Visoka škola strukovnih studija za informacione i komunikacione tehnologije

Dokumentacija

http://bike-magazine.dx.am/

Nikola Nedeljković 2/17

Sadržaj

1. UVOD

1.1 Korišćeni programski / markap jezici

- Za izradu ovog sajta korišćene su sledeće tehnologije:

  - Mark-up jezici: HTML 5, XML
  - CSS3
  - Skripting-programski jezici: JavaScript, Objekti JS (sort, filter, prosleđivanje objekata kao parametra funkcije, callback funkcije)
  - JQuery – JavaScript framework
  - JSON, AJAX

- Sajt je napisan u Atom-u

1.2 Opis funkcionalnosti

- **index.html**
  - ✓ Dinamički meni
  - ✓ Dohvatanje korisnika preko LocalStorage-a
  - ✓ Dinamičko ispisivanje personalnih citata
  - ✓ Animacija za odlazak na stranu o svim biciklama
  - ✓ Dinamičko ispisivanje linkova socijalnih mreža

- **bikes.html**
  - ✓ Dinamičko ispisivanje svih bicikli
  - ✓ Sortiranje i filtriranje bicikli
  - ✓ Dohvatanje opcija u zavisnosti od korisnika preko LocalStorage-a
  - ✓ Dinamički meni
  - ✓ Dinamičko ispisivanje linkova socijalnih mreža

- **about.html**
  - ✓ Forma za popunjavanje korisničkih informacija
  - ✓ Dinamički meni
  - ✓ Dinamičko ispisivanje linkova socijalnih mreža
  - ✓ Validacija sadržaja u JavaScript-u
  - ✓ Obrada forme

- o **author.html**
  - ✓ Dinamičko ispisivanje podataka o autoru
  - ✓ Korišćenje JQuery hover efekta
  - ✓ Korišćenje tabela za prikaz podataka kao i zebra stila
  - ✓ Dinamički meni
  - ✓ Dinamičko ispisivanje linkova socijalnih mreža

1.3 Izgled stranica

2. ORGANIZACIJA

2.1 Organizacija sajta
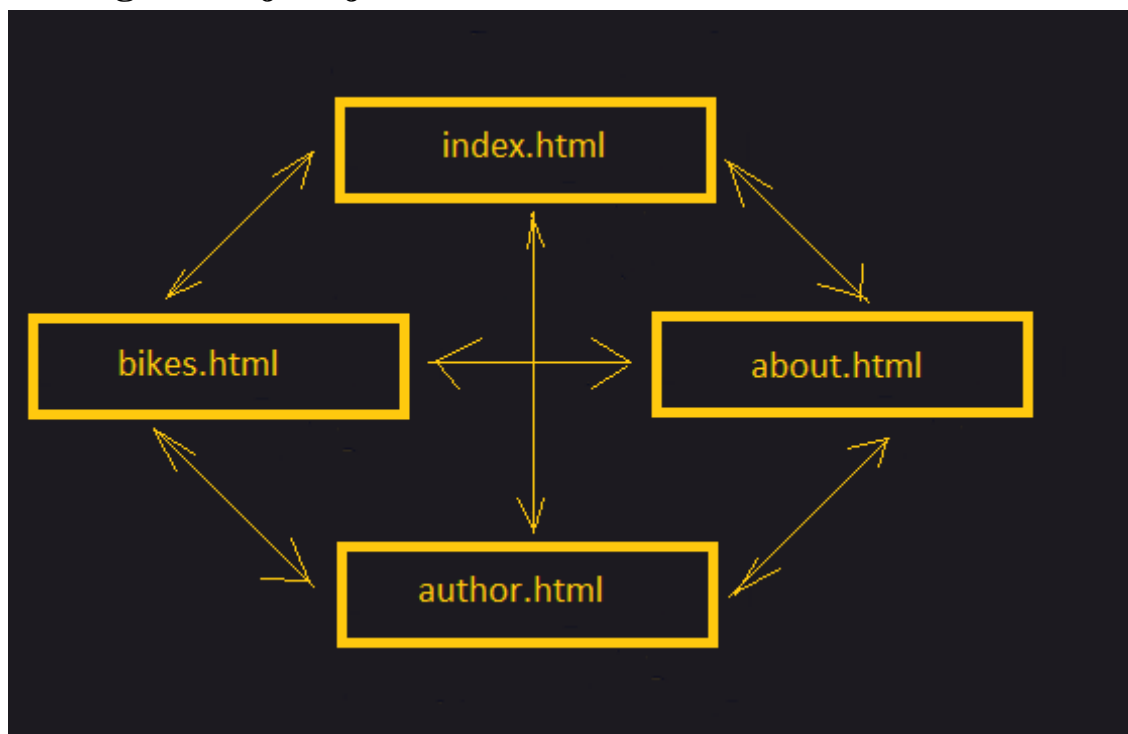
2.2 Sitemap.xml

```xml
<?xml version="1.0"?>
<urlset xlmns="http://www.sitemaps.org/schemas/sitemap/0.9">
<url>
     <loc>http://bike-magazine.dx.am/index.html</loc>
     <lastmod>2018-12-06</lastmod>
     <changefreq>weekly</changefreq>
     <priority>1</priority>
</url>
<url>
     <loc>http://bike-magazine.dx.am/bikes.html</loc>
     <lastmod>2018-12-06</lastmod>
     <changefreq>monthly</changefreq>
     <priority>0.9</priority>
</url>
<url>
     <loc>http://bike-magazine.dx.am/about.html</loc>
     <lastmod>2018-12-06</lastmod>
     <changefreq>monthly</changefreq>
     <priority>0.8</priority>
</url>
<url>
     <loc>http://bike-magazine.dx.am/author.html</loc>
     <lastmod>2018-12-06</lastmod>
     <changefreq>yearly</changefreq>
     <priority>0.7</priority>
</url>
</urlset>
```

2.3 Slike stranica sa funkcionalnostima

index.html

- dinamičko ispisivanje svog sadržaja, personalizovana poruka korisniku, dinamički linkovi

about.html

- logovanje korisnika I čuvanje podataka u LocalStorage-u za kasniju upotrebu na index.html i na bikes.html stranici, provera regularnih izraza I unetog sadržaja

bikes.html

- dinamičko ispisivanje svih bicikli, filtriranje I sortiranje na osnovu forme i na osnovu korisnikovih podataka unetih u about.html

author.html

- - Dinamičko ispisivanje sadržaja u formi tabele, korišćenje JQuery hover efekta

3. KODOVI

3.1 index.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8"/>
    <title>Bike Magazine</title>
    <link href="assets/css/style.css" rel="stylesheet" type="text/css" />
    <link href="assets/css/index.css" rel="stylesheet" type="text/css" />
    <meta name="viewport" content="width=device-width, initial-
scale=1.0"/>
    <meta name="keywords" content="home, bike, bicycle, magazine"/>
    <meta name="description" content="The biggest and most popular bike
magazine of all time!"/>
    <meta name="author" content="Nikola Nedeljkovic"/>
    <meta name="copyright" content="RarOks 1008 Entertainment @ 2019"/>
    <meta name="abstract" content="Bike Magazine."/>
    <meta name="robots" content="index,follow"/>
        <link rel="shortcut icon" href="favicon.ico"/>
      </head>
  <body>
    <div class="head_holder">
        <div class="head">
            <a href="index.html"><img src="assets/images/logo.png"
alt="Logo"/></a>
            <div id="links"></div>
        </div>
        <div class="title_holder"><h1>Welcome to Bike
Magazine</h1></div>
      </div>
      <h2 id="user"></h2>
      <div class="text_data">
          <h3>Here is a personalized quote just for you:</h3>
          <p id="quote"></p>
      </div>
      <div class="biker">
          <img id="bike_rider" src="assets/images/bike_rider.gif"
alt="Bike Rider"/>
          <p id="bike_text"></p>
      </div>
      <div class="footer">
       <div class="copyright">

          <p>&copy; Nikola Nedeljkovic 2019     @ ICT</p>
       </div>
       <div class="contact">
          <div class="info">
              <p>Nikola Nedeljkovic</p>
              <p>nikola.nedeljkovic.2.17&#64;ict.edu.rs</p>
              <p>+381/64-45-71-380</p>
          </div>
          <div class="social_media" id="soc_media"></div>
```
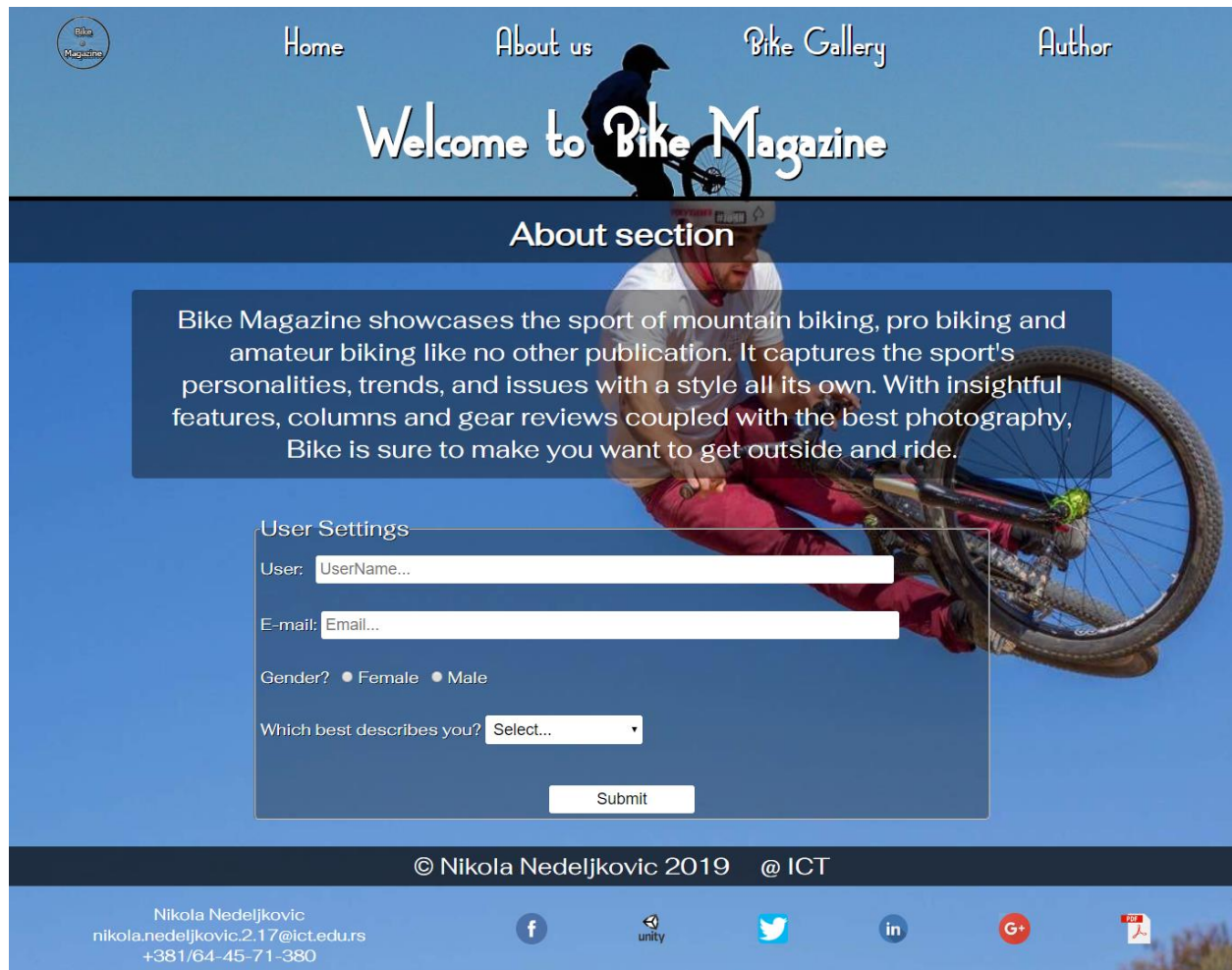
```html
            </div>
        </div>
        <script type="text/javascript" src="assets/js/main.js"></script>
        <script type="text/javascript" src="assets/js/index.js"></script>
        <script type="text/javascript" src="assets/js/jquery.min.js"></script>
    </body>
</html>
```

3.2.   index.css → css samo za index.html

```css
.text_data {
    background-color: rgba(0,0,0,0.3);
    border-radius: 3px;
    margin-top: 30px;
    width: 80%;
    margin-left: 10%;
    padding: 10px;
}
.text_data h3 {
    text-align: center;
    text-shadow: 2px 2px #000000;
    color: #ffffff;
    font-size: 26px;
    margin-bottom: 15px;
}
.text_data p {
    text-align: center;
    color: #ffffff;
    font-size: 22px;
    font-style: italic;
    margin-top: 20px;
}
.biker {
    display: flex;
    align-items: center;
}
.biker #bike_rider {
    width: 80px;
    height: 60px;
    margin-top: 25px;
    margin-left: -100px;
    border-radius: 5px;
}
.biker #bike_text {
    display: none;
    margin-top: 25px;
    margin-left: 20px;
    background-color: rgba(255, 255, 255, 0.5);
    padding: 7px;
    font-size: 18px;
    border-radius: 5px 5px 5px 0;
}
.biker #bike_text.visible {
    display: inline;
}
```

3.3.   index.js → controller for index.html

```javascript
function load_user() {
    var loaded_user = window.localStorage.getItem("user");
    if (loaded_user) {
        document.getElementById("user").innerHTML = "Welcome back: " +
loaded_user;
        return;
    }
    if (!loaded_user) { loaded_user = "user" + Math.floor(Math.random() *
10000); }
    document.getElementById("user").innerHTML = "Welcome: " + loaded_user;
}

function load_quote() {

    $.ajax({
        url: "data/quotes.json",
        method: "GET",
        type: "json",
        success: function (quotes) {
            quotes = JSON.parse(quotes);
            var random = Math.floor(Math.random() * quotes.length);
            document.getElementById("quote").innerHTML = quotes[random];
        },
        error: function (xhr, error, status) {
            var quotes_error = `<h3>Error + ${error} fetching quotes. Status
${status} !</h3>`;
            document.getElementById("quote").innerHTML = quotes_error;
        }
    });
}

function load_driver() {
    window.setTimeout( function () {
        $("#bike_rider").animate({
            marginLeft: "+=200"
        }, 1000 , function() {
            var link;
            $.ajax({
                url: "data/links.json",
                method: "GET",
                type: "json",
                success: function (links) {
                    links = JSON.parse(links);
                    links.forEach(function (l) {
                        if (l.text === "Bike Gallery") { link = l.link; }
                    });
                    document.getElementById("bike_text").className =
"visible";
                    document.getElementById("bike_text").innerHTML = '<a
href="' + link + '">Click to go for a ride on all bikes...</a>';
                },
                error: function (xhr, error, status) {
                    var links_error = `Error + ${error} fetching bike link.
Status ${status} !`;
```

```
                    document.getElementById("bike_text").innerHTML =
links_error;
                }
            });
        });
    }, 2000);
}

window.onload = function () {
    load_links();
    load_social();
    load_user();
    load_quote();
    load_driver();
};
```

3.4 bikes.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8"/>
    <title>Bike Magazine | Bike Gallery</title>
    <link href="assets/css/style.css" rel="stylesheet" type="text/css" />
    <link href="assets/css/bikes.css" rel="stylesheet" type="text/css" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <meta name="keywords" content="gallery, bike, bicycle, magazine"/>
    <meta name="description" content="Gallery o the most popular bicycles in
newer time!"/>
    <meta name="author" content="Nikola Nedeljkovic"/>
    <meta name="copyright" content="RarOks 1008 Entertainment @ 2019"/>
    <meta name="abstract" content="Bike Gallery."/>
    <meta name="robots" content="index,follow"/>
    <link rel="shortcut icon" href="favicon.ico"/>
  </head>
  <body>
    <div class="head_holder">
        <div class="head">
            <a href="index.html"><img src="assets/images/logo.png"
alt="Logo"/></a>
            <div id="links"></div>
        </div>
        <div class="title_holder"><h1>Welcome to Bike Magazine</h1></div>
    </div>
    <h2>Bike Gallery</h2>
    <form class="bike_selection">
        <div>
            <label for="sort_by">Sort by: </label>   
            <select id="sort_by" name="sort_by"></select>
        </div>
        <div>
            <label for="show_gender">Show for gender:
</label>   
            <select id="show_gender" name="show_gender"></select>
        </div>
        <div>
```

```html
            <label for="price_range">Price range:
</label>   
            <p id="min_price">0  </p>
            <input type="range" id="price_range" name="price_range" min="0"
max="500" step="50" value="500"/>
            <p id="max_price">  Max price</p>
        </div>
        <div>
            <input type="checkbox" id="bike_pros" name="bike_pros"/>
            <label for="bike_pros">   Bikes only ridden by
pros?</label>
        </div>
        <div>
            <input type="button" id="submit_bikes" value="Submit"/>
        </div>
    </form>
    <div id="bikes"></div>
    <div class="footer">
        <div class="copyright">
            <p>&copy; Nikola Nedeljkovic 2019     @ ICT</p>
        </div>
        <div class="contact">
            <div class="info">
                <p>Nikola Nedeljkovic</p>
                <p>nikola.nedeljkovic.2.17&#64;ict.edu.rs</p>
                <p>+381/64-45-71-380</p>
            </div>
            <div class="social_media" id="soc_media"></div>
        </div>
    </div>
    <script type="text/javascript" src="assets/js/main.js"></script>
    <script type="text/javascript" src="assets/js/bikes.js"></script>
    <script type="text/javascript" src="assets/js/jquery.min.js"></script>
  </body>
</html>
```

3.5.   bikes.css → css samo za bikes.html

```css
#bikes {
    width: 96%;
    margin-left: 2%;
    display: flex;
    justify-content: space-around;
    flex-wrap: wrap;
}
#bikes .no_bikes {
    color: #ffffff;
    text-shadow: 2px 2px #000000;
    font-size: 34px;
    margin-top: 10px;
    margin-bottom: 20px;
    text-align: center;
    background-color: rgba(0, 0, 0, 0.8);
    padding: 30px;
    border-radius: 10px;
}
#bikes .bike {
    width: 49%;
    background-color: rgba(0, 0, 0, 0.3);
    padding: 10px;
    margin-top: 10px;
}
#bikes .bike h3 {
    color: #ffffff;
    margin-left: 25px;
    margin-bottom: 10px;
    font-size: 20px;
}
#bikes .bike img {
    width: 80%;
    margin-left: 10%;
}
#bikes .bike h4 {
    color: #ffffff;
    margin-left: 15px;
    margin-top: 10px;
    font-weight: 200;
}
#bikes .bike .bike_description {
    color: #ffffff;
    text-align: justify;
    margin-top: 2px;
    text-shadow: 2px 2px #000000;
}
#bikes .bike .driving_team {
    color: #ffffff;
    margin-top: 15px;
    margin-left: 10px;
    text-shadow: 2px 2px #000000;
    font-style: italic;
}
```

```css
#bikes .bike .bike_year {
    color: #ffffff;
    margin-left: 10px;
    text-shadow: 2px 2px #000000;
}
#bikes .bike .bike_price {
    color: #ffffff;
    margin-left: 10px;
    text-shadow: 2px 2px #000000;
    margin-bottom: 5px;
}
.bike_selection {
    font-size: 18px;
    color: #ffffff;
    text-shadow: 1px 1px #000000;
    width: 60%;
    margin-left: 20%;
    margin-top: 40px;
    padding: 5px;
    border-radius: 5px;
    background-color: rgba(0, 0, 0, 0.3);
}
.bike_selection div input, .bike_selection div select {
    font-size: 18px;
}
.bike_selection div {
    margin-top: 10px;
    display: flex;
    align-items: center;
}
.bike_selection div p {
    font-size: 12px;
    display: inline-block;
}
.bike_selection div select {
    padding: 5px;
    border-radius: 3px;
    border: none;
}
.bike_selection div input[type="button"] {
    width: 20%;
    background-color: #ffffff;
    margin-left: 40%;
    margin-top: 15px;
}
@media screen and (max-width: 750px) {
    #bikes .bike {
        width: 98%;
    }
    .bike_selection {
        width: 90%;
        margin-left: 5%;
    }
}
```

3.6 bikes.js → controller for bikes.html

```javascript
function load_bikes(option, gender) {
 $.ajax({
     url: "data/bikes.json",
     method: "GET",
     type: "json",
     success: function (bikes) {
         bikes = JSON.parse(bikes);
         var show = "";
         if (gender === 'male') {
             bikes = bikes.filter(bike => bike.title.indexOf('Lady') === -1);
         }
         if (gender === 'female') {
             bikes = bikes.filter(bike => bike.title.indexOf('Lady') !== -1);
         }
         if (option === 'big_spender') {
             bikes.sort(function(a,b) {
                 if(a.price == b.price)
                     return 0;
                 return a.price > b.price ? -1 : 1;
             });
         }
         if (option === 'budget_buyer') {
             bikes.sort(function(a,b) {
                 if(a.price == b.price)
                     return 0;
                 return a.price > b.price ? 1 : -1;
             });
         }
         if (option === 'passionate_driver') {
             bikes = bikes.filter(bike => bike.driving_teams.length > 0);
         }
         if (option === 'old_timer') {
             bikes.sort(function(a,b) {
                 if(a.year == b.year)
                     return 0;
                 return a.year > b.year ? 1 : -1;
             });
         }
         if (option === 'new_school') {
             bikes.sort(function(a,b) {
                 if(a.year == b.year)
                     return 0;
                 return a.year > b.year ? -1 : 1;
             });
         }
         bikes.forEach(function (b) {
             show += `<div class="bike"><h3>${b.title}</h3><img
src="${b.image}" alt="${b.alt}"/><h4>Bike description:</h4><p
class="bike_description">${b.description}</p>`;
             if (b.driving_teams.length > 0) {
                 show += `<p class="driving_team">Driving Professionals:
`;
                 b.driving_teams.forEach(function (dt) {
```

```javascript
                    if (dt === b.driving_teams[b.driving_teams.length -
1]) {
                            show += `${dt}`;
                            return;
                        }
                        show += `${dt}, `;
                    });
                    show += `</p>`;
                }
                show += `<p class="bike_year">Release year: ${b.year}</p><p
class="bike_price">Price: ${b.price}&#163;</p></div>`;
            });
            if (show) {
                document.getElementById("bikes").innerHTML = show;
                return;
            }
            document.getElementById("bikes").innerHTML = `<h3
class="no_bikes">There are no bikes with these fields...</h3>`;
        },
        error: function (xhr, error, status) {
            var bikes_error = `<h3>Error + ${error} fetching bikes. Status
${status} !</h3>`;
            document.getElementById("bikes").innerHTML = bikes_error;
        }
    });
}

function fill_form(data) {
    var select = document.getElementById("bike_selection"),
        max = 0;
    $.ajax({
        url: "data/bikes.json",
        method: "GET",
        type: "json",
        success: function (bikes) {
            bikes = JSON.parse(bikes);
            bikes.forEach(function (b) {
                if (b.price > max) { max = b.price; }
            });
            document.getElementById("price_range").max = max;
            document.getElementById("price_range").value = max;
            document.getElementById("max_price").innerHTML = max;
        },
        error: function (xhr, error, status) {
            var bikes_error = `Error + ${error} fetching bike prices. Status
${status} !`;
            document.getElementById("max_price").innerHTML = bikes_error;
        }
    });
    $.ajax({
        url: "data/form_data.json",
        method: "GET",
        type: "json",
        success: function (f_data) {
            f_data = JSON.parse(f_data);
            var sb_data = '',
                g_data = '';
```

```javascript
            f_data.sort_by.forEach(function (sb) {
                sb_data += `<option id="${sb.type}"
value="${sb.type}">${sb.value}</option>`;
            });
            document.getElementById("sort_by").innerHTML = sb_data;
            f_data.gender.forEach(function (g) {
                g_data += `<option id="${g.type}"
value="${g.type}">${g.value}</option>`;
            });
            document.getElementById("show_gender").innerHTML = g_data;
            for (var i = 0; i <
document.getElementById("show_gender").options.length; i++) {
                if (data.gender ===
document.getElementById("show_gender").options[i].value) {
                    document.getElementById("show_gender").selectedIndex = i;
                }
            }
            if (data.option === 'passionate_driver') {
                document.getElementById("bike_pros").checked = true;
            }
            if (data.option === 'big_spender') {
                for (var i = 0; i <
document.getElementById("sort_by").options.length; i++) {
                    if (document.getElementById("sort_by").options[i].value
=== 'price_high') {
                        document.getElementById("sort_by").selectedIndex = i;
                    }
                }
            }
            if (data.option === 'budget_buyer') {
                for (var i = 0; i <
document.getElementById("sort_by").options.length; i++) {
                    if (document.getElementById("sort_by").options[i].value
=== 'price_low') {
                        document.getElementById("sort_by").selectedIndex = i;
                    }
                }
            }
            if (data.option === 'old_timer') {
                for (var i = 0; i <
document.getElementById("sort_by").options.length; i++) {
                    if (document.getElementById("sort_by").options[i].value
=== 'year_early') {
                        document.getElementById("sort_by").selectedIndex = i;
                    }
                }
            }
            if (data.option === 'new_school') {
                for (var i = 0; i <
document.getElementById("sort_by").options.length; i++) {
                    if (document.getElementById("sort_by").options[i].value
=== 'year_newest') {
                        document.getElementById("sort_by").selectedIndex = i;
                    }
                }
            }
        },
```

```javascript
        error: function (xhr, error, status) {
            var form_data_error = `<h3>Error + ${error} fetching form data.
Status ${status} !</h3>`;
            document.getElementsByClassName("bike_selection")[0].innerHTML =
form_data_error;
        }
    });
}

function bikes_submited(data) {
    $.ajax({
        url: "data/bikes.json",
        method: "GET",
        type: "json",
        success: function (bikes) {
            bikes = JSON.parse(bikes);
            var show = '';
            if (data.show_gender === 'male') {
                bikes = bikes.filter(bike => bike.title.indexOf('Lady') === -
1);
            }
            if (data.show_gender === 'female') {
                bikes = bikes.filter(bike => bike.title.indexOf('Lady') !== -
1);
            }
            bikes = bikes.filter(bike => bike.price <= data.price_range);
            if (data.bike_pros) {
                bikes = bikes.filter(bike => bike.driving_teams.length > 0);
            }
            if (data.sort_by === 'name_a-z') {
                bikes.sort(function (a,b) {
                    if (a.title === b.title)
                        return 0;
                    return a.title > b.title ? 1 : -1;
                });
            }
            if (data.sort_by === 'name_z-a') {
                bikes.sort(function (a,b) {
                    if (a.title === b.title)
                        return 0;
                    return a.title > b.title ? -1 : 1;
                });
            }
            if (data.sort_by === 'price_low') {
                bikes.sort(function (a,b) {
                    if (a.price === b.price)
                        return 0;
                    return a.price > b.price ? 1 : -1;
                });
            }
            if (data.sort_by === 'price_high') {
                bikes.sort(function (a,b) {
                    if (a.price === b.price)
                        return 0;
                    return a.price > b.price ? -1 : 1;
                });
            }
```

```javascript
        if (data.sort_by === 'year_early') {
            bikes.sort(function (a,b) {
                if (a.year === b.year)
                    return 0;
                return a.year > b.year ? 1 : -1;
            });
        }
        if (data.sort_by === 'year_newest') {
            bikes.sort(function (a,b) {
                if (a.year === b.year)
                    return 0;
                return a.year > b.year ? -1 : 1;
            });
        }
        bikes.forEach(function (b) {
            show += `<div class="bike"><h3>${b.title}</h3><img
src="${b.image}" alt="${b.alt}"/><h4>Bike description:</h4><p
class="bike_description">${b.description}</p>`;
            if (b.driving_teams.length > 0) {
                show += `<p class="driving_team">Driving Professionals:
`;
                b.driving_teams.forEach(function (dt) {
                    if (dt === b.driving_teams[b.driving_teams.length -
1]) {
                        show += `${dt}`;
                        return;
                    }
                    show += `${dt}, `;
                });
                show += `</p>`;
            }
            show += `<p class="bike_year">Release year: ${b.year}</p><p
class="bike_price">Price: ${b.price}&#163;</p></div>`;
        });
        if (show) {
            document.getElementById("bikes").innerHTML = show;
            return;
        }
        document.getElementById("bikes").innerHTML = `<h3
class="no_bikes">There are no bikes with these fields...</h3>`;
    },
    error: function (xhr, error, status) {
        var bikes_error = `<h3>Error + ${error} fetching bikes. Status
${status} !</h3>`;
        document.getElementById("bikes").innerHTML = bikes_error;
    }
    });
}

window.onload = function () {
    var option = window.localStorage.getItem("option"),
        gender = window.localStorage.getItem("gender");
    load_links();
    load_social();
    fill_form({option: option, gender: gender});
    load_bikes(option, gender);
```

```
    document.getElementById("price_range").addEventListener("change",
function() {
        document.getElementById("max_price").innerHTML =
document.getElementById("price_range").value;
    });
    document.getElementById("submit_bikes").addEventListener("click",
function() {
        var sort_by =
document.getElementById("sort_by").options[document.getElementById("sort_by")
.selectedIndex].value,
            show_gender =
document.getElementById("show_gender").options[document.getElementById("show_
gender").selectedIndex].value,
            price_range = document.getElementById("price_range").value,
            bike_pros = document.getElementById("bike_pros").checked;
        bikes_submited({sort_by: sort_by, show_gender: show_gender,
price_range: price_range, bike_pros: bike_pros});
    });
};
```

3.7 about.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8"/>
    <title>Bike Magazine | About</title>
    <link href="assets/css/style.css" rel="stylesheet" type="text/css" />
    <link href="assets/css/about.css" rel="stylesheet" type="text/css" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <meta name="keywords" content="about, bike, bicycle, magazine"/>
    <meta name="description" content="This is where you can find everything
about us and create a user!"/>
    <meta name="author" content="Nikola Nedeljkovic"/>
    <meta name="copyright" content="RarOks 1008 Entertainment @ 2019"/>
    <meta name="abstract" content="About Bike Magazine."/>
    <meta name="robots" content="index,follow"/>
    <link rel="shortcut icon" href="favicon.ico"/>
  </head>
  <body>
    <div class="head_holder">
        <div class="head">
            <a href="index.html"><img src="assets/images/logo.png"
alt="Logo"/></a>
            <div id="links"></div>
        </div>
        <div class="title_holder"><h1>Welcome to Bike Magazine</h1></div>
    </div>
    <h2>About section</h2>
    <p class="about_text">Bike Magazine showcases the sport of mountain
biking, pro biking and amateur biking like no other publication. It captures
the sport's personalities, trends, and issues with a style all its own. With
insightful features, columns and gear reviews coupled with the best
photography, Bike is sure to make you want to get outside and ride.</p>
    <form class="user_interface">
```

```html
            <fieldset>
                <legend>User Settings</legend>
                <div>
                    <label for="user_name">User:   </label>
                    <input type="text" name="user_name" id="user_name"
placeholder="UserName..."/>
                    <p id="user_name_error"></p>
                </div>
                <div>
                    <label for="email">E-mail: </label>
                    <input type="email" name="email" id="email"
placeholder="Email..."/>
                    <p id="email_error"></p>
                </div>
                <div>
                    <label for="gender">Gender? </label> 
                    <input type="radio" name="gender" id="female"
value="female"/> Female  
                    <input type="radio" name="gender" id="male" value="male"/>
Male
                    <p id="gender_error"></p>
                </div>
                <div>
                    <label for="user_type">Which best describes you? </label>
                    <select id="user_type" name="user_type"></select>
                    <p id="user_type_error"></p>
                </div>
                <div>
                    <input type="button" id="submit_user_settings"
value="Submit"/>
                </div>
            </fieldset>
        </form>
        <div class="footer">
            <div class="copyright">
                <p>&copy; Nikola Nedeljkovic 2019     @ ICT</p>
            </div>
            <div class="contact">
                <div class="info">
                    <p>Nikola Nedeljkovic</p>
                    <p>nikola.nedeljkovic.2.17&#64;ict.edu.rs</p>
                    <p>+381/64-45-71-380</p>
                </div>
                <div class="social_media" id="soc_media"></div>
            </div>
        </div>
        <script type="text/javascript" src="assets/js/main.js"></script>
        <script type="text/javascript" src="assets/js/about.js"></script>
        <script type="text/javascript" src="assets/js/jquery.min.js"></script>
    </body>
</html>
```

3.8.   about.css → css samo za about.html

```css
.about_text {
    width: 80%;
    color: #ffffff;
    margin-left: 10%;
    font-size: 28px;
    margin-top: 30px;
    text-align: center;
    background-color: rgba(0, 0, 0, 0.4);
    padding: 15px;
    border-radius: 5px;
}
.user_interface {
    font-size: 18px;
    color: #ffffff;
    text-shadow: 1px 1px #000000;
    width: 60%;
    margin-left: 20%;
    margin-top: 40px;
}
.user_interface div input, .user_interface div select {
    font-size: 18px;
}
.user_interface fieldset div {
    margin-top: 10px;
}
.user_interface fieldset {
    padding: 5px;
    border-radius: 5px;
    background-color: rgba(0, 0, 0, 0.3);
}
.user_interface fieldset legend {
    font-size: 24px;
}
.user_interface div input, .user_interface div select {
    padding: 5px;
    border-radius: 3px;
    border: none;
}
.user_interface div input[type="text"], .user_interface div
input[type="email"] {
    width: 80%;
}
.user_interface div input[type="button"] {
    width: 20%;
    background-color: #ffffff;
    margin-left: 40%;
    margin-top: 15px;
}
.user_interface div p {
    min-height: 18px;
    margin-left: 15px;
    color: #ff0000;
    margin-top: 3px;
}
.huge {
```

```css
    color: #ffffff;
    text-align: center;
    width: 100%;
    font-size: 60px;
}
```

3.9 about.js → controller for about.html

```javascript
var user_types = [
    {
        type: "select",
        value: "Select..."
    },
    {
        type: "big_spender",
        value: "Big spender"
    },
    {
        type: "budget_buyer",
        value: "Budget Buyer"
    },
    {
        type: "passionate_driver",
        value: "Passionate Driver"
    },
    {
        type: "old_timer",
        value: "Old Timer"
    },
    {
        type: "new_school",
        value: "New School"
    }
    ];

function fill_user_type() {
    var select = document.getElementById("user_type");
    user_types.forEach( function (type) {
        var u_type = document.createElement("option");
        u_type.value = type.type;
        u_type.innerHTML = type.value;
        select.appendChild(u_type);
    });
}
function form_submited() {
    var user_pat = /^([A-Z]|[a-z]|[0-9])+$/,
        email_pat = /^(\w|\d)\S*@\S+\.(\w|\d){2,}$/,
        gender = document.getElementsByName("gender"),
        user = document.getElementById("user_name").value,
        email = document.getElementById("email").value,
        option =
document.getElementById("user_type").options[document.getElementById("user_ty
pe").selectedIndex].value,
        checked = false,
        which_checked;
    gender.forEach(function (g) {
```

```javascript
        if (checked) { return; }
        if (g.checked) {
            checked = true;
            which_checked = g.value;
        }
    });
    if (!user) {
        document.getElementById("user_name_error").innerHTML = "Must enter a
valid username.";
        return;
    }
    if (user.length < 3) {
        document.getElementById("user_name_error").innerHTML = "Username must
be longer than 3 characters.";
        return;
    }
    if (!user_pat.test(user)) {
        document.getElementById("user_name_error").innerHTML = "Only letters
and numbers are allowed.";
        return;
    }
    document.getElementById("user_name_error").innerHTML = "";
    if ((!email) || (!email_pat.test(email))) {
        document.getElementById("email_error").innerHTML = "Must enter a
valid email.";
        return;
    }
    document.getElementById("email_error").innerHTML = "";
    if (!which_checked) {
        document.getElementById("gender_error").innerHTML = "Please select a
gender.";
        return;
    }
    document.getElementById("gender_error").innerHTML = "";
    if (option === 'select') {
        document.getElementById("user_type_error").innerHTML = "Please select
a valid option.";
        return;
    }
    document.getElementById("user_type_error").innerHTML = "";
    window.localStorage.setItem("user", user);
    window.localStorage.setItem("option", option);
    window.localStorage.setItem("gender", which_checked);
    document.getElementsByClassName("user_interface")[0].innerHTML = `<div
class="huge">Form submitted successfully!<div>`;
}

window.onload = function () {
    load_links();
    load_social();
    fill_user_type();
    document.getElementById("submit_user_settings").addEventListener('click',
form_submited);
};
```

3.10   author.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8"/>
    <title>Bike Magazine | Author</title>
    <link href="assets/css/style.css" rel="stylesheet" type="text/css" />
    <link href="assets/css/author.css" rel="stylesheet" type="text/css" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
    <meta name="keywords" content="author, bike, bicycle, magazine"/>
    <meta name="description" content="Author of the biggest and most popular
bike magazine of all time!"/>
    <meta name="author" content="Nikola Nedeljkovic"/>
    <meta name="copyright" content="RarOks 1008 Entertainment @ 2019"/>
    <meta name="abstract" content="Author of the Bike Magazine."/>
    <meta name="robots" content="index,follow"/>
    <link rel="shortcut icon" href="favicon.ico"/>
  </head>
  <body>
    <div class="head_holder">
        <div class="head">
            <a href="index.html"><img src="assets/images/logo.png"
alt="Logo"/></a>
            <div id="links"></div>
        </div>
        <div class="title_holder"><h1>Welcome to Bike Magazine</h1></div>
    </div>
    <h2>Author</h2>
    <div id="author"></div>
    <div class="footer">
        <div class="copyright">
            <p>&copy; Nikola Nedeljkovic 2019     @ ICT</p>
        </div>
        <div class="contact">
            <div class="info">
                <p>Nikola Nedeljkovic</p>
                <p>nikola.nedeljkovic.2.17&#64;ict.edu.rs</p>
                <p>+381/64-45-71-380</p>
            </div>
            <div class="social_media" id="soc_media"></div>
        </div>
    </div>
    <script type="text/javascript" src="assets/js/main.js"></script>
    <script type="text/javascript" src="assets/js/author.js"></script>
    <script type="text/javascript" src="assets/js/jquery.min.js"></script>
  </body>
</html>
```

3.11.   author.css → css samo za author.html

```css
.author_image {
    margin-top: 15px;
    width: 90%;
}
.author_image img {
    width: 100%;
    border-radius: 10px;
    margin-left: 5%;
    margin-bottom: 10px;
}
h3 {
    text-align: center;
    color: #ffffff;
    font-size: 36px;
    text-shadow: 2px 2px #000000;
    margin-top: 5px;
}
h3:first-child {
    margin-top: 20px;
}
table {
    user-select: none;
}
table tr td {
    font-size: 22px;
    color: #ffffff;
    text-shadow: 2px 2px #000000;
    padding: 3px;
    border-bottom: 1px dashed #ffffff;
}
table tr:first-child td {
    border-top: 1px dashed #ffffff;
}
table tr td:first-child {
    width: 30%;
    text-decoration: underline;
}
table tr td:last-child {
    width: 70%;
    padding-left: 10px;
    border-left: 2px dashed #ffffff;
}
.hover {
    background-color: rgba(0, 0, 0, 0.4);
}
```

3.12   author.js → controller for author.html

```javascript
function add_hover() {
 $('#author table tr').hover(function() {
     $(this).addClass('hover');
 }, function() {
     $(this).removeClass('hover');
 });
}

function load_author() {
    $.ajax({
        url: "data/author.json",
        method: "GET",
        type: "json",
        success: function (data) {
            data = JSON.parse(data);
            var author_data =
`<h3>${data.name}</h3><h3>${data.index}</h3><div class="author_image"><img
src="${data.image}" alt="${data.alt}"/></div><table>`;
            data.cv.forEach(function (col) {
                author_data +=
`<tr><td>${col.column1}</td><td>${col.column2}</td></tr>`;
            });
            author_data += "</table>";
            document.getElementById("author").innerHTML = author_data;
            add_hover();
        },
        error: function (xhr, error, status) {
            var author_data_error = `<h3>Error + ${error} fetching author
data. Status ${status} !</h3>`;
            document.getElementById("author").innerHTML = author_data_error;
        }
    });
}

window.onload = function () {
    load_links();
    load_author();
    load_social();
};
```

3.13.　　style.css → zajednički css za sve html-ove

```css
@font-face {
    font-family: fahkwang;
    src: url(../fonts/Fahkwang/Fahkwang-Regular.ttf);
}

@font-face {
  font-family: bikeFont;
  src: url(../fonts/bicycle-Regular.otf);
}
* {
    padding: 0;
    margin: 0;
    box-sizing: border-box;
}
body {
    font-family: fahkwang;
    background-image: url('../images/bike_stunt.jpg');
    background-size: cover;
    background-repeat: no-repeat;
    background-attachment: scroll;
    background-position: center 140px;
}
h2 {
    padding-top: 230px;
    text-align: center;
    color: #ffffff;
    font-size: 35px;
    text-shadow: 2px 2px #000000;
    background-color: rgba(0,0,0,0.5);
    padding-bottom: 10px;
}
.head_holder {
    font-family: bikeFont;
    position: fixed;
    width: 100%;
    background-image: url('../images/bike_jump.jpg');
    background-size: cover;
    background-repeat: no-repeat;
    background-attachment: fixed;
    background-position: center -10px;
    box-shadow: 0px 5px #000000;
}
.head_holder .head {
    width: 100%;
    padding-top: 10px;
    margin-bottom: 30px;
    display: flex;
    justify-content: space-around;
    align-items: center;
}
.head_holder .head #links {
    width: 80%;
}
.head_holder .head #links ul {
    list-style-type: none;
```

```css
    display: flex;
    justify-content: space-around;
}
.head_holder .head #links ul li {
    font-size: 40px;
}
.head_holder .head #links ul li a {
    text-decoration: none;
    color: #ffffff;
    text-shadow: 2px 2px #000000;
}
.head_holder .title_holder {
    text-align: center;
    color: #ffffff;
    font-size: 35px;
    text-shadow: 2px 2px #000000;
    padding-bottom: 20px;
}

.footer {
    margin-top: 30px;
    width: 100%;
}
.footer .copyright {
    width: 100%;
    text-align: center;
    background-color: rgba(0, 0, 0, 0.7);
    color: #ffffff;
    font-size: 26px;
    font-weight: 300;
    padding: 5px;
}
.footer .contact {
    width: 100%;
    display: flex;
    justify-content: space-around;
    padding: 10px;
}
.footer .contact .info {
    color: #ffffff;
    text-align: center;
    font-size: 18px;
    margin-top: 10px;
    width: 30%;
}
.footer .contact .social_media {
    width: 60%;
    margin-top: 20px;
}
.footer .contact .social_media ul {
    list-style-type: none;
    display: flex;
    justify-content: space-around;
}
.footer .contact .social_media ul li:hover {
    background-color: rgba(255, 255, 255, 0.3);
    border-radius: 2px;
```

```css
}
.footer .contact .social_media ul li a {
    text-decoration: none;
}
.footer .contact .social_media ul li a img {
    width: 35px;
}

@media screen and (max-width: 750px) {
    h2 {
        padding-top: 30px;
    }
    .head_holder {
        position: static;
    }
    .head_holder .head {
        flex-direction: column;
        align-items: flex-start;
        padding-left: 10px;
    }
    .head_holder .head #links ul {
        flex-direction: column;
    }
}
@media screen and (max-width: 600px) {
    .footer .contact {
        flex-direction: column;
        align-items: center;
    }
    .footer .contact .info {
        width: 98%;
    }
    .footer .contact .social_media {
        width: 98%;
    }
}
@media screen and (max-width: 320px) {
    .footer .contact .social_media ul {
        flex-direction: column;
        align-items: center;
    }
}
```

3.14.   main.js → zajedničke funkcionalnosti za sve html-ove

```javascript
function load_social() {
    $.ajax({
        url: "data/social_media.json",
        method: "GET",
        type: "json",
        success: function (socials) {
            socials = JSON.parse(socials);
            var soc = "<ul>";
            socials.forEach(function (s) {
                soc += `<li><a href="${s.link}"><img src="${s.image}"
alt="${s.alt}"/></a></li>`;
            });
            soc += "</ul>";
            document.getElementById("soc_media").innerHTML = soc;
        },
        error: function (xhr, error, status) {
            var social_media_error = `<h3>Error + ${error} fetching social
media information. Status ${status} !</h3>`;
            document.getElementById("soc_media").innerHTML =
social_media_error;
        }
    });
}

function load_links() {
    $.ajax({
        url: "data/links.json",
        method: "GET",
        type: "json",
        success: function (links) {
            links = JSON.parse(links);
            var list = "<ul>";
            links.forEach(function (l) {
                list += `<li><a href="${l.link}">${l.text}</a></li>`;
            });
            list += "</ul>";
            document.getElementById("links").innerHTML = list;
        },
        error: function (xhr, error, status) {
            var links_error = `<h3>Error + ${error} fetching links. Status
${status} !</h3>`;
            document.getElementById("links").innerHTML = links_error;
        }
    });
}
```

3.15.   author.json

```json
[
    {
        "text": "Home",
        "link": "index.html"
    },
    {
        "text": "About us",
        "link": "about.html"
    },
    {
        "text": "Bike Gallery",
        "link": "bikes.html"
    },
    {
        "text": "Author",
        "link": "author.html"
    }
]
```

3.16.   bikes.json

```json
[
    {
        "image": "assets/images/bikes/bike_1.jpg",
        "alt": "Ag2r's Factor 2",
        "title": "Factor 2",
        "description": "This has a more traditional look and an ultra-low frame weight of 740g. Combined with Mavic's Cosmic Carbon Ultimate wheels, we suspect Ag2r mechanics will have to add weight to the bike to ensure it stays over the UCI's 6.8kg weight limit.",
        "driving_teams": ["Ag2r"],
        "price": 7750,
        "year": 2018
    },
    {
        "image": "assets/images/bikes/bike_2.jpg",
        "alt": "Team Sky's Pinarello F10",
        "title": "Pinarello F10",
        "description": "Pinarello's latest and allegedly greatest race bike was first used at the 2017 Tour Down Under, between the legs of those marginal gaining boys in black, Team Sky. Pinarello considers the F10 to be an evolution rather than a revolution, so on the surface it doesn't look too different. But that hasn't stopped it hitting all the usual marketing buzz words by way of increased stiffness, reduced weight and lower aerodynamic drag. Marketing claims aside, it's a fast looking bike we're sure to be seeing a lot more of in 2017.",
        "driving_teams": ["Team Sky"],
        "price": 12000,
        "year": 2017
    },
    {
        "image": "assets/images/bikes/bike_3.jpg",
        "alt": "Team UAE Abu Dhabi's Colnago C60",
        "title": "Colnago C60",
```

```
            "description": "A new name in racing, the snappily monikered UAE Abu
Dhabi Team will be riding Colnago bikes for 2017. The C60 gets its unique
look from carbon tubes, which are then bonded into lugs, apparently making
for a stiffer frame. Everything else on the bike is fittingly Italian, with
Campagnolo groupset and wheels, Deda finishing kit, Vittoria tyres and a
Selle Italia saddle, In fact the only part that doesn't have Italian heritage
seems to be the Look Keo Blade pedals that don't detract in any way from this
tasty looking bike.",
            "driving_teams": ["Team UAE Abu Dhabi"],
            "price": 4100,
            "year": 2017
    },
    {
            "image": "assets/images/bikes/bike_4.jpg",
            "alt": "Tom Boonen's Specialized Venge ViAS Disc",
            "title": "Specialized Venge ViAS Disc",
            "description": "Pros have been racing the latest Specialized Venge
for a while, but what they haven't been racing, until now, is a Venge ViAS
with discs. It seems Specialized wants to see more riders on disc bikes, so
have provided Tom Boonen, Marcel Kittel and Peter Sagan with just that.
Boonen has already managed to clock a victory aboard the Venge ViAS Disc and
with no 'spinning knife' injuries to report. This custom model was shown,
although not raced, at the Tour Down Under by Peter Sagan. We suspect this
could change for the Classics and we might see Sagan racing discs on the
cobbles.",
            "driving_teams": ["Tom Boonen", "Marcel Kittel", "Peter Sagan"],
            "price": 13250,
            "year": 2019
    },
    {
            "image": "assets/images/bikes/bike_5.jpg",
            "alt": "Team Canyon SRAM's Canyon Ultimate CF SLX",
            "title": "Canyon Ultimate CF SLX",
            "description": "Is this the best looking bike in the pro peloton? We
think so. World Tour team Canyon SRAM will be racing — and we suspect winning
— aboard Canyon's flagship Ultimate and Aeroad models in 2017. Team mechanics
will be delighted to see wireless SRAM eTap fitted as standard, making
servicing much quicker, easier and less frequent. Combined with Zipp wheels,
Continental tyres and Canyon's slippery one-piece bar and stem, the Canyon
SRAM riders have some of the best kit at their disposal for a tough season of
racing.",
            "driving_teams": ["Team Canyon SRAM"],
            "price": 5926,
            "year": 2016
    },
    {
            "image": "assets/images/bikes/bike_6.jpg",
            "alt": "Trek's Emonda",
            "title": "Emonda",
            "description": "Trek released a new Emonda in 2017, and surprise,
surprise it's got a touch lighter and stiffer. Although the lack of weight
makes absolutely no difference to the pros because all the bikes have to be
within the UCI 6.8kg weight limit.",
            "driving_teams": ["Trek"],
            "price": 11300,
            "year": 2014
    },
```

```json
    {
        "image": "assets/images/bikes/bike_7.jpg",
        "alt": "Canyon's Aeroad CF SLX",
        "title": "Aeroad CF SLX",
        "description": "Much like death and taxes, if there's one thing that
you can guarantee in life it's that Movistar will be winning races in 2018,
and even though Alejandro Valverde's coming back from a nasty injury, we
suspect he will be contributing to that tally. Who knows how that guy keeps
getting better with age?",
        "driving_teams": ["Movistar"],
        "price": 4600,
        "year": 2014
    },
    {
        "image": "assets/images/bikes/bike_8.jpg",
        "alt": "Pinarello's Dogma",
        "title": "Dogma",
        "description": "Team Sky's Pinarello Dogma may seem like an obvious
choice, but it's gone through some subtle changes for 2018. First, the
colour. Adding bits of white to match Sky's new white kit will hopefully go
some way to making a squad currently clouded in controversy seem, dare we say
it, a bit more friendly.",
        "driving_teams": ["Team Sky"],
        "price": 4335,
        "year": 2009
    },
    {
        "image": "assets/images/bikes/bike_9.jpg",
        "alt": "Specialized's Tarmac",
        "title": "Tarmac",
        "description": "No pro bike list would be complete without including
the new Specialized Tarmac, and there's no doubt you'll be seeing a lot more
of this particular model, which will be ridden by Peter Sagan in 2018. Just
like every bike on our list, it looks fast and will weigh around 6.8kg. Where
it differs is with the fancy custom paintjob and an all-new Specialized dual-
sided power meter.",
        "driving_teams": ["Peter Sagan"],
        "price": 8500,
        "year": 2018
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    {
        "image": "assets/images/bikes/bike_10.jpg",
        "alt": "Colnago's V2-R",
        "title": "V2-R",
        "description": "UAE team Emirates are going almost — but not quite —
full Italian for 2018. The frame is Italian, specifically Colnago's new V2-R,
and the wheels, groupset, tyres, saddle and finishing kit are also Italian,
hello Campagnolo, Vittoria, Prologo and Deda.",
        "driving_teams": ["UAE team Emirates"],
        "price": 12000,
        "year": 2017
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    {
        "image": "assets/images/bikes/bike_11.jpg",
        "alt": "Cannondale SystemSix",
        "title": "SystemSix",
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        "description": "Cannondale claims that its new SystemSix, available
only with disc brakes, is "the world's fastest UCI-legal road bike", largely
thanks to an aerodynamic performance that has been honed in CFD
(computational fluid dynamics) and the wind tunnel.",
        "driving_teams": [],
        "price": 3499,
        "year": 2018
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    {
        "image": "assets/images/bikes/bike_12.jpg",
        "alt": "Specialized Venge",
        "title": "Venge",
        "description": "Specialized has radically redesigned its Venge aero
road bike for 2019, giving it an all-new frame and fork that's compatible
only with disc brakes and electronic gears – meaning that there are no
complete bikes available for less than £6,250. Gulp!",
        "driving_teams": [],
        "price": 9750,
        "year": 2018
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    {
        "image": "assets/images/bikes/bike_13.jpg",
        "alt": "Look 795 Blade RS",
        "title": "Look 795 Blade RS",
        "description": "The new Look 795 Blade RS aero road bike features
truncated aero section tubes, an invisible seatpost clamp and an integrated
aero cockpit. The seatstays are long and curved and there's no brake bridge
between them. The design is intended to allow some vertical movement for
increased comfort and traction. The bike is available in both rim brake and
disc brake versions.",
        "driving_teams": [],
        "price": 10000,
        "year": 2018
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    {
        "image": "assets/images/bikes/bike_14.jpg",
        "alt": "Merida Scultura 4000 Disc",
        "title": "Scultura 4000 Disc",
        "description": "Merida is one of the biggest manufacturers of carbon
fibre frames, and that experience and expertise show in this Scultura 4000
Disc. As well as a light frame, you get a full Shimano 105 groupset with disc
brakes. It has Merida's CF2 geometry, which is less racy than the CF4 layout
of Merida's pure race bikes, and there's room in the frame for 28mm tyres.",
        "driving_teams": [],
        "price": 2150,
        "year": 2017
    },
    {
        "image": "assets/images/bikes/bike_15.jpg",
        "alt": "Giant TCR Advanced 3",
        "title": "TCR Advanced 3",
        "description": "Giant offer their amazing TCR in a Tiagra 4700
version. The groupset is Tiagra throughout with no cutting corners. Giant
supply all the contact points, wheels, tyres, stem and seatpost to bring a
bike that really impresses both on the spec sheet and out on the road.",
        "driving_teams": [],
        "price": 1299,
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        "year": 2012
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    {
        "image": "assets/images/bikes/bike_16.jpg",
        "alt": "Cube Attain SL",
        "title": "Attain SL",
        "description": "With a Shimano 105 groupset on its 6061 aluminium
frame, this is the lightest of Cube's Attain line of go-faster sportive
bikes. There's clearance for 28mm tyres (28mm Conti Ultra Sport 2s are
fitted) and a not-too-stretched riding position so it's quick, but you won't
need pro-level flexibility to get comfortable on it.",
        "driving_teams": [],
        "price": 999,
        "year": 2019
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    {
        "image": "assets/images/bikes/bike_17.jpeg",
        "alt": "Trek Domane SL 6 Disc",
        "title": "Domane SL 6 Disc",
        "description": "If comfort interests you most in a carbon road bike,
then the latest incarnation of the Domane might be the bike for you. It
features a unique system that allows the seatpost to move independently of
the frame, which works to smooth out bumps and vibrations generated when
riding over a rough road. Or cobbles. The SL also features the same
technology at the front and it, along with a new rubber infused carbon
handlebar, helps to provide an incredibly smooth and composed ride over any
sort of road surface. There are also hidden mudguard mounts for the winter.
It's truly a bike for all weathers.",
        "driving_teams": [],
        "price": 3100,
        "year": 2019
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    {
        "image": "assets/images/bikes/bike_18.jpg",
        "alt": "Giant Contend SL 1 Disc",
        "title": "Contend SL 1 Disc",
        "description": "Contend is Giant's name for the aluminium-framed
equivalents of the Defy carbon-fibre bikes. The Contend range has a disc
option on several models and the Contend SL 1 Disc is currently a bargain in
end-of-season sales as retailers clear the decks for 2019 models. It has
Giant's ALUXX SL aluminium frame in an endurance geometry, Shimano 105
transmission, Giant PR2 disc wheels and Giant Conduct hydraulic disc
brakes.",
        "driving_teams": [],
        "price": 959,
        "year": 2019
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    {
        "image": "assets/images/bikes/bike_19.jpg",
        "alt": "Giant Defy",
        "title": "Defy",
        "description": "The latest version of Giant's hugely popular
endurance road bike has wider tyre clearance than previously (up to 32mm),
tubeless tyres and D-Fuse handlebars that are designed to provide extra
compliance. The Defy Advanced Pro 0 also comes with Giant's new Power Pro
dual-sided power meter, which looks like a great deal for £4,499.",
        "driving_teams": [],
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        "price": 4499,
        "year": 2019
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        "image": "assets/images/bikes/bike_20.jpg",
        "alt": "Boardman SLR 8.9 Carbon",
        "title": "Boardman SLR 8.9 Carbon",
        "description": "The new Boardman SLR 8.9 Carbon mightily impressed
road.cc technical editor Mat Brett, a man who regularly gets to ride bikes
that cost the thick end of ten grand, and who's therefore not easily
impressed. The highlight is an excellent, comfortable but sharp-handling
frame that will stand component upgrades from the stock Tiagra parts as
things wear out.",
        "driving_teams": [],
        "price": 1000,
        "year": 2017
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    {
        "image": "assets/images/bikes/bike_21.jpg",
        "alt": "3T Strada Due",
        "title": "Strada Due",
        "description": "The Strada aero road bike was initially designed with
a single chainring transmission in mind but 3T has now added the Strada Due
to the lineup, giving you the option of fitting an electronic groupset with a
double chainring. The seat tube has also been beefed up a little to support
the use of the front mech, but that change aside it's the same as the
original Strada.",
        "driving_teams": [],
        "price": 3699,
        "year": 2018
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    {
        "image": "assets/images/bikes/bike_22.jpg",
        "alt": "Trek Madone SLR 6 P1",
        "title": "Madone SLR 6 P1",
        "description": "The rim brake bikes are slightly lighter than the
newly introduced disc brake models, but Trek says there's no aerodynamic
penalty in going for discs. The Madone SLR is a high-end option, even the
most affordable rim brake option, the SLR 6 P1, is £5,500.",
        "driving_teams": [],
        "price": 5500,
        "year": 2019
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    {
        "image": "assets/images/bikes/bike_23.jpg",
        "alt": "Ridley Noah Fast",
        "title": "Noah Fast",
        "description": "Ridley has redesigned its top-level aero road bike
with channels towards the front edge of the tubing that are designed to act
as vortex generators to reduce drag. The fork integrates with the frame, the
seatpost clamp is hidden from the airflow and an integrated handlebar/stem is
fitted up front. The cabling is internally routed through the bar/stem and
Ridley claims a weight saving of about 250g over the previous Noah. Both rim
brake and disc brake versions are available.",
        "driving_teams": [],
        "price": 8189,
        "year": 2019
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        },
        {
            "image": "assets/images/bikes/bike_24.jpg",
            "alt": "Calibre Nibiru 1.0",
            "title": "Nibiru 1.0",
            "description": "Far and away the cheapest carbon fibre bike anywhere,
the Nibiru 1.0 is only available from camping and hiking chain Go Outdoors,
It comes with a Shimano Sora 9-speed groupset, with a 50/34 chainset and an
11-32 cassette, so it has a wide gear range for the hills. It's hung with a
good selection of brand-name parts including Mavic wheel rims and Ritchey
bar, stem and seatpost. The only catch is that it's only available in limited
sizes: 53, 56, 58 and 59cm.",
            "driving_teams": [],
            "price": 599,
            "year": 2015
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        {
            "image": "assets/images/bikes/bike_25.jpg",
            "alt": "Ribble R872",
            "title": "R872",
            "description": "This is Ribble's cheapest carbon fibre model, with a
range of options starting at £999 for a Shimano Tiagra group on a carbon
fibre frameset designed for taming sportives. The benefit of the Bike Builder
option is that you can spec exactly what you want; the Shimano 105-equipped
version above is £1,199.",
            "driving_teams": [],
            "price": 999,
            "year": 2017
        },
        {
            "image": "assets/images/bikes/bike_26.jpg",
            "alt": "Whyte Dorset",
            "title": "Dorset",
            "description": "This is truly a performance road bike with disc
brakes rather than a re-engineered hybrid or cyclocross bike. If you want a
bike for getting from A to B quickly all year round, and that can cope with
whatever the British roads and weather can throw at it this could be for you.
We were very impressed when we reviewed the 2014 version. At its heart is a
well designed, well put together aluminium frame with lots of nicely detailed
touches. You can easily fit mudguards (always a plus) and the ride and
handling is right up there with the best of the new breed of aluminium road
bikes. There are 28mm Maxxis Rouleur tyres and the Shimano Sora groupset with
TRP Hy/Rd mechanical disc brakes.",
            "driving_teams": [],
            "price": 999,
            "year": 2014
        },
        {
            "image": "assets/images/bikes/bike_27.jpg",
            "alt": "Canyon Endurace CF 7.0",
            "title": "Endurace CF 7.0",
            "description": "The Endurace is Canyon's bike for riding long
distances in comfort, with a more relaxed geometry than the racier Ultimate,
and wider tyres also contributing to the smoother ride this model aims to
offer. You get a full Shimano 105 R7000 11-speed groupset with this bike, no
shortcuts, even the brake calipers and crankset are 105. Quality abounds with
Mavic Aksium wheels shod with Continental Grand Prix SL tyres. Canyon claims
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a bike weight of 8.0kg which, if accurate, is a very respectable weight for a
bike of this price.",
        "driving_teams": [],
        "price": 1249,
        "year": 2018
    },
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        "image": "assets/images/bikes/bike_28.jpg",
        "alt": "Triban RC 500 & RC 520",
        "title": "RC 500 & RC 520",
        "description": "A cheap entry on a list of the hottest bikes? Why
not? Decathlon has added two new disc-braked models in the popular Triban
range and they look like exceptional value for money. The £530 Triban RC 500
and £730 Triban RC 520 share the new Evo 18 6061 aluminium frame, with a tall
head tube, steeply sloping top tube, fittings for racks and mudguards and
clearance for tyres up to 40mm wide. These are deeply practical bikes, but
they're not unexciting. It might take a little while to wind them up to speed
but once there they boom along very nicely!",
        "driving_teams": [],
        "price": 729,
        "year": 2018
    },
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        "image": "assets/images/bikes/bike_29.jpg",
        "alt": "Cannondale SuperSix Evo Ultegra Di2",
        "title": "SuperSix Evo Ultegra Di2",
        "description": "'Next year' models are in the shops already and one
of the picks of 2018's range is the latest incarnation of Cannondale's
SuperSix Evo Ultegra Di2, which packs quite a lot of bike for three grand.
The SuperSix Evo frame features Cannondale's BallisTech carbon fibre in a
traditional frame geometry. The Ultegra Di2 a very nice balance of perfect
shifting and more attractive price point. The semi-compact 52/36 chainset is
paired with an 11/28 cassette to give aggressive climbing gearing. The Mavic
Askium WTS wheels are a little out of their league on this setup, but you can
always treat yourself to some top-flight wheels later and keep them for
training.",
        "driving_teams": [],
        "price": 3200,
        "year": 2017
    },
    {
        "image": "assets/images/bikes/bike_30.jpg",
        "alt": "Genesis Zero Disc",
        "title": "Zero Disc",
        "description": "Genesis has added disc brake versions of its Zero
carbon fibre race bike for 2019, with 12mm thru-axles and flat mount disc
brakes. The aggressive geometry is unaltered.",
        "driving_teams": [],
        "price": 2700,
        "year": 2019
    },
    {
        "image": "assets/images/bikes/bike_31.jpg",
        "alt": "Cipollini NK1K",
        "title": "Zero Disc",
        "description": "A monocoque frame made in Italy. For many, that fact
alone warrants the price tag. If you're not convinced by that alone, the NK1K
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is made for sprinting. The chap with his name on it was rather good at going
fast after all. Build options are up to you and depend on the depth of your
pockets.",
        "driving_teams": [],
        "price": 4699,
        "year": 2015
    },
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        "image": "assets/images/bikes/bike_32.jpg",
        "alt": "Specialized Tarmac Disc Pro",
        "title": "Tarmac Disc Pro",
        "description": "If you're looking for proven race pedigree, then
Specialized's Tarmac series can probably win you a game of Top Trumps. In its
various iterations, this frame has won Grand Tours, Classics and rainbow
jerseys. The 2019 Tarmac Disc Pro version gets the latest 8000 Shimano
offering in electronic form, and like most of the 2019 Tarmac range has disc
brakes, though there are still a couple of rim-braked models for
traditionalists. The Roval CL 50 wheels are shod with Specialized Turbo S-
Works tyres and a Specialized Toupe saddle sits atop an S-Works carbon
seatpost.",
        "driving_teams": [],
        "price": 6000,
        "year": 2019
    },
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        "image": "assets/images/bikes/bike_33.jpg",
        "alt": "Bianchi Specialissima",
        "title": "Specialissima",
        "description": "This Italian brand is one of the most desirable, with
its history and iconic celeste paint, and this new Specialissima is its
newest creation. It's a bike designed unashamedly to be as light as possible,
but there's a concession to comfort, without compromising frame stiffness.
The carbon layup incorporates the same vibration damping CounterVail
technology first seen on the Infinito CV endurance bike a couple of years
ago. The Campagnolo Super Record groupset and Bora Ultra wheels produce a
complete bike weight that tickles the UCI minimum weight limit. So light that
it's illegal in any UCI race.",
        "driving_teams": [],
        "price": 5750,
        "year": 2016
    },
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        "image": "assets/images/bikes/bike_34.jpg",
        "alt": "Scott Addict RC Premium Disc",
        "title": "Addict RC Premium Disc",
        "description": "Scott offers two versions of its Addict road bike,
dividing it into Addict endurance bikes and Addict RC race machines; this is
Scott's top of the line race bike. As well as one of the lightest disc-
compatible frames around it has Shimano Dura-Ace Di2 electronic shifting, DT
Swiss PRC 1100 Dicut db carbon clincher wheels, Syncros one-piece carbon bar
and stem, and Syncros carbon seatpost. Scott claims a weight of 6.85kg, very
impressive for a disc-braked bike.",
        "driving_teams": [],
        "price": 8999,
        "year": 2019
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            "image": "assets/images/bikes/bike_35.jpg",
            "alt": "BMC Timemachine 01 Road One",
            "title": "Timemachine 01 Road One",
            "description": "Swiss manufacturer BMC has pulled a blinder with its
top model for 2019, taking the fundamentals of its time trial bikes and using
them to build a disk-braked aero road bike that looks like it's powering away
from the bunch even when it's standing still. The brain for its Shimano Dura-
Ace Di2 electronic shifting is incorporated into the frame and its disc
brakes and DT Swiss ARC 1100 carbon fibre wheels make for a thoroughly up-to-
date race bike. It's dripping with clever details: BMC's own super-light
through axles, the sleek Integrated Cockpit System bar and stem, brake hoses
and gear wires routed almost-invisibly through the frame, super-tidy Direct
Frontal Flat Mount brake mounts.",
            "driving_teams": [],
            "price": 10000,
            "year": 2018
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        {
            "image": "assets/images/bikes/bike_36.jpg",
            "alt": "Colnago C64",
            "title": "C64",
            "description": "Unlike the majority of carbon frames in this guide
that are made using the common moulding process, the C64 is constructed by
bonding the tubes together using oversized lugs. It's the same approach the
Italian company has been using on its flagship carbon frames since the C40
some 20 years ago. It gives the frame a more traditional appearance perhaps
than the smoother frames, but there's no doubting the performance and quality
of the ride it produces.",
            "driving_teams": [],
            "price": 10299,
            "year": 2018
        },
        {
            "image": "assets/images/bikes/bike_37.jpg",
            "alt": "Specialized Dolce Elite",
            "title": "Dolce Elite",
            "description": "The Dolce has an aluminium frame and FACT carbon fork
with Zertz inserts in the fork, intended to provide more comfort. You get a
Body Geometry Women's Myth Sport saddle and Specialized Roubaix gel bar tape
to add further comfort. The parts list includes a 11-speed Shimano 105 R7000
drivetrain with a wide range 11-32 cassette, Praxis Alba 48/32 chainset, and
Specialized Espoir Sport 25mm tyres.",
            "driving_teams": [],
            "price": 1050,
            "year": 2012
        },
        {
            "image": "assets/images/bikes/bike_38.jpg",
            "alt": "Planet X Pro Carbon Evo",
            "title": "Planet X Pro Carbon Evo",
            "description": "The Planet X Pro Carbon has always been a popular
entry-level carbon fibre bike, but it was looking a bit dated. This new
version corrects that with modern lines, a new lay-up, and tapered steerer,
among other changes, and it's currently available with Shimano's 105 R7000
groupset for the frankly amazing price of a thousand quid.",
            "driving_teams": [],
            "price": 1000,
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        "year": 2018
    },
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        "image": "assets/images/bikes/bike_39.jpg",
        "alt": "Raleigh Mustang Sport",
        "title": "Mustang Sport",
        "description": "We really liked the Raleigh Mustang Elite when we
tested it; this is the less-spendy version of the same idea. It does
everything a regular road bike does, but it does it with the added comfort of
the big tyres. It's part of Raleigh's three-bike range of gravel/adventure
bikes and a great example of the booming category. Its 6061 double butted
aluminium frame is designed for both on and off road riding so if you're
getting tempted by your local dirt roads and trails, or a canal towpath
commute, it'll take it in its stride.",
        "driving_teams": [],
        "price": 800,
        "year": 2017
    },
    {
        "image": "assets/images/bikes/bike_40.jpg",
        "alt": "Cannondale Synapse Alloy Tiagra Disc",
        "title": "Synapse Alloy Tiagra Disc",
        "description": "We think the colour scheme of this disc-braked
endurance bike is going to be a bit Marmite; you'll either think it's
handsome and understated or find it boring. Under the paint, the Synapse is
the US company's endurance bike, designed primarily to be comfortable, so
making it ideal for sportives, riding to work and club runs.",
        "driving_teams": [],
        "price": 1000,
        "year": 2019
    },
    {
        "image": "assets/images/bikes/bike_41.jpg",
        "alt": "Pinnacle Arkose 2",
        "title": "Arkose 2",
        "description": "Evans Cycles bills the Arkose 2 as an adventure bike,
and acknowledges that designation as indicating 'a true all-rounder', which
is definitely what the Arkose bikes have become since starting out as modest
soft cyclocross bikes a few years ago. The Arkose 2 has room for 45mm tyres,
or will happily take 28mm rubber for zipping along on the road, and has
Shimano Tiagra components including hydraulic disc brakes, a rare feature on
a sub-£1,000 bike.",
        "driving_teams": [],
        "price": 900,
        "year": 2018
    },
    {
        "image": "assets/images/bikes/bike_42.jpg",
        "alt": "Specialized Diverge E5 Elite",
        "title": "Diverge E5 Elite",
        "description": "This year's thousand quid Diverge gets a Tiagra
groupset instead of the previous Sora, but loses the bump-absorbing Future
Shock fork for what's arguably a more balanced spec given the quality of the
lightweight E5 aluminium frame. There's clearance for 42mm tyres and the
components are all reliable and the details sensible, with a 32/34 low gear
from the Praxis Alba chainset and wide-range cassette, and flat-mount disc
brakes for easy upgrade to Shimano hydraulics at a later date.",
```

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        "driving_teams": [],
        "price": 999,
        "year": 2019
    },
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        "image": "assets/images/bikes/bike_43.jpg",
        "alt": "Canyon Endurace AL 7",
        "title": "Endurace AL 7",
        "description": "Canyon's Endurace follows the design of the carbon
Endurace first introduced in 2014, but its aluminium frame is longer in the
wheelbase and taller in the head tube, to create a more comfortable
position.",
        "driving_teams": [],
        "price": 999,
        "year": 2018
    },
    {

        "image": "assets/images/bikes/bike_44.jpg",
        "alt": "Rose Pro SL 105",
        "title": "Pro SL 105",
        "description": "By not selling bikes in shops in the traditional way,
this German online retailer can pass on some pretty good savings to the
customer if you're prepared to shop online. This attractive Pro SL 105
features a triple butted 7005 aluminium frame and carbon fibre fork with a
Shimano 105 11-speed groupset, making it better appointed than many similarly
priced bikes in this roundup. A Shimano 105 compact chainset provides a
usable low range spread of gears, and the Mavic Aksium wheels and tyres are
fast and responsive.",
        "driving_teams": [],
        "price": 997,
        "year": 2018
    },
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        "image": "assets/images/bikes/bike_45.jpg",
        "alt": "Rose Pro SL 105 Lady",
        "title": "Pro SL 105 Lady",
        "description": "The Rose Pro SL 200 Lady is the women's version of
the Pro SL. Again, although it's a women's specific bike it may well suit a
lot of men. It comes in four sizes compared to the Pro SL 2000's eight, and
there are some differences in the finishing kit — it has narrower handlebars,
and a women's specific saddle.",
        "driving_teams": [],
        "price": 897,
        "year": 2018
    }
]
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3.17.   quotes.json

```
[
    "\"The truth is you don't know what is going to happen tomorrow. Life is
a crazy ride, and nothing is guaranteed.\"",
    "\"Life ain't always beautiful, but it's a beautiful ride.\"",
    "\"I think the thing to do is enjoy the ride while you're on it.\"",
    "\"Have fun, be active. Ride a bike instead of driving, for example.\"",
    "\"If biking is your passion, set aside time to enjoy a good ride.\"",
    "\"Be willing to step outside your comfort zone once in a while; take the
risks in life that seem worth taking. The ride might not be as predictable if
you'd just planted your feet and stayed put, but it will be a heck of a lot
more interesting.\"",
    "\"It's been quite a ride. I loved every minute of it.\"",
    "\"Love doesn't make the world go 'round. Love is what makes the ride
worthwhile.\"",
    "\"I can think. I can sleep. I can move. I can ride my bike. I can
dream.\"",
    "\"My life has been a gift up to this point, and I've been blessed beyond
my wildest imagination. And wherever this ride takes me is where I'm
going.\"",
    "\"One thing I've learned about life is that if you really let go, it's
just a joy ride.\"",
    "\"If you surrendered to the air, you could ride it.\"",
    "\"It's the way you ride the trail that counts.\"",
    "\"Cyclists see considerably more of this beautiful world than any other
class of citizens. A good bicycle, well applied, will cure most ills this
flesh is heir to.\"",
    "\"Nothing compares to the simple pleasure of riding a bike.\"",
    "\"A bicycle ride around the world begins with a single pedal stroke.\"",
    "\"Give a man a fish and feed him for a day. Teach a man to fish and feed
him for a lifetime. Teach a man to cycle and he will realize fishing is
stupid and boring.\"",
    "\"Cycling isn't a game, it's a sport. Tough, hard and unpitying, and it
requires great sacrifices. One plays football, or tennis, or hockey. One
doesn't play at cycling.\"",
    "\"To me, it doesn't matter whether it's raining or the sun is shining or
whatever: as long as I'm riding a bike I know I'm the luckiest guy in the
world.\"",
    "\"I don't ride a bike to add days to my life. I ride a bike to add life
to my days.\"",
    "\"When the spirits are low, when the day appears dark, when work becomes
monotonous, when hope hardly seems worth having, just mount a bicycle and go
out for a spin down the road, without thought on anything but the ride you
are taking.\"",
    "\"It is by riding a bicycle that you learn the contours of a country
best, since you have to sweat up the hills and coast down them.\"",
    "\"You either love spinning the pedals and watching scenery whiz by, or
you don't. And if you love it, not much can sour you on the idea of riding
your bike.\"",
    "\"The bicycle is a curious vehicle. Its passenger is its engine.\"",
    "\"Crashing is part of cycling as crying is part of love.\"",
    "\"When I was a kid I used to pray every night for a new bicycle. Then I
realised that the Lord doesn't work that way so I stole one and asked Him to
forgive me.\"",
    "\"Truly, the bicycle is the most influential piece of product design
ever.\"",
```

```
    "\"One of the most important days of my life, was when I learned to ride
a bicycle.\"",
    "\"The cyclist is a man half made of flesh and half of steel that only
our century of science and iron could have spawned.\"",
    "\"The bicycle is the most civilized conveyance known to man. Other forms
of transport grow daily more nightmarish. Only the bicycle remains pure in
heart.\"",
    "\"Learn to ride a bicycle. You will not regret it if you live.\"",
    "\"When man invented the bicycle he reached the peak of his
attainments.\"",
    "\"As a kid I had a dream — I wanted to own my own bicycle. When I got
the bike I must have been the happiest boy in Liverpool, maybe the world. I
lived for that bike. Most kids left their bike in the backyard at night. Not
me. I insisted on taking mine indoors and the first night I even kept it in
my bed.\"",
    "\"The bicycle has done more for the emancipation of women than anything
else in the world.\""
]
```

3.18.   social_media.json

```json
[
    {
        "link":
"https://www.facebook.com/groups/133217443853219/permalink/144719669369663/",
        "image": "assets/images/social-networks/facebook.png",
        "alt": "Facebook Logo"
    },
    {
        "link": "https://connect.unity.com/u/5a22ab4f880c64001e4f69fe",
        "image": "assets/images/social-networks/unity.png",
        "alt": "Unity Logo"
    },
    {
        "link": "https://twitter.com/raroks1008en",
        "image": "assets/images/social-networks/twitter.png",
        "alt": "Twitter Logo"
    },
    {
        "link": "https://www.linkedin.com/in/raroks-entertainment-
698399143/",
        "image": "assets/images/social-networks/linkedin.png",
        "alt": "LinkedIn Logo"
    },
    {
        "link": "https://plus.google.com/u/0/112765633989100563682",
        "image": "assets/images/social-networks/googleplus.png",
        "alt": "GooglePlus Logo"
    },
    {
        "link": "documentation/documentation.pdf",
        "image": "assets/images/documentation.png",
        "alt": "Documentation"
    }
]
```

3.19.   form_data.json

```json
{
    "sort_by": [
        {
            "type": "no_sort",
            "value": "No Sort"
        },
        {
            "type": "name_a-z",
            "value": "Name A-Z"
        },
        {
            "type": "name_z-a",
            "value": "Name Z-A"
        },
        {
            "type": "price_low",
            "value": "Price Lowest to Highest"
        },
        {
            "type": "price_high",
            "value": "Price Highest to Lowest"
        },
        {
            "type": "year_early",
            "value": "Year Earliest to Newest"
        },
        {
            "type": "year_newest",
            "value": "Year Newest to Earliest"
        }
    ],
    "gender": [
        {
            "type": "show_all",
            "value": "Show All"
        },
        {
            "type": "male",
            "value": "Male"
        },
        {
            "type": "female",
            "value": "Female"
        }
    ]
}
```

3.20.   author.json

```json
{
    "name": "Nikola Nedejkovic",
    "index": "2/17",
    "image": "assets/images/author.jpg",
    "alt": "Author image",
    "cv": [
        {
            "column1": "Date and place of birth",
            "column2": "06.05.1996, Krusevac"
        },
        {
            "column1": "Experience 2017 -",
            "column2": "Front-End Developer at Summa Labs D.O.O"
        },
        {
            "column1": "Experience 17. – 18. November 2018.",
            "column2": "Lecturer at the one hundreadth RGB workshop"
        },
        {
            "column1": "Experience 2013 -",
            "column2": "Astronomical society of \"Eureka\" Krusevac"
        },
        {
            "column1": "Experience 2013 - 2014",
            "column2": "Member of the student team on the project GAM
Asteroid Search Campaigntim"
        },
        {
            "column1": "Education 2017 -",
            "column2": "College of professional studies for information and
communication technologies in Belgrade"
        },
        {
            "column1": "Education 2011 - 2015",
            "column2": "High School Krusevac"
        },
        {
            "column1": "Courses and certificates",
            "column2": "Certificate for attendance on the conference
Umrezavanje: New Age"
        },
        {
            "column1": "Courses and certificates",
            "column2": "Certificate for attendance on the conference
Umrezavanje: Knowledge For The Future"
        },
        {
            "column1": "Courses and certificates",
            "column2": "ALISON certificate for Microsoft Excel 2010"
        },
        {
            "column1": "Courses and certificates",
            "column2": "ALISON certificate for Microsoft PowerPoint 2010"
        },
        {
```

```
        "column1": "Courses and certificates",
        "column2": "Certificate for German language A1"
    },
    {
        "column1": "Courses and certificates",
        "column2": "Certificate for presence on the conference KIMUN"
    },
    {
        "column1": "Courses and certificates",
        "column2": "Award Outstanding Delegate on the conference KIMUN"
    },
    {
        "column1": "Courses and certificates",
        "column2": "Laid Google online course \"Basics of online
marketing\""
    },
    {
        "column1": "Courses and certificates",
        "column2": "Certificate for participation in  InOMN 2013"
    },
    {
        "column1": "Courses and certificates",
        "column2": "FCE diploma for English language with grade A
(demonstrated knowledge of  C1)"
    },
    {
        "column1": "Courses and certificates",
        "column2": "Course Certificate: \"Take your Xamarin.Android
Skills to the next level now!\""
    },
    {
        "column1": "Courses and certificates",
        "column2": "Course Certificate: \"HTML Coding for Beginners
Course: Learn HTML in 1 Hour\""
    },
    {
        "column1": "Courses and certificates",
        "column2": "Certificate of attendance on the presentation:
\"Study abroad with Cambridge English: Advanced (CAE)\""
    },
    {
        "column1": "Language knowledge",
        "column2": "Serbian language (mother tongue), English language
(higher level), Italian language (intermediate level), German language
(initial level)"
    },
    {
        "column1": "Programming languages",
        "column2": "Basic, Pascal, C, C++, C#, JavaScript"
    },
    {
        "column1": "Front end knowledge in",
        "column2": "HTML, CSS, SCSS, SASS, LESS, XML, Bootstrap,
AngularJS, AngularJS Materials, NodeJS, JQuery"
    },
    {
        "column1": "Environments",
```

```json
            "column2": "Electron"
        },
        {
            "column1": "VCS",
            "column2": "Git"
        },
        {
            "column1": "Project management and tracking",
            "column2": "Scrum (JIRA)"
        },
        {
            "column1": "Other",
            "column2": "Member of Mensa International since 2013."
        }
    ]
}
```

4. HIJERARHIJSKI PREGLED

```
∨ 📁 assets
    ∨ 📁 css
        📄 about.css
        📄 author.css
        📄 bikes.css
        📄 index.css
        📄 style.css
    ∨ 📁 fonts
        › 📁 Fahkwang
        📄 bicycle-Regular.otf
    › 📁 images
    › 📁 js
› 📁 data
› 📁 documentation
📄 about.html
📄 author.html
📄 bikes.html
🖼 favicon.ico
📄 index.html
📄 robots.txt
📄 sitemap.xml
```