": "NoVictory",
103    "alt": "NoVictory - album cover"
104  },
105  "songs": ["Any Means Necessary", "Life Is Now", "Legion", "No Sacrifice, No Victory"]
106 },
107 {
108   "id": 8,
109   "name": "Infected",
110   "image": {
111     "src": "infected",
112     "alt": "Infected - album cover"
113   },
114   "songs": ["Patient Zero", "I Refuse", "Redemption"]
115 },

```



```

144
145
146 function writeAlbums() {
147     for (let index of discography) {
148         gallery.innerHTML += `<div class = "albums">
149             
150             <div class="aboutAlbum">
151                 <h3>${index.name}</h3>
152                 <button>Read more</button>
153                 <div class="moreAbout"><h3>Best songs:</h3><p>${writeSong(index.songs)}</p></div>
154             </div></div>`;
155     }
156 }
157
158 writeAlbums()
159
160 function writeSong(item) {
161     let html = '';
162     for (let i = 0; i < item.length; i++) {
163         html += `<p>${item[i]}</p>`
164     }
165     return html;
166 }
167
168 {
169     "id": 11,
170     "name": "Dominion",
171     "image": {
172         "src": "Dominion",
173         "alt": "Dominion - album cover"
174     },
175     "songs": ["Dominion", "One Against the World", "Scars of a Generation"]
176 }

```

Nakon unetih podatak u JSON, kreće ispisivanje pomoću funkcije.

```

144
145
146 function writeAlbums() {
147     for (let index of discography) {
148         gallery.innerHTML += `<div class = "albums">
149             
150             <div class="aboutAlbum">
151                 <h3>${index.name}</h3>
152                 <button>Read more</button>
153                 <div class="moreAbout"><h3>Best songs:</h3><p>${writeSong(index.songs)}</p></div>
154             </div></div>`;
155     }
156 }
157
158 writeAlbums()

```

Druga funkcija, kao što je već pomenuto ranije, služi da omogući pojedinačan unos svakog člana niza, kako bi izgledalo kao da je u pitanju spisak najpoznatijih pesama svakog albuma.

```
157
158     writeAlbums()
159
160     function writeSong(item) {
161         let html = '';
162         for (let i = 0; i < item.length; i++) {
163             html += `<p>${item[i]}<p>`
164         }
165         return html;
166     }
```



Naredni kod omogućava kreiranje slajdera. Kod nakon određenog vremenskog perioda (na svake 4 sekunde) rotira četiri fotografije.

```
167 //SLIDER
168 setInterval(slider, 4000);
169
170 var counter = 1;
171 function slider() {
172     document.querySelector("#slider img").src = "img/slide" + counter + ".jpg";
173     counter++;
174     if (counter == 5) {
175         counter = 1;
176     }
177 }
178
179 }
```

Dinamičko ispisivanje forme pomoću for-of petlje

```
180 //FORMS
181 function writeForm() {
182     var tabs = ["Name", "Last_Name", "Email"];
183     var forms = document.getElementById("forms");
184     var writing = "<h4>Send a comment</h4>";
185     for (let index of tabs) {
186         writing += `<div class="text-tabs">
187             <input type="text" class="validation" title="Write a message down bellow" id="${index}" placeholder="${index}">
188             <h3 class="value">Value ${index} is not correct</h3>
189         </div>`;
190     }
191     writing += `<div class="text-tabs">
192         <textarea class="form-control" name="comment" rows="5" cols="40" id="comment" placeholder="Write a comment" maxlength="200">
193         </textarea>
194         <div id="counting">0/200</div>
195     </div>
196     <input type="submit" id="send" value="send" />`
197     forms.innerHTML = writing;
198 }
199 writeForm()
```

Brojač karaktera – Nakon što je prethodnim kodom kreirana *text area*, naredni kod pomoću metode *addEventListener* „osluškuje” i sabira broj otkucanih karaktera (za razliku od „*keydown*”, događaj „*keyup*” računa jedino ukoliko je korisnik pustio taster). U ovom slučaju, ograničenje je na 200 karaktera. Ovim kodom, se ispod tekstualnog polja u realnom vremenu dinamički ispisuje koliko je ukupno karaktera uneto.

```
201 //BROJAČ KARAKTERA
202 document.getElementById("comment").addEventListener("keyup", function () {
203     document.querySelector("#counting").textContent = `${document.getElementById("comment").value.length}/200`;
204 });
205
```

Regularni izrazi – klikom na taster „send” proverava se tačnost unetih podataka. U ovom slučaju, to su ime, prezime korisnika, email i poruka u komentaru. Ime se može sastojati samo od slovnih karaktera, počinje sa prvim velikim slovom i sastoji se najviše od 16 karaktera. Prezime, slično imenu, sastoji se jedino od slovnih karaktera, počinje sa prvim velikim slovom i ima najviše 18 karaktera. Email kao forma se svakako razlikuje. Pored slovnih karaktera daje mogućnost korišćenja tačke, neophodan je simbol @ nakon čega sleduju 2 reči razdvojene tačkom (npr. „gmail.com“, „yahoo.com“, itd), druga reč je ograničena na 2 do 4 karaktera. U slučaju teksta u komentaru, neophodno je uneti makar dva karaktera.

```

206 //REGULAR EXPRESSION
207
208 document.querySelector("#send").addEventListener("click", function (e)
209 {
210     e.preventDefault()
211     findErrors()
212 })
213
214 function findErrors() {
215
216     var wrong = [];
217     let firstName, lastName, email, comments;
218     firstName = document.querySelector("#Name");
219     lastName = document.querySelector("#Last_Name");
220     email = document.querySelector("#Email");
221     coment = document.querySelector("#comment");
222     console.log(firstName, lastName);
223
224     let firstNameRegex = /^[A-ZČČŽŠĐ][a-zččžšđ]{2,14}$/;
225     let lastNameRegex = /^[A-ZČČŽŠĐ][a-zččžšđ]{2,18}$/;
226     let emailRegex = /^[\w-\.\.]+\@([\w-]+\.\.)+[\w-]{2,4}$/;
227     let commentRegex = /.{2,200}/;
228     let firstNameDone = false;
229     let lastNameDone = false;
230     let emailDone = false;
231     let commentDone = false;
232
233     function checkAll(itemValue, itemRegex, itemDone) {
234         if (itemRegex.test(itemValue.value)) {
235             itemDone = true;
236             if (itemValue.classList.contains("danger"))
237                 itemValue.classList.remove("danger")
238         }
239     }

```

SEND A COMMENT

Pera

0537

Email

U slučaju neispravnosti nekog od tekstualnih polja, nakon klika tastera „Send” border (granice) neispravnog tekstualnog polja će promeniti boju u crvenu.

```

240     else
241     {
242         itemDone = false;
243         if (!itemValue.classList.contains("danger"))
244             itemValue.classList.add("danger")
245     }
246 }
247
248 checkAll(firstName, firstNameRegex, firstNameDone)
249 checkAll(lastName, lastNameRegex, lastNameDone)
250 checkAll(email, emailRegex, emailDone)
251 checkAll(coment, commentRegex, commentDone)
252 };
253

```


Ispisivanje „*progress bar*”- dinamički se povećava procenat „znanja” JavaScripta na simboličnih 60%.Pomoću klasične for petlje povećava procente

Samoevaluacija: Ovaj je zanimljivi kod ima jednu manu, koja je prilično kasno uočena. On će se aktivirati i uspešno realizovati kod, ali sa otvaranjem stranice. Korisnik će teško videti dinamiku rasta procenta. Kodu nedostaje „*eventListener*” koji će čekati da korisnik uđe polje *diva* gde se kod nalazi kako bi *User experience* bio potpun.

```
254
255 //PERCETAGE growing
256 function increase() {
257     let percentageGrow = 50;
258     let maxPercent = parseInt(document.getElementById("value1").innerHTML, 10);
259
260     for(let i = 0; i <= maxPercent; i++) {
261         setTimeout(function () {
262             document.getElementById("value1").innerHTML = i + "%";
263         }, percentageGrow * i);
264     }
265 }
266 increase();
267
```

Also has knowledge about DBA, C#, JSON.



36%

Dinamičko ispisivanje futera, pomoću JSON-a i for-of petlje.

```
268 //FOOTER
269 var links = document.querySelector("#links ul");
270
271 const linked = [{
272     "id": 1,
273     "link": "https://twitter.com/hammerfall",
274     "icons": "fa fa-twitter"
275 },
276 {
277     "id": 2,
278     "link": "https://www.instagram.com/hammerfall_official/",
279     "icons": "fa fa-instagram"
280 },
281 {
282     "id": 3,
283     "link": "https://www.youtube.com/channel/UC3Yk2TmVkqi_Kmgct5yZaHA",
284     "icons": "fa fa-youtube"
285 },
286 {
287     "id": 4,
288     "link": "https://www.facebook.com/hammerfall",
289     "icons": "fa fa-facebook"
290 },
291 {
292     "id": 5,
293     "link": "documentation.pdf",
294     "icons": "fa fa-file"
295 }
296 ];
297
298 for (let index of linked) {
299     links.innerHTML += `<li><a href="${index.link}"> <i class="${index.icons}"></i></a>|</li>`;
300 }
301
```

jQuery

Funkcija `hover` omogućava da prilikom prelaska kursorom preko fotografije u galeriji („Discography”) polako se pojavlju podaci o albumu. Izlaskom kursora iz polja, opis se ponovo povlači. Važno je navesti da navedeni kod radi zasebno za svaki od polja, tj ulaskom u polje jedne fotografije ne utiče na isti kod u susednim.

```
1 // jQuery
2
3 //HOVER DISCOGRAPHY
4 $(document).ready(function () {
5     $('.aboutAlbum').hide();
6     $(".albums").hover(function () {
7         $(this).children('.aboutAlbum').stop(true, true).slideToggle('slow');
8     });
9 });
10
```



Animacija iskaćućih fotografija koje se pojavljuju nakon ulaska u njihovo polje. Ovaj kod koriste dve fotografije na razliĉitim delovima sajta. Zanimljivo je navesti, pošto je u pitanju isti kod za dve odvojene situacije, primenjen je isti kod samo razliĉitim parametrima. To je primer code reuse.

```
10
11 //FADING IMAGES
12 function fading(image, divs) {
13     $(image).hide();
14     $(divs).mouseenter(function () {
15         $(image).show(2000);
16     });
17 }
18 //CODE RE-USE
19 $(document).ready(fading("#aboutPhoto img", "#main"));
20 $(document).ready(fading(".profile-photo img", "#about_us"));
21
```

Primena sakrivanja i otkrivanja dodatnog teksta u galeriji. Ovaj kod drži sakriven deo teksta do trenutka kad korisnik pristupi i klikne dugme „*Read more*”, ponovnim klikom na isto dugme tekst se ponovo sakriva. Isto kao i kod ranijeg koda, ovo nema uticaja na druge klase, koje imaju sličan kod, već samo na polje objekta čiji taster je korisnik kliknuo.

```
22 //TOGGLE MORE INFOS --Discography
23 $(document).ready(function () {
24     $(".moreAbout").hide();
25     $('button').click(function () {
26         $(this).parent().parent().find(".moreAbout").toggle(400);
27     })
28 });
29
```



Promena boje i veličine slova u meniju. Iako ova animacija može da se izvede bez upotrebe JS-a, tj. kroz CSS, u ovom slučaju jQuery ulaskom u polje linka privremeno aktivira klasu *.menuHover* u CSS-u. Izlaskom iz polja, jQuery ponovo uklanja pomenutu klasu i vraća prvobitni izgled linka

```
30 //MENU HOVER
31 $('#navigation li a').hover(function(){
32     $(this).addClass("menuHover")
33 },
34 function(){
35     $(this).removeClass("menuHover")
36 })
37
```



Klikom na mali taster u donjem desnom uglu ekrana, omogućava povratak korisnika na početak („*Scroll to Top*”). Navedeni taster se ne pojavljuje odmah, već čeka da korisnik skroluje određeni broj redova, nakon čega se pojavljuje (*fade in*) isto tako i nestaje ukoliko se korisnik vrati na rastojanje manje rastojanje od vrha stranice (manje od 50).

```
39 //SCROLL TO TOP
40 $(window).scroll(function(){
41     if($(this).scrollTop()>50){
42         $("#scrollUp").fadeIn(100);
43     }
44     else
45     {
46         $("#scrollUp").fadeOut(100);
47     }
48 });
49 $("#scrollUp").click(function(){
50     $("body, html").animate({scrollTop:0},500);
51 });
52
```

