



Visoka Škola Strukovnih Studija za Informacione i Komunikacione Tehnologije

Web Programiranje 1

Dokumentacija

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1 Tehnologije:

- Editor: VS Code;
- Markup: HTML5;
- Style: CSS3;
- Scripting: Javascript – ECMA Script 6;
- Library: jQuery – v3.3.1, ScrollReveal.js;
- Framework: Bootstrap – v4.1.3;
- Plugin: LoadingOverlay – MessageBox;
- Data Source: Github API, Ajax;
- Deployment: Git Version Control System with Auto-Deploy to Github Pages;

2 Funkcionalnost:

- Single Page App;

2.1.1 Main Search:

- Pri **inicijalnom učitavanju** stranice dobijamo podatke o korisnicima sa **Github API**-ja, sa podrazumevanom vrednosti **“a”**;
- **<https://api.github.com/search/users?q=a>**
- Pretraga se vrši iz banera stranice, koji regularnim **izrazima kontrolise ispravan unos** podataka za pretragu, **kod pogrešnog unosa** se dobija suptilna poruka ispod polja za pretragu, **moгуće su samo slovne vrednosti, space I bspace**;
- Polje je **pri učitavanju** stranice **označeno**;
- Kada se vrednosti unose u polje **na zahtev se čeka 500 milisekundi**, kao dobra praksa pri prikazivanju dinamičkog sadržaja;
- Elementi sa korisnicima pored imena imaju I rezultat poklapanja koji zavisi od aktivnosti korisnika i samog imena;
- Omogućena je **“Load More” paginacija** koja dostavlja **još dodatnih 6 rezultata**;
- **Auto-Slideshow** je omogućen u pozadini glavnog banera, funkcijom koja se izvršava u jednakim intervalima;

2.1.2 Individual User and Repositories:

- Klikom na element sa likom i imenom bilo kog korisnika, šaljemo još jedan zahtev koji nam vraća podatke o individualnom korisniku;
- **<https://api.github.com/users/<username>>**
- Gde **<username>** predstavlja ime profila korisnika;
- Dok dobijamo podatke o korisniku **u pozadini se realizuje** još jedan zahtev koji dobavlja informacije o njegovim **repozitorijumima**;
- **<https://api.github.com/users/<username>/repos>**

- Repozitorijumi zatim bivaju prikazani zajedno sa informacijama o datom korisniku, nad njima je izvršena **paginacija** koja nam dozvoljava da vidimo po 5 repozitorijuma na jednoj stranici, sa evidentiranim brojem stranice, takođe je **paginacija onemogućena** u slučaj **kada nestane sadržaja**;

2.1.3 About Author and Functions:

- Pored pristupa standardnim korisnicima **autoru** pristupamo isključivo iz navigacionog menija, dobijamo rezultate kao i za ostale korisnike;
- **<https://api.github.com/users/BegovicNikola>**
- Korisnički profili se **razlikuju po bojama** u zavisnosti od toga da li korisnik traži posao, **zeleni** za zainteresovane i **crveni** u odsustvu interesovanja;
- Na korisničkoj stranici se na mestu **“Load More”** tastera, sada javlja **“Back to Home”**;
- Funkcije koje obrađuju podatke o individualnim korisnicima se mogu javiti u **nekoliko varijanti**:
- Funkcije koje **prepoznaju nedostatak sadržaja** i ostavljaju poruku na klijentskoj strani **“No information provided...”**;
- Funkcije koje čine **sadržaj čitljivijim**, to uključuje prikaz datuma u određenom formatu, skraćivanje određenih naziva itd.

2.1.4 Animation and Reveal:

- U navigacionom meniju odabirom opcije **“Features”** dobijaju se tehnologije i kratka objašnjenja o procesu izrade aplikacije;
- Na svim celinama su omogućene animacije i efekti kod vraćanja na vrh, 700 milisekundi ostavlja dovoljno prostora da se učita izabrani sadržaj na stranici, efekti su mešavina **jQuery ugrađenih funkcija i ScrollReveal.js biblioteke**;
- **Plugin** omogućava preuzimanje dokumentacije sa sajta i menja default popup prozore browser-a, plugin se zove **MessageBox** a deo je plugin-a LoadingOverlay;
- Uz preuzeti token aplikacija dozvoljava do 5000 zahteva na sat;

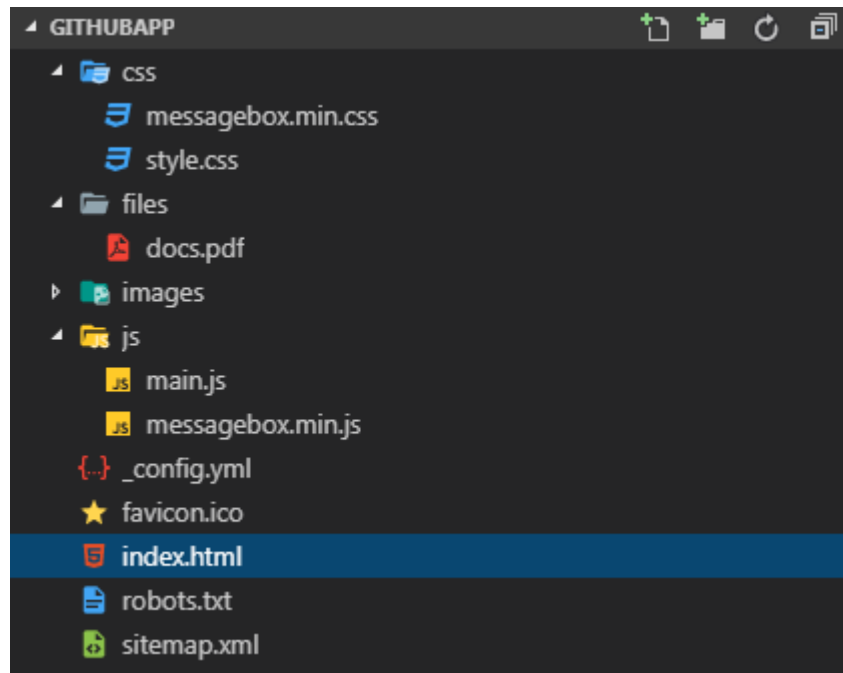
3 Opis Aplikacije:

- Github Recruit je aplikacija za brzi i olakšani pregled developera iz celog sveta. Njihovih dosadašnjih projekata i biografije. 2018 godine je procenjeno da Github ima 31 milion aktivnih korisnika što otvara velike mogućnosti za nalaženje potencijalnih zaposlenih.

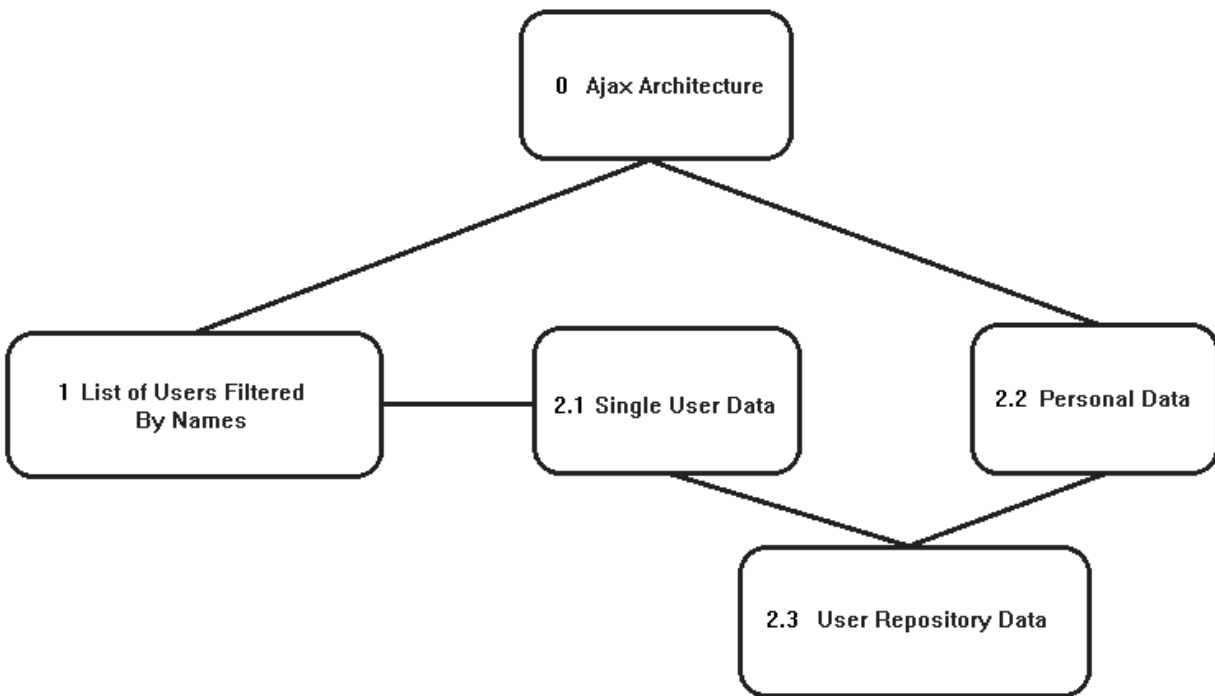
4 Struktura:

- Fiksna Navigacija, Banner sa Pretragom i **2 držača prostora**;
- Prvi koji drži ceo sadržaj vraćen od strane API-ja sa elementima koji su najčešće **Bootstrap Cards**, Grid u slučaju vraćanja više korisnika i profilnu u slučaju individualnog korisnika;
- Drugi koji drži pomoćne tastere za navigaciju i **menja** ih zavisno od trenutnog prikaza **“Load More”** ili **“Back to Home”**;

4.1 Folder Structure:

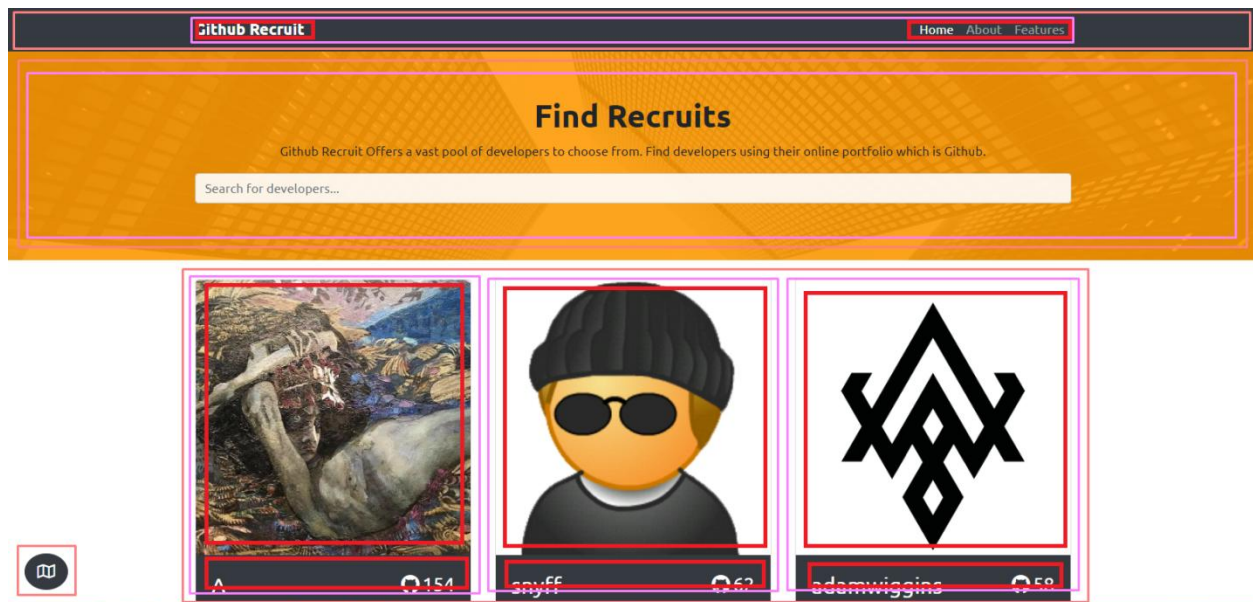


4.2 Ajax Call Execution Chain:

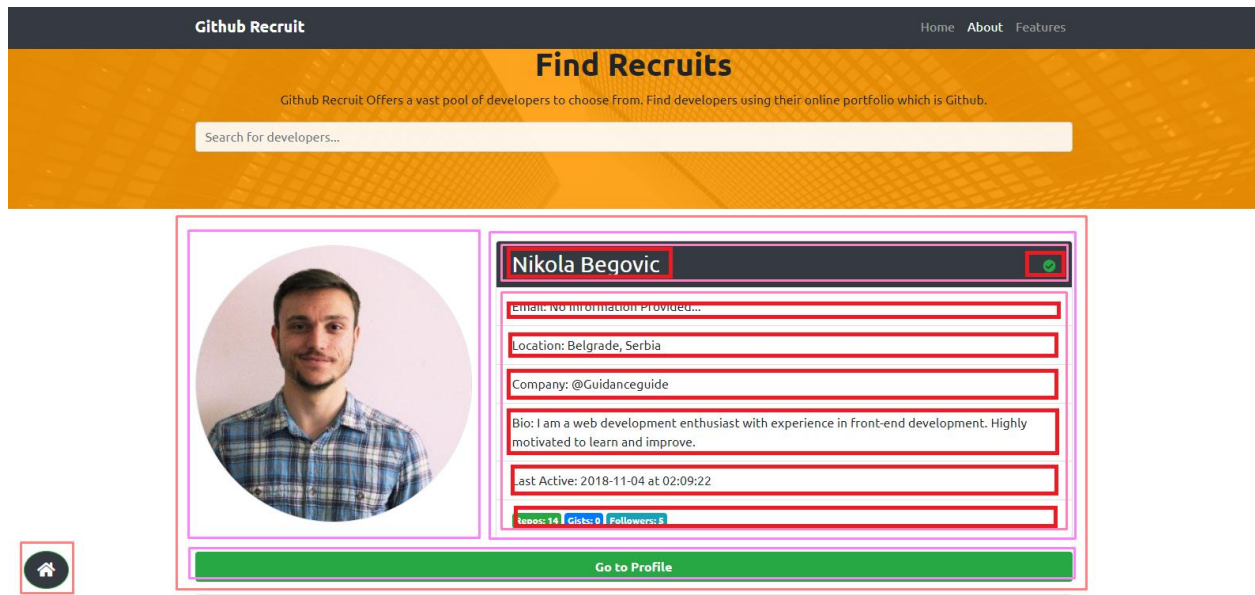


5 Template

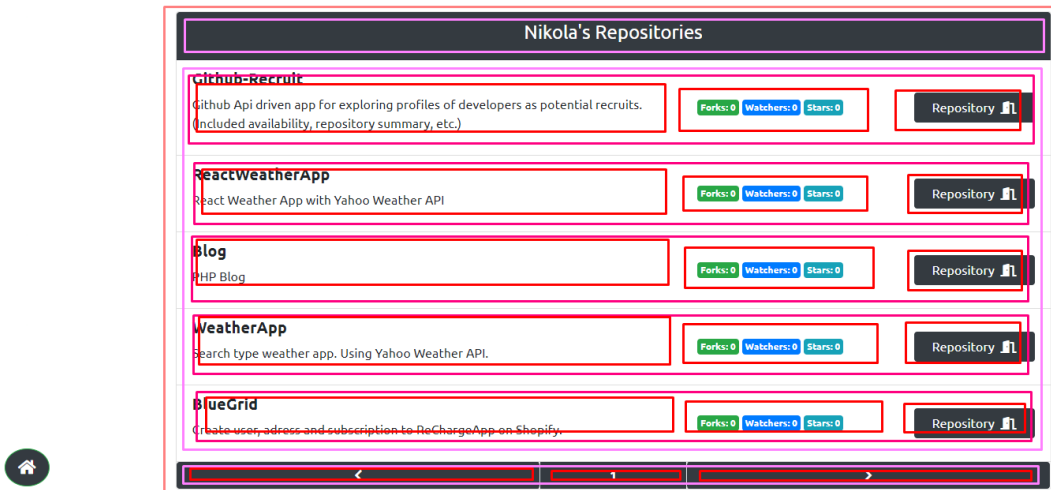
5.1 Main Render:



5.2 About or Single User Render:




Repositories on Single User Render:



5.3 Features Render:


Github Recruit Features

Documentation



ScrollReveal.js


```
Source URL: "https://unpkg.com/scrollreveal";  
Example: ScrollReveal().reveal("#example", { delay: 500, duration: 500 });
```



ScrollReveal is a JavaScript library for easily animating elements as they enter/leave the viewport. It was designed to be robust and flexible, but hopefully you'll be surprised below at how easy it is to pick up.

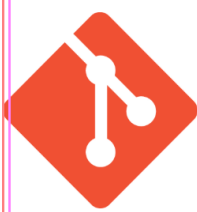
Github API

Getting Data: GET /search/users
Endpoint: <https://api.github.com/search/users?q=user>



GitHub Inc. is a web-based hosting service for version control using Git. It is mostly used for computer code. It offers all of the distributed version control and source code management (SCM) functionality of Git as well as adding its own features. It provides access control and several collaboration features such as bug tracking, feature requests, task management, and wikis for every project.


Using the API:
By default, all requests to <https://api.github.com> receive the v3 version of the REST API.



Git - Version Control

```
Initiate: git init  
Commit: git commit -m "Example Commit"
```

Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. Git is easy to learn and has a tiny footprint with lightning fast performance.



5.4 Features Render:

ECMA Script 6

Constants & Block Scope Variables: `const / let`
Arrow Functions: `() => { ...code }`

ES6

ECMAScript or ES is a trademarked scripting-language specification standardized by Ecma International. It was created to standardize JavaScript, so as to foster multiple independent implementations. JavaScript has remained the best-known implementation of ECMAScript. ECMAScript is commonly used for client-side scripting, and it is increasingly being used for writing applications and services using Node.js.

jQuery - v3.3.1

CDN: `"https://code.jquery.com/jquery-3.3.1.min.js"`
Example: `$('example').click(function{ ...code });`

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.


write less, do more.

Bootstrap - v4.1.3

CDN Js: `"https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"`
CDN Css: `"https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"`

Build responsive, mobile-first projects on the web with the world's most popular front-end component library. **Bootstrap** is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.



6 SEO

6.1 Sitemap:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">
4   You, 2 days ago • Github Page Edit
5   <url>
6     <loc>https://begovicnikola.github.io/Github-Recruit/</loc>
7     <lastmod>2018-12-06</lastmod>
8     <changefreq>daily</changefreq>
9     <priority>1.0</priority>
10
11   </url>
12
13 </urlset>
```

6.2 Robots:

```
1 User-agent:*
2 Disallow:/*?
3
4 Sitemap: https://begovicnikola.github.io/Github-Recruit/sitemap.xml
```

7 HTML Structure

7.1 Header:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <!-- UTF-8 Charset Enabled -->
5   <meta charset="UTF-8">
6   <!-- Initial Viewport -->
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <!-- IE Compatibility -->
9   <meta http-equiv="X-UA-Compatible" content="ie=edge">
10  <!-- Page Title -->
11  <title>Github App</title>
12  <!-- Description -->
13  <meta name="description" content="Github Recruit is a recruiting web app, dedicated to connecting developers in the field of computer science and programming. Create a Github profile and join our network of talented professionals to get discovered by companies."/>
14  <!-- Keywords -->
15  <meta name="keywords" content="Github, recruit, repository, developers, offers"/>
16  <!-- Favicon -->
17  <link rel="icon" href="favicon.ico" type="image/x-icon"/>
18  <!-- Bootstrap Minified Css -->
19  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-Gn5384xqQ1aowXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous"/>
20  <!-- Font Awesome Icons -->
21  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.5.0/css/all.css" integrity="sha384-B4dIYHKNBt88c12p+MXckhzcICo0wtJA0U8YZTY5qE0Id1GSseTk6S+L3BlXeVU" crossorigin="anonymous"/>
22  <!-- Google Fonts Ubuntu -->
23  <link href="https://fonts.googleapis.com/css?family=Ubuntu:400,700" rel="stylesheet">
24  <!-- Plugin Stylesheet -->
25  <link href="css/messagebox.min.css" rel="stylesheet">
26  <!-- Main Stylesheet -->
27  <link rel="stylesheet" href="css/style.css"/>
28 </head>
29 <body>
```

7.2 Navigation:

```
31 <!-- Navigation -->
32 <nav class="navbar fixed-top navbar-expand-lg navbar-dark bg-dark">
33   <div class="container">
34     <!-- Logo -->
35     <span id="logo" class="navbar-brand font-weight-bold">Github Recruit</span>
36     <!-- Mobile Toggle Navigation Button -->
37     <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNavDropdown" aria-controls="navbarNavDropdown"
38       aria-expanded="false" aria-label="Toggle navigation">
39       <span class="navbar-toggler-icon"></span>
40     </button>
41     <!-- Navigation Items Collapsed on Mobile -->
42     <div class="collapse navbar-collapse justify-content-end" id="navbarNavDropdown">
43       <ul class="navbar-nav">
44         <li id="navigate_home" class="nav-item active">
45           <span class="nav-link">Home</span>
46         </li>
47         <li id="navigate_about" class="nav-item">
48           <span class="nav-link">About</span>
49         </li>
50         <li id="navigate_features" class="nav-item">
51           <span class="nav-link">Features</span>
52         </li>
53       </ul>
54     </div>
55   </div>
56 </nav>
```



7.3 Content:

```
72     <!-- Content -->
73     <div class="container">
74         <!-- Data Rendered Content -->
75         <div id="content" class="row">
76             <!-- Content Rendered Here -->
77         </div>
78         <!-- Navigation Help Buttons -->
79         <div id="pagination_holder">
80             <!-- Navigation Buttons Rendered Here -->
81         </div>
82     </div>
```

7.4 Footer:

```
84     <!-- jQuery Minified -->
85     <script src="https://code.jquery.com/jquery-3.3.1.min.js" integrity="sha256-FggCb/KJQLfOu91ta32o/NMZxltwRo8QtmkMRdAu8="
86     crossorigin="anonymous"></script>
87     <!-- Popper Minified Javascript -->
88     <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIykV+2
89     +9J3UJ46jBk0wLaUAdn689aCwoqbBJiSnjAK/l8WvCWPp49" crossorigin="anonymous"></script>
90     <!-- Bootstrap Minified Javascript -->
91     <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK3
92     +MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigin="anonymous"></script>
93     <!-- Plugin JQuery -->
94     <script src="js/messagebox.min.js"></script>
95     <!-- ScrollReveal.js Library -->
96     <script src="https://unpkg.com/scrollreveal"></script>
97     <!-- Main Javascript File -->
98     <script src="js/main.js"></script>
99 </body>
100 </html>
```

8 Custom Styling:

```
1  /* Banner Styling -> Start */
2  body{
3      font-family: 'Ubuntu', sans-serif;
4  }
5  #banner_holder{
6      height: 320px;
7      width: 100%;
8  }
9  #banner_images{
10     background-image: url('../images/banner1.jpg');
11     background-size: cover;
12     background-attachment: fixed;
13     background-position: top;
14     height: 320px;
15     width: 100%;
16 }
17 #banner_overlay{
18     background-color:  rgba(255, 153, 0, 0.88);
19     height: 320px;
20     width: 100%;
21 }
22 #search{
23     background-color:  rgba(255, 255, 255, 0.9);
24 }
25 #warning{
26     color: transparent;
27 }
28 #logo, #navigate_home, #navigate_about, #navigate_features, #next, #back{
29     cursor: pointer;
30 }
31 /* Banner Styling -> End */
```

```
33  /* Content Grid Styling -> Start */
34  .content_item{
35  |   cursor: pointer;
36  | }
37  .content_item img{
38  |   -moz-transition: all .5s ease-in-out;
39  |   -webkit-transition: all .5s ease-in-out;
40  |   transition: all .5s ease-in-out;
41  | }
42  .content_item:hover img{
43  |   -moz-transform: scale(1.1);
44  |   -webkit-transform: scale(1.1);
45  |   transform: scale(1.1);
46  | }
47  .card_img_holder{
48  |   overflow: hidden;
49  | }
50  .card-body span{
51  |   font-size: 1.5em;
52  | }
53  /* Content Grid Styling -> End */
```

```

55  /* Buttons Styling -> Start */
56  #go_home, #load_more{
57      position: fixed;
58      bottom: 20px;
59      left: 20px;
60      z-index: 999;
61  }
62  /* Back To Home Animation */
63  @-webkit-keyframes pulse{
64      0% { transform: scale(1); }
65      25% { transform: scale(1.2); }
66      50% { transform: scale(1); }
67      75% { transform: scale(0.8); }
68      100% { transform: scale(1); }
69  }
70  @keyframes pulse{
71      0% { transform: scale(1); }
72      25% { transform: scale(1.2); }
73      50% { transform: scale(1); }
74      75% { transform: scale(0.8); }
75      100% { transform: scale(1); }
76  }
77  #go_home:hover .fa-home{
78      -webkit-animation: pulse 2s infinite linear;
79      animation: pulse 2s infinite linear;
80  }
81  /* Load More Users Animation */
82  #load_more:hover .fa-arrow-down{
83      -webkit-animation: pulse 2s infinite linear;
84      animation: pulse 2s infinite linear;
85  }
86  /* Buttons Styling -> End */

```


9 Scripting:

(Prve 3 slike su promenjene zbog uslova, jQuery u Vanilla Javascript -> Nalaze se u komentarima da ne kvare uniformnost jQuery ES6)

```
1 | $(document).ready(() => { // window.onload = () => {
2 |
3 |     // Going to Home Page
4 |     const navigate_home = () => {
5 |
6 |         $('html, body').animate({ scrollTop: 0 }, "slow");
7 |         ScrollReveal().clean('#content');
8 |         ScrollReveal().reveal('#content', { delay: 700, duration: 700 });
9 |
10 |         render_users(user);
11 |         $('.nav-item').removeClass('active');
12 |         $('#navigate_home').addClass('active');
13 |         /*
14 |
15 |         document.querySelectorAll('.nav-item').forEach((e) => {
16 |             e.classList.remove('active');
17 |         });
18 |         return_home.classList.add('active');
19 |
20 |         */
21 |     }
22 |     $('#navigate_home').click(navigate_home);
23 |     $('#logo').click(navigate_home);
24 |     /*
25 |
26 |     let return_home = document.getElementById('navigate_home');
27 |     let logo = document.getElementById('logo');
28 |
29 |     return_home.addEventListener('click', navigate_home);
30 |     logo.addEventListener('click', navigate_home);
31 |
32 |     */
33 | }
```

```

34 // Going to About Page
35 /*
36 let return_about = document.getElementById('navigate_about');
37 return_about.addEventListener('click', function(){
38 */
39 $('#navigate_about').click(function(){
40
41     $('html, body').animate({ scrollTop: 0 }, "slow");
42     ScrollReveal().clean('#content');
43     ScrollReveal().reveal('#content', { delay: 700, duration: 700 });
44
45     const my_name = 'BegovicNikola';
46     render_user(my_name);
47     $('.nav-item').removeClass('active');
48     $(this).addClass('active');
49     /*
50     document.querySelectorAll('.nav-item').forEach((e) => {
51         e.classList.remove('active');
52     });
53     return_about.classList.add('active');
54     */
55 });
56 // Going to Features Page
57 /*
58 let return_features = document.getElementById('navigate_about');
59 return_features.addEventListener('click', function(){
60 */
61 $('#navigate_features').click(function(){
62
63     $('html, body').animate({ scrollTop: 0 }, "slow");
64     ScrollReveal().clean('#content');
65     ScrollReveal().reveal('#content', { delay: 700, duration: 700 });
66
67     render_features();
68     $('.nav-item').removeClass('active');
69     $(this).addClass('active');
70     /*
71     document.querySelectorAll('.nav-item').forEach((e) => {
72         e.classList.remove('active');
73     });
74     return_features.classList.add('active');
75     */
76 });
77
78 // Background auto-slideshow
79 // let banner_holder = document.getElementById('banner_images');
80 let banner_holder = $('#banner_images');
81 const banner_images = ['images/banner1.jpg', 'images/banner3.jpg', 'images/banner2.jpg', 'images/banner3.jpg'];
82 let curr = 1;

```

```

53 // Focus on Search Field
54 // document.getElementById('search').focus();
55 $('#search').focus();
56
57 // Users Variables
58 let user = 'a';
59 let page = 1;
60 let per_page = 6;
61
62 // Check for Valid Search Input
63 const srcRegEx = /^[a-z\s\b]+$/i;
64 // let srcInput = document.getElementById('search');
65 let srcInput = $('#search');
66
67 // Ajax on Page Load
68 ScrollReveal().reveal('#content', { delay: 700, duration: 700 });
69 render_users(user);
70
71 // Search for Users Function
72 let timeout = null;
73 (function search_users(){
74     // srcInput.addEventListener('keyup', e => {
75     srcInput.on('keyup', e => {
76
77         // Getting Input Value
78         user = e.target.value;
79         if(user == ''){
80             user = 'a';
81         }
82
83         // Clearing Timeout
84         clearTimeout(timeout);
85
86         // Timeout Lasts 500 Milliseconds After User is Done with Input
87         // let warning = document.getElementById('warning');
88         timeout = setTimeout(() => {
89             if(srcRegEx.test(user)){
90                 render_users(user);
91                 // warning.style.color = 'transparent';
92                 $('#warning')[0].style.color = 'transparent';
93             }else{
94                 // warning.style.color = 'red';
95                 $('#warning')[0].style.color = 'red';
96             }
97         }, 500);
98
99     });
100 })();

```

9.1 Navigating Functions (Original):

```
1  $(document).ready(() => {
2
3      // Going to Home Page
4      function navigate_home(){
5
6          $('html, body').animate({ scrollTop: 0 }, "slow");
7          ScrollReveal().clean('#content');
8          ScrollReveal().reveal('#content', { delay: 700, duration: 700 });
9
10         render_users(user);
11         $('.nav-item').removeClass('active');
12         $('#navigate_home').addClass('active');
13     }
14     $('#navigate_home').click(navigate_home);
15     $('#logo').click(navigate_home);
16
17     // Going to About Page
18     $('#navigate_about').click(function(){
19
20         $('html, body').animate({ scrollTop: 0 }, "slow");
21         ScrollReveal().clean('#content');
22         ScrollReveal().reveal('#content', { delay: 700, duration: 700 });
23
24         const my_name = 'BegovicNikola';
25         render_user(my_name);
26         $('.nav-item').removeClass('active');
27         $(this).addClass('active');
28     });
29     // Going to Features Page
30     $('#navigate_features').click(function(){
31
32         $('html, body').animate({ scrollTop: 0 }, "slow");
33         ScrollReveal().clean('#content');
34         ScrollReveal().reveal('#content', { delay: 700, duration: 700 });
35
36         render_features();
37         $('.nav-item').removeClass('active');
38         $(this).addClass('active');
39     });
```

Auto-Slideshow and Focus on Search (Original):

```
41 // Background auto-slideshow
42 let banner_holder = $('#banner_images');
43 console.log(banner_holder);
44 const banner_images = ['images/banner1.jpg', 'images/banner3.jpg', 'images/banner2.jpg', 'images/banner3.jpg'];
45 let curr = 1;
46 const auto_slide = () => {
47     banner_holder.fadeOut(800, function () {
48         banner_holder.css("background-image", `url(${banner_images[curr++%banner_images.length]})`);
49         banner_holder.fadeIn(1000);
50     });
51 }
52 setInterval(auto_slide, 4000);
53
54 // Focus on Search Field
55 $('#search').focus();
56
```

9.2 Search Function and Regex Testing (Original):

```
57 // Users Variables
58 let user = 'a';
59 let page = 1;
60 let per_page = 6;
61
62 // Check for Valid Search Input
63 const srcRegex = /^[a-z\s\b]+$/i;
64 let srcInput = $('#search');
65
66 // Ajax on Page Load
67 ScrollReveal().reveal('#content', { delay: 700, duration: 700 });
68 render_users(user);
69
70 // Search for Users Function
71 let timeout = null;
72 (function search_users(){
73     srcInput.on('keyup', e => {
74
75         // Getting Input Value
76         user = e.target.value;
77         if(user == ''){
78             user = 'a';
79         }
80
81         // Clearing Timeout
82         clearTimeout(timeout);
83
84         // Timeout Lasts 500 Milliseconds After User is Done with Input
85         timeout = setTimeout(() => {
86             if(srcRegex.test(user)){
87                 render_users(user);
88                 $('#warning')[0].style.color = 'transparent';
89             }else{
90                 $('#warning')[0].style.color = 'red';
91             }
92         }, 500);
93     });
94 })();
95
```

9.3 Users Main Function (Original):

```
97 // Ajax Function for Rendering Multiple Users
98 function render_users(user, page = 1, per_page = 6){
99
100 // Main Ajax Call for Rendering a Grid of Users
101 $.ajax({
102   url: `https://api.github.com/search/users`,
103   data:{
104     client_id: '71e24cf7dcf8b14c8713',
105     client_secret: '4afda53eca11550c8cda6fc149f11b47badd0c56',
106     q: user,
107     page: page,
108     per_page: per_page
109   }
110 }).done(user_data => {
111   // Getting Array of Users Only
112   var user_data = user_data.items;
113   console.log(user_data, page, per_page);
114   var html = '';
115
116   user_data.forEach(user_item => {
117     html +=
118     `<div class="content_item mb-4 col-lg-4 col-md-6" data-username="${user_item.login}">
119       <div class="card">
120         <div class="card_img_holder rounded-top">
121           
122         </div>
123         <div class="card-body rounded-bottom d-flex justify-content-between align-items-center bg-dark text-white">
124           <h3 class="mb-0 font-weight-bolder">${user_item.login}</h3>
125           <div>
126             <span class="fab fa-github"></span>
127             <span>${Math.round(user_item.score)}</span>
128           </div>
129         </div>
130       </div>
131     </div>`;
132   });
133
134 // Adding Result to Result Render Holder
135 $('#content').html(html);
136
137 // Adding Load More Results Button
138 $('#pagination_holder').html(`
139   <button id="load_more" class="btn btn-lg btn-dark border border-white rounded-circle">
140     <span class="far fa-map"></span>
141   </button>`
142 );
143
144 // Loading New Ajax With More Results
145 $('#load_more').click(() => {
146   per_page += 6;
147   render_users(user, page, per_page);
148 });
149
150 // Replacing Render of Users with a Single User on Click
151 var user_name = '';
152 $('.content_item').click(function(e){
153
154   $('html, body').animate({ scrollTop: 0 }, "slow");
155   ScrollReveal().clean('#content');
156   ScrollReveal().reveal('#content', { delay: 700, duration: 700 });
157
158   user_name = e.currentTarget.attributes[1].value;
159   render_user(user_name);
160 });
161
162 });
163
164 }
```

9.4 Individual User Function (Original):

```
166 // Ajax Function for Rendering Single User
167 const render_user = (user_name) => {
168   // Main Ajax Call for Rendering a Single User
169   $.ajax({
170     url: `https://api.github.com/users/${user_name}`,
171     data: {
172       client_id: '71e24cf7dcf8b14c8713',
173       client_secret: '4afda53eca11550c8cda6fc149f11b47badd0c56'
174     }
175   }).done(user_data => {
176
177     // Repository Ajax Call for Repos of the Current User
178     render_repos(user_name, current_page = 1);
179
180     console.log(user_data);
181     var html = '';
182
183     html +=
184     `<div class="user_item col-12">
185       <div class="row align-items-center">
186         <div class="col-md-4">
187           
188         </div>
189         <div class="col-md-8">
190           <div class="card mt-3">
191             <div class="card-header bg-dark text-white d-flex justify-content-between align-items-center">
192               <div class="d-flex align-items-end">
193                 <h3 class="card-title mb-0 text-capitalize">${(user_data.name).toLowerCase()}</h3>
194               </div>
195               <span class="${hireable(user_data.hireable)} pt-1"></span>
196             </div>
197             <div class="list-group list-group-flush">
198               <p class="list-group-item">Email: ${displayAttribute(user_data.email)}</p>
199               <p class="list-group-item">Location: ${displayAttribute(user_data.location)}</p>
200               <p class="list-group-item">Company: ${displayAttribute(user_data.company)}</p>
201               <p class="list-group-item">Bio: ${displayAttribute(user_data.bio)}</p>
202               <p class="list-group-item">Last Active: ${truncateDate(user_data.updated_at)}</p>
203               <div class="list-group-item">
204                 <span class="badge badge-success p-1">Repos: ${user_data.public_repos}</span>
205                 <span class="badge badge-primary p-1">Gists: ${user_data.public_gists}</span>
206                 <span class="badge badge-info p-1">Followers: ${user_data.followers}</span>
207               </div>
208             </div>
209           </div>
210         </div>
211       <div class="col-12">
212         <a href="${user_data.html_url}" target="_blank" class="btn btn-${hireable_viewmore(user_data.hireable)} text-white font-weight-bold w-100 mt-3">Go to Profile</a>
213       </div>
214       <div class="col-12 my-3">
215         <div class="card">
216           <div class="card-header bg-dark text-white rounded-top">
217             <h4 class="text-center text-capitalize">${get_name_only(user_data.name).toLowerCase()}'s Repositories</h4>
218           </div>
219           <div id="repos" class="list-group list-group-flush"></div>
220           <div class="w-100 d-flex">
221             <button id="back" class="col-5 btn btn-dark text-center text-white py-2 fas fa-chevron-left border-right"></button>
222             <span id="current_page" class="col-2 d-flex justify-content-center align-items-center bg-dark text-white font-weight-bold">1</span>
223             <button id="next" class="col-5 btn btn-dark text-center text-white py-2 fas fa-chevron-right border-left"></button>
224           </div>
225         </div>
226       </div>
227     </div>`;
228
229     // Adding Result to Result Render Holder
230     $('#content').html(html);
231
232     // Adding Back To Home Button
233     $('#pagination_holder').html(`
234       <button id="go_home" class="btn btn-lg btn-dark border border-${hireable_viewmore(user_data.hireable)} rounded-circle">
235         <span class="fas fa-home"></span>
236       </button>`
237   );
238   $('#go_home').click(navigate_home);
239
240
```


9.5 Repositories Pagination and Repository Function (Original):

```
241 // Pagination Control
242 var current_page = 1;
243 $('#next').click(() => {
244     current_page++;
245     $('#back').prop("disabled", false).removeClass('btn-secondary').addClass('btn-dark');
246     render_repos(user_name, current_page);
247 });
248 $('#back').click(() => {
249     if(current_page >= 2){
250         --current_page;
251         $('#back').prop("disabled", false).removeClass('btn-secondary').addClass('btn-dark');
252         render_repos(user_name, current_page);
253     }else{
254         $('#back').prop("disabled", true).addClass('btn-secondary').removeClass('btn-dark');
255     }
256 });
257
258 });
259 }
260
261 // Ajax Function to Render User's Repositories
262 const render_repos = (user_name, current_page = 1) => {
263     $.ajax({
264         url: `https://api.github.com/users/${user_name}/repos`,
265         data: {
266             client_id: '71e24cf7dcf8b14c8713',
267             client_secret: '4afda53eca11550c8cda6fc149f11b47badd0c56',
268             sort: 'created: asc',
269             page: current_page,
270             per_page: 5
271         }
272     }).done(repos => {
273         console.log(repos);
274         var html = '';
275
276         // Checking if Next Page is Populated with Data
277         if(repos.length > 0){
278             repos.forEach(repo_item => {
279                 html +=
```

9.6 Repositories Template (Original):

```
280 `<div class="list-group-item">
281   <div class="row">
282     <div class="col-lg-7">
283       <h5 class="font-weight-bold">${repo_item.name}</h5>
284       <p>${displayAttribute(repo_item.description)}</p>
285     </div>
286     <div class="col-lg-3 d-flex align-items-center py-2">
287       <span class="badge badge-success p-1 mr-1">Forks: ${repo_item.forks_count}</span>
288       <span class="badge badge-primary p-1 mr-1">Watchers: ${repo_item.watchers_count}</span>
289       <span class="badge badge-info p-1">Stars: ${repo_item.stargazers_count}</span>
290     </div>
291     <div class="col-lg-2 d-flex align-items-center">
292       <a href="${repo_item.html_url}" target="_blank" class="door btn btn-dark w-100">
293         Repository<span class="ml-2 fas fa-door-open text-white"></span>
294       </a>
295     </div>
296   </div>
297 </div>`;
298   });
299   // Adding Results of Repos to Render Holder
300   $('#repos').html(html);
301   // Enable Next Click
302   $('#next').prop("disabled", false).removeClass('btn-secondary').addClass('btn-dark');
303   // Displaying Current Page of Repos
304   $('#current_page').html(current_page);
305 }else{
306   // Disable Next Click
307   $('#next').prop("disabled", true).addClass('btn-secondary').removeClass('btn-dark');
308 }
309
310 });
311 }
312
313 // Handling Null Values in Returned Object
314 const displayAttribute = att_check => {
315   if(att_check == null){
316     return `No Information Provided...`;
317   }else{
318     return att_check;
319   }
320 }
```

9.7 Helper Functions (Original):

```
313 // Handling Null Values in Returned Object
314 const displayAttribute = att_check => {
315     if(att_check == null){
316         return `No Information Provided...`;
317     }else{
318         return att_check;
319     }
320 }
321
322 // Truncate Date Values in Returned Object
323 const truncateDate = date_trunc => {
324     return date_trunc = date_trunc.replace('T', ' at ').replace('Z', '');
325 }
326
327 // Checking if Developer is Hireable
328 const hireable = hireable => {
329     if(hireable){
330         return 'fas fa-check-circle text-success';
331     }else{
332         return 'fas fa-times-circle text-danger';
333     }
334 }
335
336 // Returning Color Depending on if hireable
337 const hireable_viewmore = hireable => {
338     if(hireable){
339         return 'success';
340     }else{
341         return 'danger';
342     }
343 }
344
345 // Truncating Full Name
346 const get_name_only = full_name => {
347     let res = full_name.split(' ');
348     return res[0];
349 }
```

9.8 Features Page Template and Animation (Original):

```
351 // Function to Render Features
352 const render_features = () => {
353
354     // Populating Content Holder with Features
355     $('#content').html(`
356         <div class="col-12">
357             <h2 id="features_title" class="text-center font-weight-bold">Github Recruit Features</h2>
358             <div class="container">
359                 <button id="docs" class="w-100 btn btn-success font-weight-bold">Documentation</button>
360             </div>
361             <div class="mt-5 w-100 d-flex flex-column justify-content-between">
362                 <!-- ScrollReveal.js Feature -->
363                 <div id="scrollreveal_feature" class="w-100 d-flex flex-wrap justify-content-between align-items-stretch">
364                     <div class="col-lg-4">
365                         
366                     </div>
367                     <div class="col-lg-8">
368                         <div class="card">
369                             <div class="card-header bg-dark text-white rounded-top">
370                                 <h4 class="text-center text-capitalize font-weight-bold mb-0">ScrollReveal.js</h4>
371                             </div>
372                             <div class="list-group list-group-flush">
373                                 <div class="list-group-item">
374                                     <code class="text-secondary">Source URL: "https://unpkg.com/scrollreveal";</code><br/>
375                                     <code class="text-secondary">Example: ScrollReveal().reveal('#example', { delay: 500, duration: 500 });</code>
376                                 </div>
377                                 <div class="list-group-item d-flex flex-wrap">
378                                     
379                                     <div class="col-md-6">
380                                         <p><strong>ScrollReveal</strong> is a JavaScript library for easily animating elements as they enter/leave
381                                             the viewport. It was designed to be robust and flexible, but hopefully you'll be surprised below at how
382                                             easy it is to pick up.</p>
383                                     </div>
384                                 </div>
385                             </div>
386                         </div>
387                     <!-- Github API Feature -->
388                     <div id="github_feature" class="mt-5 w-100 d-flex flex-wrap justify-content-between align-items-center">
389                         <div class="col-12">
390                             <div class="card">
391                                 <div class="card-header bg-dark text-white rounded-top">
392                                     <h4 class="text-center text-capitalize font-weight-bold mb-0">Github API</h4>
393                                 </div>
394                                 <div class="list-group list-group-flush">
395                                     <div class="list-group-item">
396                                         <code class="text-secondary">Getting Data: GET /search/users</code><br/>
397                                         <code class="text-secondary">Endpoint: https://api.github.com/search/users?q=user</code>
398                                     </div>
399                                     <div class="list-group-item d-flex flex-wrap align-items-start">
400                                         
401                                         <div class="col-md-9">
402                                             <p><strong>GitHub Inc.</strong> is a web-based hosting service for version control using Git. It is mostly
403                                                 used for computer code. It offers all of the distributed version control and source code management (SCM)
404                                                 functionality of Git as well as adding its own features. It provides access control and several
405                                                 collaboration features such as bug tracking, feature requests, task management, and wikis for every
406                                                 project.<br/><strong>Using the API:</strong><br/>By default, all requests to <code
407                                                 class="text-secondary">https://api.github.com</code> receive the v3 version of the REST API.</p>
408                                         </div>
409                                     </div>
410                                 </div>
411                             </div>
412                         </div>
413                     <!-- Git Feature -->
414                     <div id="git_feature" class="mt-5 w-100 d-flex flex-wrap justify-content-between align-items-center">
415                         <div class="col-md-3 my-1">
416                             
417                         </div>
418                         <div class="col-md-6">
419                             <div class="card">
420                                 <div class="card-header bg-dark text-white rounded-top">
421                                     <h4 class="text-center text-capitalize font-weight-bold mb-0">Git - Version Control</h4>
422                                 </div>
423                                 <div class="list-group list-group-flush">
424                                     <div class="list-group-item">
```

```

422         <code class="text-secondary">Commit: git commit -m "Example Commit"</code>
423     </div>
424     <div class="list-group-item d-flex">
425         <p>Git is a free and open source distributed version control system designed to handle everything from small to
         very large projects with speed and efficiency. Git is easy to learn and has a tiny footprint with lightning
         fast performance.</p>
426     </div>
427 </div>
428 </div>
429 </div>
430 <div class="col-md-3 my-1">
431     
432 </div>
433 </div>
434 <!-- ECMA Script 6 Feature -->
435 <div id="ecma_feature" class="mt-5 w-100 d-flex flex-wrap justify-content-between align-items-center">
436     <div class="col-12">
437         <div class="card">
438             <div class="card-header bg-dark text-white rounded-top">
439                 <h4 class="text-center text-capitalize font-weight-bold mb-0">ECMA Script 6</h4>
440             </div>
441             <div class="list-group list-group-flush">
442                 <div class="list-group-item">
443                     <code class="text-secondary">Constants & Block Scope Variables: const / let</code><br/>
444                     <code class="text-secondary">Arrow Functions: () => { ...code }</code>
445                 </div>
446                 <div class="list-group-item d-flex flex-wrap align-items-start">
447                     
448                     <div class="col-md-9">
449                         <p><strong>ECMAScript</strong> or ES is a trademarked scripting-language specification standardized by Ecma
                        International. It was created to standardize JavaScript, so as to foster multiple independent
                        implementations. JavaScript has remained the best-known implementation of ECMAScript. ECMAScript is
                        commonly used for client-side scripting, and it is increasingly being used for writing applications and
                        services using Node.js.</p>
450                     </div>
451                 </div>
452             </div>
453         </div>
454     </div>
455 </div>
456 <!-- jQuery Feature -->
457 <div id="jquery_feature" class="mt-5 w-100 d-flex flex-wrap justify-content-between align-items-between">
458     <div class="col-lg-8">
459         <div class="card">
460             <div class="card-header bg-dark text-white rounded-top">
461                 <h4 class="text-center font-weight-bold mb-0">jQuery - v3.3.1</h4>
462             </div>
463             <div class="list-group list-group-flush">
464                 <div class="list-group-item">
465                     <code class="text-secondary">CDN: "https://code.jquery.com/jquery-3.3.1.min.js"</code><br/>
466                     <code class="text-secondary">Example: $('example').click(function{ ...code });</code>
467                 </div>
468                 <div class="list-group-item d-flex flex-wrap">
469                     <p><strong>jQuery</strong> is a fast, small, and feature-rich JavaScript library. It makes things like HTML
                    document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API
                    that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has
                    changed the way that millions of people write JavaScript.</p>
470                 </div>
471             </div>
472         </div>
473     </div>
474     <div class="col-lg-4">
475         
476     </div>
477 </div>
478 <!-- Bootstrap Feature -->
479 <div id="bootstrap_feature" class="my-5 w-100 d-flex flex-wrap justify-content-between align-items-between">
480     <div class="col-lg-8">
481         <div class="card">
482             <div class="card-header bg-dark text-white rounded-top">
483                 <h4 class="text-center font-weight-bold mb-0">Bootstrap - v4.1.3</h4>
484             </div>
485             <div class="list-group list-group-flush">
486                 <div class="list-group-item">
487                     <code class="text-secondary">CDN Js: "https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js";
                     </code><br/>
488                     <code class="text-secondary">CDN Css: "https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css";
                     </code>
489                 </div>
490                 <div class="list-group-item d-flex flex-wrap">

```

```

496         <div class="col-lg-4">
497             
498         </div>
499     </div>
500 </div>
501 </div>
502 `);
503
504 // Adding Back To Home Button
505 $('#pagination_holder').html(`
506     <button id="go_home" class="btn btn-lg btn-dark border border-white rounded-circle">
507         <span class="fas fa-home"></span>
508     </button>`
509 );
510 $('#go_home').click(navigate_home);
511
512 // Plugin Modal for Document Download
513 $('#docs').click(() => {
514     $.MessageBox(`
515         <div class="d-flex flex-column justify-content-center text-center">
516             <p>Click download to get the documentation from <code class="text-danger">docs.pdf</code></p>
517             <a class="btn btn-success" href="files/docs.pdf" download>Download<span class="ml-1 fas fa-cloud-download-alt"></a>
518         </div>
519     `);
520 });
521
522 // Scroll Reveal Effects for Featured Items
523 ScrollReveal().clean('#docs');
524 ScrollReveal().reveal('#docs', { delay: 1400, duration: 700, origin: 'top', distance: '300px' });
525 ScrollReveal().clean('#scrollreveal_feature');
526 ScrollReveal().reveal('#scrollreveal_feature', { delay: 2100, duration: 700, origin: 'top', distance: '300px' });
527 ScrollReveal().clean('#github_feature');
528 ScrollReveal().reveal('#github_feature', { delay: 600, duration: 700, origin: 'top', distance: '300px' });
529 ScrollReveal().clean('#git_feature .col-md-3');
530 ScrollReveal().reveal('#git_feature .col-md-3', { delay: 600, duration: 700, origin: 'top', distance: '300px' });
531 ScrollReveal().clean('#git_feature .col-md-6');
532 ScrollReveal().reveal('#git_feature .col-md-6', { delay: 600, duration: 700, origin: 'top', distance: '100px' });
533 ScrollReveal().clean('#ecma_feature');
534 ScrollReveal().reveal('#ecma_feature', { delay: 600, duration: 700, origin: 'top', distance: '300px' });
535 ScrollReveal().clean('#bootstrap_feature');

```

9.9 Minified Plug-in jQuery:

```

1 1
2 LoadingOverlay - A jQuery Plugin to replace Javascript's window.alert(), window.confirm() and window.prompt() functions
3
4 Author : Gaspare Sganga
5
6 Version : 3.0.0
7
8 License : MIT
9
10 Documentation : https://gasparesganga.com/labs/jquery-message-box/
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9.10 Minified Plug-in CSS:

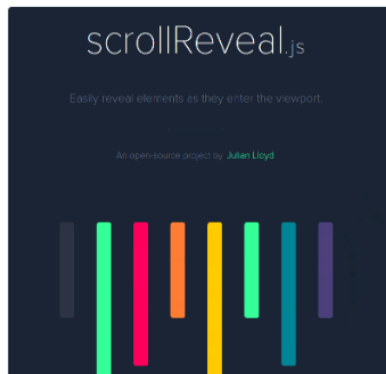
```


1  /*****
2  LoadingOverlay - A JQuery Plugin to replace Javascript's window.alert(), window.confirm() and window.prompt() functions
3  Author      : Gaspare Sganga
4  Version     : 3.0.0
5  License     : MIT
6  Documentation : https://gasparesganga.com/labs/jquery-message-box/
7  *****/
8  .messagebox_overlay[background-color: #rgba(255,255,255,.6)].messagebox{font-family:verdana,arial,helvetica,sans-serif;font-size:10pt;font-style:normal;
font-weight:400;text-align:left;color:#303030;background-color:#f0f0f0;border:1px solid #ccc;border-bottom:1px solid #ccc;box-shadow:0 2px 4px #000;max-height:90%;
max-width:90%;min-width:300px;border-radius:8px}.messagebox_title[background-color:#f5f5f5;border-bottom:1px solid #ccc;padding:5px;
text-align:center;font-weight:700].messagebox_content[padding:20px].messagebox_content_label[width:100%;font-style:italic;margin-top:10px;
margin-bottom:5px].messagebox_content_input[width:100%;margin-top:10px;padding:3px;color:#303030;border:1px solid #000;font-family:inherit;
font-size:inherit;font-style:normal;font-weight:inherit;text-align:left].messagebox_content_input:hover{border-color:#707070}
.messagebox_content_input:focus{border-color:#707070;box-shadow:inset 0 3px #ff5400}.messagebox_content_input_selectplaceholder{color:#909090}
.messagebox_content_checkbox_wrapper[width:100%;margin-top:10px].messagebox_content_checkbox{margin-right:5px;vertical-align:2px}
.messagebox_content_caption[width:100%;margin-top:15px;padding:5px 0].messagebox_content_error[background-color:#f0f0f0;border:1px solid #ccc;
margin-bottom:10px;padding:4px 6px;border-radius:2px}.messagebox_buttons[background-color:#333333;border-top:1px solid #ccc;
border-bottom:1px solid #ccc;padding:10px 20px;text-align:center}.messagebox_buttons_button{font-family:inherit;font-size:inherit;font-weight:700;text-align:center;min-width:75px;margin:0 4px
10px 4px;padding:5px 10px;cursor:pointer;color:#fff;background-color:#333333;border:2px solid #fff;border-radius:2px}.messagebox_buttons_button
{color:#fff;background-color:#444444}.messagebox_buttons_button:active{background-color:#666666;border:1px solid #000;box-shadow:inset 0
0 2px #000}

```


10 Tools and Workflow:

10.1 ScrollReveal.js:



ScrollReveal.Js	
<p>Source URL: "https://unpkg.com/scrollreveal";</p> <p>Example: ScrollReveal().reveal('#example', { delay: 500, duration: 500 });</p>	
	<p>ScrollReveal is a JavaScript library for easily animating elements as they enter/leave the viewport. It was designed to be robust and flexible, but hopefully you'll be surprised below at how easy it is to pick up.</p>

10.2 Github API:

Github API	
<p>Getting Data: GET /search/users</p> <p>Endpoint: https://api.github.com/search/users?q=user</p>	
	<p>GitHub Inc. is a web-based hosting service for version control using Git. It is mostly used for computer code. It offers all of the distributed version control and source code management (SCM) functionality of Git as well as adding its own features. It provides access control and several collaboration features such as bug tracking, feature requests, task management, and wikis for every project.</p> <p>Using the API:</p> <p>By default, all requests to https://api.github.com receive the v3 version of the REST API.</p>


10.3 Git Version Control:



Git - Version Control
<p>Initiate: git init</p> <p>Commit: git commit -m "Example Commit"</p>
<p>Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency. Git is easy to learn and has a tiny footprint with lightning fast performance.</p>



10.4 ECMA Script 6:

ECMA Script 6	
Constants & Block Scope Variables: <code>const / let</code> Arrow Functions: <code>() => { ...code }</code>	
	ECMAScript or ES is a trademarked scripting-language specification standardized by Ecma International. It was created to standardize JavaScript, so as to foster multiple independent implementations. JavaScript has remained the best-known implementation of ECMAScript. ECMAScript is commonly used for client-side scripting, and it is increasingly being used for writing applications and services using Node.js.

10.5 jQuery – v3.3.1:

jQuery - v3.3.1
CDN: <code>"https://code.jquery.com/jquery-3.3.1.min.js";</code> Example: <code>\$('#example').click(function{ ...code });</code>
jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.



10.6 Bootstrap – v4.1.3:

Bootstrap - v4.1.3
CDN Js: <code>"https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js";</code> CDN Css: <code>"https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css";</code>
Build responsive, mobile-first projects on the web with the world's most popular front-end component library. Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

