Visoka škola strukovnih studija za informacione i komunikacione tehnologije

Dokumentacija MLN Banka

Web Programiranje 1

Smer: Internet Tehnologije

Student: Obrad Pualić-Radujko 25/21

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1. Uvod

1.1 Korišćene Tehnologije

- Html5
- Css₃
- JavaScript
- Jquery
- Visual Studio code

1.2 Opis Funkcionalnosti

1.2.1Index stranica

- Navigacioni meni je urađen dinamički kroz JavaScript. Na manjim ekranima navigacioni meni prelazi u dugme hamburger koje na klik izbacuje nav meni. Prilikom skrolovanja stranice navigacioni meni ostaje na vrhu (odrađeno u JavaScriptu). Prelaskom miša preko linkova ostali elementi u meniju gube vidljivost za 50% (odrađeno u JavaScriptu).
- **Sekcije** se ispisuju dinamički i poseduju animacije ulaska odozdo, koje se aktiviraju prilikom skrolovanja stranice.
- Interaktivna dugmad na sekciji "Operacije", klikom na svako prikazuje se različit tekst.
- **Interaktivan slajder** gde se utisci korisnika menjaju na neko od strelica ili tasterima levo, desno na tastaturi, ispisan je dinamički.

1.2.2Account stranica

- **Korisnički unos** se proverava regularnim izrazima i na taj način se kroz formu registracije ili formu logovanja interaktivno korisniku daje do znanja da li je sve ispravno uneto ili ne.
- **Dugme "Napravi račun"** ispisuje grešku ako su polja neispravno napisana, dok ako je sve u redu ispisaće se korisnički PIN koji se koristi za logovanje.
- **Dugme "Imate račun"** sakriva registraciju i prikazuje formu za logovanje.
- **Dugme** "**Uloguj se**" ispisuje grešku ako su polja neispravno napisana(sintaksno ili ako račun ne postoji), dok ako je sve u redu forma za logovanje će se sakriti i prikazaće se prozor sa podacima, transakcijama i operacijama računa.
- **Operacija "Pošaljite novac"** će usled postojećeg računa poslati određenu svotu novca odabranom korisniku klikom na taster "Potvrdi".
- **Operacija "Uzmite kredit"** će dodati izabranu količinu novca na račun.
- **Operacija "Zatvorite račun"** će usled ispravno napisanog imena računa i pin koda izbrisati račun.
- Blok "Transakcije" ineraktivno ispisuje transakcije računa.
- **Blok sa informacijama računa** se interaktivno ispisuje koristeći podatke trenutno logovanog računa.

1.3 Template

• Za izradu ovog sajta nije korišćen template.

2. Organizacija

2.1 Organizaciona šema



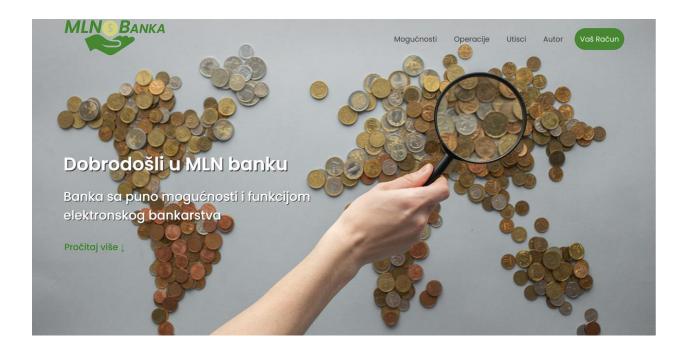
2.2 Mapa sajta

2.3 Opis stranica sajta

2.3.1Index stranica

Pri učitavanju stranice dinamički se ispisuju navigacioni meni. Navigacioni meni je responsive tako da se na manjim rezolucijama pojavljuje "hamburger"

taster koji prikazuje navigacini meni. Heder sadrzi taster "Pročitaj više" koji pogled prebacuje na prvu sekciju "Mogućnosti".



U sekcijji "Mogućnosti" Dinamički se ispisuju blokovi sa ikonicom, tekstom i slikom.



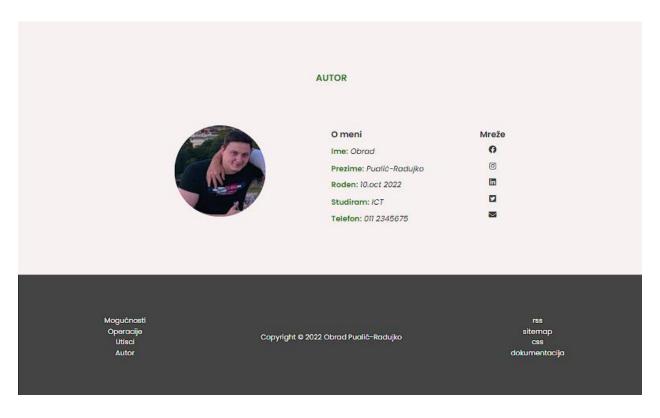
U sekciji "Operacije" dinamički se ispisuje prozor sa tekstom i tri tastera čija je uloga da prikazuju različite tekstove vezane za opisanu operaciju.



U sekcija "Utisci" dinamički se ispisuje sadržaj slajdera. Klikom na jedan od tastera slajder se menja i prikazuje drugog korisnika. Usled pomeranja i tačke ispod komentara menjaju boju.



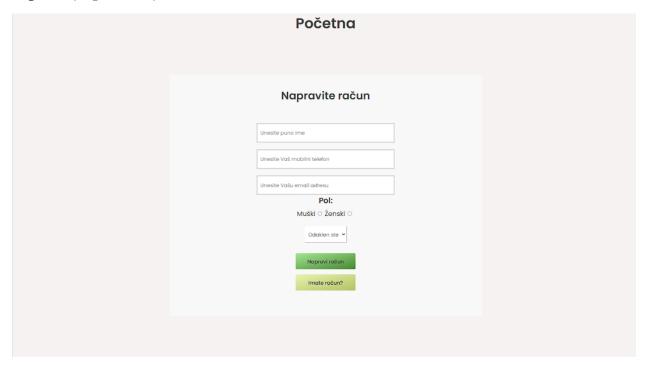
Sekcija "Autor" i footer prikazuju autora, njegove podatke i osnovne podatke sajta.



2.3.2Account stranica

Pri učitavanju stranice prikazuje se forma za registraciju koja je dinamički ispisana u JavaScriptu. U toku pisanja podataka u poljima vrši se validacija pomoću regularnih izraza i prikazuje korisniku sa desne strane polja šablon kako to ispravno da uradi. Ako je korisnik pogrešno popunio podatke ispisaće se i greška klikom na taster "Napravi račun". Usled dobro popunjene forme klikom na taster "Napravi račun" ispisaće se poruka o uspešnom otvaranju računa sa korisničkim PIN-om kojeg korisnik dalje koristi za logovanje na svoj račun. Dati račun se smešta kao objekat u nizu accounts.

Klikom na taster "Imate račun?" forma za registraciju se sakriva a forma za logovanje prikazuje korisniku.



Forma za logovanje je dinamički ispisana u JavaScriptu. Polja za unos podataka se proveravaju regularnim izrazima od sintaksin grešaka, dok se takođe polje za pin proverava da li je pin ispravan za korisnikovo ime upisano u polje iznad. Usled pravilno napisanih podataka taster "Uloguj se" neće

ispisivati grešku. Taster "Napravi račun" sakriva formu za logovanje I korisniku prikazuje formu za registraciju.

| Početna | | | |
|---------|--|----|--|
| Uld | ogujte se na svoj rači | un | |
| | Unesite puno ime Unesite dobijeni PIN Uloguj se Napravi račun | | |

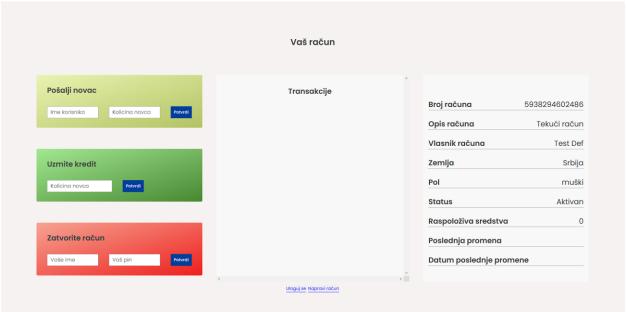
Ulsed otvaranja računa i pravilnog ispisivanja podataka u formi za logovanje klikom na taster "Uloguj se" sakriva sa forma za logovanje i prikazuje se prozor sa korisnikovim podacima i operacijama računa.

Operacijom "Pošalji novac", ako je ispravno uneto ime korisnika kome se šalje novac i količina novca, klikom na taster "Potvrdi" šalje izabranom korisniku data svota novca koja se smešta u niz transactions objekta izabranog korisnika. Takođe oduzeta svota novca se smešta kao negativna vrednost u niz transactions objekta trenutnog korisnika. Blok "Transakcije" će prikazati oduzetu iliti dodatu svotu novca. Blok sa informacijama računa će se menjati u skladu sa dešavanjima.

Operacijom "Uzmite kredit", ako je ispravno uneta količina novca, data svota klikom na taster "Potvrdi" će se dodati u niz transactions objekta trenutnog korisnika. Blok "Transakcije" će prikazati dodatu svotu novca. Blok sa informacijama računa će se menjati u skladu sa dešavanjima.

Operacijom "Zatvorite račun", ako je ispravno uneto ime i pin trenutnog korisnika klikom na taster "Potvrdi" obrisaće se korisnikov objekat iz niza accounts i prozor sa korisnikovim informacijama će se sakriti dok će se forma za registraciju otvoriti.

Dva tastera na dnu strane "Uloguj se" i "Napravi račun" će klikom na jedno od njih sakriti prozor sa informacijama korisnika i prikazati formu za logovanje iliti formu za registraciju.



3. Kod

3.1 HTML

3.1.1 Index.html

```
name="keywords"
     content="Mln, banka, elektronsko bankarstvo, bankovne operacije, orvaranje
računa preko inteneta, kamatne stope, krediti"
   <meta name="author" content="Obrad Pualić-Radujko" />
   <link rel="stylesheet" type="text/css" href="assets/css/style.css" />
   <link rel="stylesheet" type="text/css" href="assets/css/responsive.css" />
   <title>Mln Vaša Banka</title>
   <script
     src="https://kit.fontawesome.com/ad3346f46f.js"
     crossorigin="anonymous"
   ></script>
   <link rel="shortcut icon" href="assets/img/icon.png" type="image/png" />
  </head>
  <body>
   <header>
     <nav class="nav">
       <a href="index.html"</pre>
         ><img src="assets/img/logo.png" alt="Mln bank logo picture"</pre>
       /></a>
       <div class="nav coll">
         <div class="collapsing nav"><i class="fa-solid fa-bars"></i></div>
         <div class="exit coll nav"><i class="fa-solid fa-x"></i></div>
         </div>
     </nav>
     <div id="header info">
       <h1>Dobrodošli u MLN banku</h1>
        <h3>Banka sa puno mogućnosti i funkcijom elektronskog bankarstva</h3>
       <button class="btn text btn scroll to">Pročitaj više ↓
     </div>
   </header>
     <!-- Section 1: Features start -->
     <section id="section 1" class="section section features">
       <div class="section title">
         <h2>Mogućnosti</h2>
         <h3>Sve što vam je potrebno u modernoj banci i više.</h3>
```

```
<div id="features">
 </div>
</section>
<!-- Section 2: Operations start -->
<section id="section 2" class="section section operations">
 <div class="section title">
    <h2>Operacije</h2>
    <h3>Moguće operacije na vašem računu.</h3>
 </div>
  <div id="operations">
 </div>
</section>
<section id="section__3" class="section">
 <div class="section title">
    <h2>Utisci</h2>
      Dosta ljudi se već učlanilo u našu banku. Olakšaj sebi život i
      otvori svoj račun već danas.
   </h3>
  </div>
  <div id="slider">
    <div class="slide slide 1">
    </div>
    <div class="slide slide 2">
    </div>
    <button class="slider_btn slider_btn__left">&lt;</button>
    <button class="slider btn slider btn right">&gt;</putton>
    <div class="dots"></div>
  </div>
</section>
<section id="section 4" class="section">
 <div class="section title">
   <h2>Autor</h2>
 </div>
  <div id="author_container">
   <img
```

```
src="assets/img/my-img.jpg"
        alt="Picture of the web site author"
      <div id="author info container">
        <div id="author_info">
          <h5>0 meni</h5>
          <span class="highlight">Ime:</span> Obrad
          <span class="highlight">Prezime:</span> Pualić-Radujko
          <span class="highlight">Rođen:</span> 10.oct 2022
          <span class="highlight">Studiram:</span> ICT
          <span class="highlight">Telefon:</span> 011 2345675
        </div>
        <div id="author social media">
          <h5>Mreže</h5>
          <a href="https://www.facebook.com/" target=" blank"</pre>
            ><i class="fa-brands fa-facebook"></i</pre>
          <a href="https://www.instagram.com/" target="_blank"</pre>
            ><i class="fa-brands fa-instagram"></i</pre>
          <a href="https://www.linkedin.com/" target=" blank"</pre>
            ><i class="fa-brands fa-linkedin"></i</pre>
          <a href="https://www.twitter.com/" target=" blank"</pre>
            ><i class="fa-brands fa-square-twitter"></i</pre>
          <a href="https://www.gmail.com/" target=" blank"</pre>
            ><i class="fa-solid fa-envelope"></i</pre>
          ></a>
        </div>
      </div>
    </div>
  </section>
</main>
<footer>
  <div class="footer links">
    <a href="#section__1">Mogućnosti</a>
    <a href="#section__2">Operacije</a>
    <a href="#section 3">Utisci</a>
    <a href="#section 4">Autor</a>
  </div>
  Copyright © 2022 Obrad Pualić-Radujko
  <div class="footer_links">
    <a href="assets/xml/rss.xml">rss</a>
```

3.1.2 Account.html

```
<!DOCTYPE html>
<html Lang="rs">
   <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <meta name="description" content="Vaš Mln bankovni račun." />
    <meta
     name="keywords"
      content="Bankovne operacije, bankovni račun, moj račun, slanje novc,
dizanje kredita, zatvaranje računa, pregled transakcija, informacije o računu"
    <meta name="author" content="Obrad Pualić-Radujko" />
    <link rel="stylesheet" type="text/css" href="assets/css/style.css" />
    <link rel="stylesheet" type="text/css" href="assets/css/responsive.css" />
    <title>Mln Vaša Banka</title>
    <script
      src="https://kit.fontawesome.com/ad3346f46f.js"
     crossorigin="anonymous"
    ></script>
    <link rel="shortcut icon" href="assets/img/icon.png" type="image/png" />
  </head>
  <body>
    <div id="home">
      <a href="index.html"><h1>Početna</h1></a>
```

```
</div>
<main class="main account">
 <div id="register_form">
   <h2>Napravite račun</h2>
    <div class="form_container">
      <form
        action="#"
        method="post"
        name="reg form name"
        id="reg_form__id"
        <div class="form_row reg_input__container"></div>
        <div class="form row reg input container"></div>
        <div class="form_row reg_input__container"></div>
        <div class="form row reg rb container">
          <h3>Pol:</h3>
        </div>
        <div class="form row reg ddl container"></div>
        <button class="register_btn">Napravi račun</button>
        <span id="register error"></span>
        <button class="login_btn">Imate račun?</button>
      </form>
    </div>
 </div>
 <div id="login form" class="hidden">
    <h2>Ulogujte se na svoj račun</h2>
    <div class="form_container">
      <form
        action="#"
        method="post"
        name="log form name"
        id="log_form__id"
        <div class="form_row reg_input__container"></div>
        <div class="form_row reg_input__container"></div>
        <button class="login_btn_acc">Uloguj se</button>
        <span id="login_error"></span>
        <button class="register_btn_acc">Napravi račun</button>
      </form>
    </div>
 </div>
  <div id="account_info" class="hidden">
   <h3>Vaš račun</h3>
```

```
<div id="info">
          <div id="operations btns">
            <div class="operations block transport"></div>
            <div class="operations_block loan"></div>
            <div class="operations block close"></div>
          </div>
          <div id="transaction info">
            <h4>Transakcije</h4>
            <div id="transactions display">
            </div>
          </div>
          <div id="account stats">
          </div>
        </div>
        <button class="login_btn_acc-2">Uloguj se</button>
        <button class="register_btn_acc-2">Napravi račun</button>
      </div>
    </main>
    <footer>
      <div class="footer links">
        <a href="#section 1">Mogućnosti</a>
        <a href="#section__2">Operacije</a>
        <a href="#section 3">Utisci</a>
        <a href="#section 4">Autor</a>
      </div>
      Copyright © 2022 Obrad Pualić-Radujko
      <div class="footer links">
        <a href="assets/xml/rss.xml">rss</a>
        <a href="assets/xml/sitemap.xml">sitemap</a>
        <a href="assets/css/styles.rar">css</a>
        <a href="Dokumentacija.pdg">dokumentacija</a>
      </div>
    </footer>
    <script src="https://code.jquery.com/jquery-3.6.1.min.js" integrity="sha256-</pre>
o88AwQnZB+VDvE9tvIXrMQaPlFFSUTR+nldQm1LuPXQ=" crossorigin="anonymous"></script>
    <script src="assets/js/main.js" type="text/javascript"></script>
  </body>
</html>
```

3.2 CSS

3.2.1 Style.css

```
@import
url('https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,300;0,400;0,500
;0,600;1,400;1,500;1,600&display=swap');
:root {
  --Primary: #328533;
  --Secondary: #acc164;
  --Tertiary: #ced27e;
  --Text: #444;
  --Background__body: #f8f2f2;
  --Background__container: #f8f8f8;
  --Border color: #9d9d9d;
  --Primary_color__gradient: linear-gradient(to top left, #328533, #90e591);
  --Secondary color gradient: linear-gradient(to top left, #acc164, #e3f3b1);
  --Red_color__gradient: linear-gradient(to top left, #f74311, #fba992);
  padding: 0;
 margin: 0;
  font-family: 'Poppins', sans-serif;
  box-sizing: border-box;
  color: var(--Text);
 text-decoration: none;
body {
 background-color: var(--Background_body);
  font-size: 1.4rem;
ul {
  list-style-type: none;
```

```
transition: filter 0.5s;
header {
 height: 100vh;
 background-image: url(../img/cover.jpg);
 background-size: cover;
 background-position: center;
nav {
 margin: 0 auto;
 display: flex;
 justify-content: space-between;
 align-items: center;
 padding: 0 6rem;
  z-index: 100;
nav img {
 width: 50%;
  opacity: 1;
nav ul {
  display: flex;
nav ul li {
 margin-right: 20px;
  padding: 1rem;
nav ul li:last-child {
 margin-right: 0px;
 background-color: var(--Primary);
  border-radius: 10rem;
nav ul li:last-child a {
  color: var(--Background__container);
```

```
#header_info {
  width: 50%;
  height: 90vh;
 padding: 0 6rem;
  display: flex;
 flex-direction: column;
 justify-content: center;
#header_info h1 {
  font-size: 3.5rem;
  line-height: 1.35;
 padding-bottom: 2rem;
 color: #fff;
  text-shadow: 3px 3px #444;
#header_info h3 {
  font-size: 2.4rem;
  font-weight: 500;
 padding-bottom: 3rem;
  color: #fff;
  text-shadow: 2px 2px #444;
#header_info img {
 width: 100%;
 grid-column: 2 / 3;
  grid-row: 1 / span 4;
 transform: translateY(-3rem);
#header_info .btn_text {
 width: 25%;
  display: inline-block;
 background: none;
  font-size: 1.7rem;
  font-family: inherit;
 font-weight: 500;
  color: var(--Primary);
  border: none;
  cursor: pointer;
  transition: all 0.3s;
```

```
.nav__sticky {
  position: fixed;
  background-color: rgba(255, 255, 255, 0.95);
 width: 100vw;
.section {
  padding: 10rem 5rem;
 border-top: 1px solid var(--Border_color);
 transition: transform 1s, opacity 1s;
.section title {
 text-align: center;
 margin: 0 auto 8rem auto;
.section title h2 {
 font-size: 1.8rem;
 font-weight: 600;
 text-transform: uppercase;
 color: var(--Primary);
 margin-bottom: 1rem;
.section_title h3 {
 font-size: 3rem;
 line-height: 1.3;
 font-weight: 500;
.section_hidden {
 opacity: 0;
 transform: translateY(10rem);
/* Features */
.section_features {
 display: flex;
 flex-direction: column;
#features {
 display: flex;
```

```
justify-content: space-between;
.features feature {
  display: flex;
 flex-direction: column;
 text-align: center;
 padding: 0 10px;
.features_feature i {
  font-size: 2rem;
  display: flex;
  justify-content: space-evenly;
  margin: 0 auto 1.2rem;
  align-items: center;
  background-color: var(--Tertiary);
 width: 5rem;
 height: 5rem;
 border-radius: 50%;
.features_feature h5 {
  font-size: 1.6rem;
.features_feature p {
 width: 70%;
 margin: 1.2rem auto;
 text-align: center;
.features_feature img {
 width: 80%;
 margin: 0 auto;
#operations {
  display: flex;
 width: 60%;
 margin: 0 auto;
 height: 450px;
#operations_tab__container {
```

```
display: flex;
 flex-direction: column;
.operations_tab {
 height: 33.4%;
 border: none;
 background-color: var(--Border_color);
 cursor: pointer;
 font-size: 1.3rem;
 font-family: inherit;
 transition: all 0.3s;
 width: 15rem;
 font-weight: 500;
 border-right: 2px solid black;
.operations_tab__active {
 background-color: var(--Background container);
 border-left: 2px solid black;
 border-top: 2px solid black;
 border-bottom: 2px solid black;
 border-right: 1px;
.operations content {
 display: none;
 padding: 3rem 0 5rem 3rem;
 background-color: var(--Background container);
 border-top: 2px solid black;
 border-bottom: 2px solid black;
 border-right: 2px solid black;
.operations_content__active {
 display: flex;
 flex-direction: column;
 row-gap: 3rem;
.operations_content h5 {
 margin: 2rem 0 0 0;
 font-size: 2rem;
 font-weight: 500;
```

```
#slider {
  max-width: 100rem;
  height: 30rem;
 margin: 0 auto;
 position: relative;
  overflow: hidden;
.slide {
  position: absolute;
  top: 0;
 width: 100%;
  height: 30rem;
  display: flex;
  align-items: center;
  justify-content: center;
 transition: transform 1s;
 background-color: var(--Background__container);
.testimonial {
 width: 65%;
 position: relative;
.testimonial h5 {
 font-size: 2.25rem;
 font-weight: 500;
 margin-bottom: 1.5rem;
  text-align: center;
.testimonial_text {
 text-align: center;
 font-size: 1.7rem;
  margin-bottom: 3.5rem;
  color: var(--Text);
.testimonial_author {
 font-style: normal;
 display: flex;
 justify-content: center;
```

```
column-gap: 2rem;
.testimonial photo {
 grid-row: 1 / span 2;
 width: 6.5rem;
 border-radius: 50%;
.testimonial h6 {
 font-size: 1.7rem;
 font-weight: 500;
 align-self: end;
 margin: 0;
.testimonial p {
  font-size: 1.5rem;
.slider_btn {
 position: absolute;
 top: 40%;
 z-index: 10;
 border: none;
 background: var(--Tertiary);
 font-family: inherit;
 color: var(--Text);
 border-radius: 50%;
 height: 5.5rem;
 width: 5.5rem;
 font-size: 3.25rem;
 cursor: pointer;
.slider_btn__left {
 left: 6%;
.slider_btn__right {
 right: 6%;
.dots {
 position: absolute;
```

```
bottom: 5%;
  left: 50%;
 transform: translateX(-50%);
  display: flex;
.dots dot {
 cursor: pointer;
 border: none;
 background-color: #c4c3c3;
 height: 1rem;
 width: 1rem;
 border-radius: 50%;
 margin-right: 1.75rem;
  transition: all 0.3s;
.dots_dot__active {
 background-color: var(--Text);
  opacity: 1;
#author_container {
  display: flex;
 justify-content: space-between;
 width: 65%;
 margin: 0 auto;
#author_container img {
 width: 18rem;
 height: 18rem;
 border-radius: 50%;
 margin-left: 6rem;
#author_info__container {
 display: flex;
 width: 50%;
 justify-content: flex-end;
 font-size: 2rem;
 margin-top: 0.5rem;
```

```
#author_info {
  width: 70%;
  display: flex;
  flex-direction: column;
#author_info p {
  margin-top: 1.1rem;
  font-size: 1.5rem;
  font-style: italic;
.highlight {
  font-weight: 700;
 font-style: normal;
  color: var(--Primary);
#author_social__media {
  width: 30%;
  margin-left: 3rem;
  display: flex;
  flex-direction: column;
  text-align: center;
#author_social__media i {
  margin-top: 1rem;
  font-size: 1.6rem;
#home{
  text-align: center;
.main_account{
  margin: 8rem auto;
.hidden{
  display: none;
```

```
#register_form, #login_form{
  text-align: center;
 width: 50%;
 margin: 0 auto;
  background-color: var(--Background__container);
  padding: 2.5rem 3rem;
.form container{
 padding: 2.5rem;
 width: 70%;
 margin: 0 auto;
#register_form form, #login_form form{
  display: flex;
 flex-direction: column;
  font-size: 1.3rem;
form input[type='text'], input[type='tel'], input[type='email'], form
input[type='password']{
 margin-top: 1.4rem;
 padding: 1rem 0.6rem;
  border: solid 1px var(--Border_color);
 font-size: 1rem;
 width: 80%;
.form_row input[type='radio'], select{
margin-top: 1rem;
margin-bottom: 1rem
form select{
 padding: 0.8rem 0.4rem;
  font-size: 1rem;
form button{
 width: 35%;
 margin: 1rem auto 0 auto;
 padding: 0.8rem;
 font-size: 1rem;
 font-weight: 500;
```

```
display: block;
  border-radius: 4px;
  border: none;
  cursor: pointer;
.login btn, .login btn acc{
  background-image: var(--Secondary_color__gradient);
.register_btn, .register_btn_acc {
  background-image: var(--Primary color gradient);
.login_btn_acc-2,.register_btn_acc-2{
  border: none;
  color: blue;
  border-bottom: 1px solid blue;
  cursor: pointer;
.form_row{
  position: relative;
.form_row span{
  position: absolute;
 font-size: 0.8rem;
  bottom: 1.3rem;
  right: 4rem;
  color: red;
#register_error{
  color: red;
.form_row span i{
  color: green;
#account_info{
  text-align: center;
```

```
#info{
  display: flex;
  justify-content: space-between;
  padding: 0 7rem;
  margin-top: 5rem;
#operations_btns{
  display: flex;
 flex-direction: column;
 width: 30%;
.operations block{
  display: flex;
 flex-direction: column;
  margin-top: 4rem;
  padding: 1rem 2rem;
  border-radius: 4px;
 height: 10rem;
 justify-content: space-around;
.transport{
 margin-top: 0;
  background-image: var(--Secondary_color__gradient);
.Loan{
  background-image: var(--Primary_color__gradient);
.close{
  background-image: var(--Red_color__gradient);
.operations_block h4{
  text-align: start;
.operation_block__row{
 display: flex;
  justify-content: start;
```

```
.operation_block__row input{
  margin-right: 2rem;
  margin-top: 0.4rem;
  padding: 0.3rem 0.6rem;
  border: solid 1px var(--Border_color);
  font-size: 1rem;
 width: 45%;
.operation_btn{
 border: none;
  padding: 0.3rem 0.6rem;
 font-size: 0.8rem;
 margin-top: 0.4rem;
  background-color: #023f9b;
  color: #fff;
  font-weight: 500;
  cursor: pointer;
#transaction_info{
  padding: 2rem 1rem;
 width: 35%;
 background-color: var(--Background container);
  overflow: scroll;
#transaction info h4{
  margin-bottom: 2rem;
.transaction {
 margin-top: 1.5rem;
 border-bottom: 1px solid var(--Border color);
 display: flex;
 justify-content: space-between;
#account_stats{
 width: 30%;
 background-color: var(--Background container);
 padding: 3rem 1rem;
.stats row{
```

```
display: flex;
  margin-top: 1.5rem;
  justify-content: space-between;
  border-bottom: 1px solid var(--Border_color);
footer {
 height: 20vh;
 background-color: var(--Text);
  display: flex;
 text-align: center;
 margin: 0 auto;
 justify-content: space-around;
  align-items: center;
 font-size: 1.4rem;
  color: #ffffff;
footer .footer_links {
 width: 25%;
 display: flex;
 flex-direction: column;
.footer links i {
 font-size: 1.6rem;
 margin-right: 1rem;
  color: #ffffff;
.footer_links i:last-child {
 margin-top: 1rem;
.footer_links a {
 text-decoration: none;
  color: #ffffff;
.exit coll nav{
```

```
display: none;
}
.collapsing_nav i, .exit_coll__nav i{
  font-size: 2rem;
  cursor: pointer;
}
```

3.2.2 Responsive.css

```
@media screen and (max-width: 1629px) {
  .operations_content p {
    font-size: 1.2rem;
  .stats_row h4,
  .stats_row p, .stats_row span{
   font-size: 1.1rem;
 footer{
   height: auto;
@media screen and (max-width: 1543px) {
   font-size: 1.3rem;
   justify-content: space-around;
 nav img {
   width: 100%;
   margin-right: 0px;
 nav a:first-child {
   width: 20%;
 #header_info {
   width: 70%;
 #features {
   flex-wrap: wrap;
 #features i {
  margin: 2rem auto;
```

```
#features img {
   width: 40%;
 .form_row span {
   right: -4rem;
   color: red;
   width: 6rem;
@media screen and (max-width: 1427px) {
 #operations {
   width: 70%;
  .operations_content {
   padding-right: 1rem;
  .operations_content h5 {
   font-size: 1.8rem;
 #author_container {
   width: 95%;
 #info {
   flex-direction: column;
   padding: 0 3rem;
 #operations_btns {
   margin: 0 auto;
   flex-direction: row;
   justify-content: space-between;
   width: 98%;
  .operations block {
   margin-top: 0;
   width: 33%;
 #transaction_info {
   margin: 2rem auto;
 #account_stats {
   border-top: 2px solid #c4c4c4;
   margin: 2rem auto 0;
```

```
@media screen and (max-width: 1293px) {
  .testimonial text {
   margin-bottom: 3rem;
   font-size: 1.5rem;
  .dots:last-child {
   margin-right: none;
  #account stats,
 #transaction_info {
   width: 60%;
@media screen and (max-width: 1253px) {
  #header_info {
   width: 90%;
  #header_info h1 {
   font-size: 2.5rem;
  #header_info h3 {
    font-size: 1.8rem;
  #header info .btn text {
    font-size: 1.2rem;
  #operations {
   width: 80%;
   flex-direction: column;
  #operations tab container {
    flex-direction: row;
  .operations tab {
   height: 4.5rem;
   width: 100%;
   border-bottom: 2px solid black;
    border-right: none;
  .operations_tab__active {
   border-bottom: none;
    border-right: 2px solid black;
  .operations_content {
  padding: 2rem;
```

```
border-top: none;
    border-left: 2px solid black;
    border-top: none;
    height: 500px;
  .operations_content h5 {
    font-size: 1.8rem;
  #section 3 {
   padding: 10rem 1rem;
  .testimonial text {
   font-size: 1.5rem;
  #register_form,
 #login_form {
   width: 75%;
@media screen and (max-width: 1104px) {
  #section 4 {
    padding: 10rem 1rem;
 #author_container img {
    width: 14rem;
   height: 14rem;
  #operations_btns {
   flex-direction: column;
  .operations_block {
   width: 60%;
   margin: 1.5rem auto 0;
@media screen and (max-width: 907px) {
   flex-direction: column;
 nav img {
   width: 85%;
 nav a:first-child {
   width: 40%;
  text-align: center;
```

```
width: 100%;
   justify-content: space-around;
 .slider_btn {
   height: 4rem;
   width: 4rem;
   font-size: 3rem;
  .testimonial h5 {
   font-size: 1.8rem;
  .testimonial text {
   font-size: 1.3rem;
   margin-bottom: 1rem;
  .form_container {
   width: 100%;
@media screen and (max-width: 801px) {
   padding: 0.1rem 2rem;
   flex-wrap: wrap;
   justify-content: space-around;
 #header_info {
   width: 100%;
   text-align: center;
 #header info button {
   margin: 0 auto;
 #header_info h1 {
   font-size: 2.3rem;
   text-shadow: 5px 3px #444;
 #header_info h3 {
   font-size: 1.6rem;
   text-shadow: 4px 2px #444;
 #header_info .btn_text {
```

```
font-size: 1.2rem;
 background-color: white;
 border-radius: 0.8rem;
.section_title h3 {
 font-size: 2.4rem;
#features i {
 font-size: 1.6rem;
#features img {
 width: 60%;
.features_feature p {
 width: 90%;
#operations {
 width: 95%;
#author_container {
 flex-direction: column;
#author_container img {
 width: 12rem;
 height: 12rem;
 margin: 0 auto 2rem auto;
#author_info__container {
 margin: 0 auto;
 width: 90%;
.section_title {
 margin-bottom: 4rem;
footer {
 flex-direction: column;
 padding: 2rem 0;
.footer_links {
 width: 100%;
.operations_block,
#transaction_info,
#account_stats {
width: 90%;
```

```
@media screen and (max-width: 639px) {
  #section__2 {
   padding: 10rem 1rem;
  .operations_content {
   height: auto;
  .testimonial {
   width: 80%;
  .slider_btn__right {
   right: 1%;
  .slider_btn__left {
   left: 1%;
  .testimonial_photo {
   width: 5.5rem;
  .testimonial h6 {
   font-size: 1.4rem;
  .testimonial p {
   font-size: 1.1rem;
  .slider_btn {
   height: 3rem;
   width: 3rem;
   font-size: 1.5rem;
  .dots_dot {
   width: 0.8rem;
   height: 0.8rem;
  .dots_dot:last-child {
   margin-right: 0;
  #register_form,
  #login_form {
   width: 97%;
  .form_container {
  padding: 0;
```

```
form button {
   width: 70%;
 .form_row span {
   right: -1rem;
   width: 3rem;
@media screen and (max-width: 527px) {
 nav a:first-child {
   width: 60%;
   flex-direction: row;
   align-items: baseline;
   padding: 0 0rem;
   justify-content: space-between;
   display: none;
   flex-direction: column;
 .nav coll {
   background-color: white;
   border-radius: 0 0 0 40px;
   padding: 1rem;
  .collapsing nav {
   text-align: end;
  .exit_coll__nav {
   text-align: end;
  .collapsing_nav i,
  .exit_coll__nav i {
   padding: 1rem;
   border-radius: 40%;
  .nav_coll {
   position: absolute;
   top: 0;
   right: 0;
 #header_info {
```

```
padding: 0 0.5rem;
.section_title {
  margin-bottom: 3rem;
.section_title h3 {
  font-size: 1.8rem;
#features img {
 width: 80%;
.features_feature p {
 width: 100%;
.operations_content h5 {
 margin-top: 1rem;
.operations_content p {
 font-size: 1rem;
.testimonial {
  width: 70%;
.testimonial h5 {
  font-size: 1.4rem;
#author_container img {
 width: 8rem;
 height: 8rem;
 margin: 0 auto 2rem auto;
#author_info {
 margin: 0 auto;
#author_info__container {
 width: 97%;
 flex-direction: column;
  text-align: center;
#author_social__media {
 width: 95%;
  margin-top: 2rem;
 margin-left: 0;
  display: flex;
  flex-direction: row;
```

```
justify-content: space-between;
   margin: 0 auto;
 #info {
    padding: 1rem 0;
@media screen and (max-width: 426px) {
 #section__1 {
   padding: 7rem 1rem;
  .section title {
   margin-bottom: 1rem;
  .section_title h3 {
   font-size: 1.8rem;
  #features img {
   width: 80%;
  .features_feature p {
   width: 100%;
  .testimonial author {
   margin-bottom: 3rem;
 #slider {
   height: 35rem;
  .slide {
   height: 35rem;
  .stats_row h4,
   font-size: 0.8rem;
  .operations_block{
    padding: 0.2rem;
  .operations_block input{
   width: 60%;
```

3.3 JavaScript

3.3.1 Main.js

```
"use strict";
const url = window.location.href;
if (url == `https://obradpr.github.io/MlnBank/` || url ==
 https://obradpr.github.io/MlnBank/index.html`) {
 const $navUl = $(`.nav_meni__ul`);
 const $featuresContainer = $(`#features`);
 const $operationsContainer = $(`#operations`);
  const slides = document.querySelectorAll(`.slide`);
  const dynamicallyNavMeni = function () {
   let navMeni = [
     { href: `#section__1`, naziv: `Mogućnosti` },
     { href: `#section__2`, naziv: `Operacije` },
     { href: `#section__3`, naziv: `Utisci` },
     { href: `#section__4`, naziv: `Autor` },
     { href: `account.html`, naziv: `Vaš Račun` },
    for (let meniObj of navMeni) {
     $navUl.append(
       `
       <a href="${meniObj.href}" class="nav__link">${meniObj.naziv}</a>
```

```
dynamicallyNavMeni();
  const dynamicallyFeatures = function () {
    let features = [
        icon: `fa-solid fa-display`,
        h5: `Elektronsko bankarstvo`,
        info: `Vaša Mln banka nudi mogućnost elektronskog bankarstva. Već danas
možete otvoriti vaš račun od kuće i slati ili primati novac od prijatelja, ili
podići kredit.`,
        img: `online_banking.jpg`,
        imgAlt: `Elektronsko bankarstvo`,
        icon: `fa-solid fa-arrow-up-right-dots`,
        h5: `Nadledajte vaš napredak`,
        info: `Prikaz transkacija, dobitaka ili gubitaka novca je olakšano.
Pravite prave odluke u vezi sa novcem. Nadgledajte napredak Vašeg račuma.,
        img: `money_grow.jpg`,
        imgAlt: `Životno naprednovanje`,
        icon: `fa-regular fa-id-card`,
        h5: `Besplatna kartica`,
        info: `Uz otvaranje računa u našoj banci dobijate besplatno debitnu dina
karticu i visa karticu. Nakon toga internet postaje vaša prodavnica i kartica vaš
novčanik.,
        img: `free_debit_card.jpg`,
        imgAlt: `Besplatna debitna kartica`,
    for (let feature of features) {
      let featureClassCont = document.createElement(`div`);
      featureClassCont.setAttribute(`class`, `features_feature`);
      let iconEl = document.createElement(`i`);
      let h5 = document.createElement(`h5`);
      let p = document.createElement(`p`);
      let img = document.createElement(`img`);
      iconEl.setAttribute(`class`, feature.icon);
```

```
h5.innerHTML = feature.h5;
   p.innerHTML = feature.info;
   img.setAttribute(`src`, `assets/img/${feature.img}`);
   img.setAttribute(`alt`, feature.imgAlt);
   featureClassCont.appendChild(iconEl);
   featureClassCont.appendChild(h5);
   featureClassCont.appendChild(p);
   featureClassCont.appendChild(img);
   $featuresContainer.append(featureClassCont);
dynamicallyFeatures();
const dynamicallyOperations = function () {
 const createTabBtns = function () {
   Let tabBtnTxt = [`Slanje Novca`, `Krediti`, `Zatvaranje Računa`];
   let tabContainer = document.createElement(`div`);
   tabContainer.setAttribute(`id`, `operations_tab__container`);
   for (let [i, btn] of tabBtnTxt.entries()) {
     let tabBtn = document.createElement(`button`);
     tabBtn.classList.add(`btn`);
     tabBtn.classList.add(`operations tab`);
      tabBtn.classList.add(`operations_tab__${i + 1}`);
     if (i === 0) {
       tabBtn.classList.add(`operations_tab__active`);
      tabBtn.setAttribute(`data-tab`, `${i + 1}`);
      tabBtn.innerHTML = btn;
     tabContainer.appendChild(tabBtn);
   $operationsContainer.append(tabContainer);
 const createTabInfo = function () {
   let operations = [
       h5: `Pošaljite novac porodici ili prijatelju`,
```

```
info: `<b>Operacija slanja i primanja novca</b> će olakšati plaćanje
mesečnih računa, ili bilo kakvih drugih uplata upotrebom uplatnice, više nećete
morati da čekate u redovima.<br/>b>Razmena novca</b> sa vašim prijateljima,
porodicom ili poslovnim kolegama postaje prosta.,
          h5: `Podigni kredit sa najmanjom fiksnom kamatnom stopom`,
          info: `<b>Podignite kredit</b> slobodno uz najmanje kamatne sotope već
danas. Kupite dom ili auto iz vaših snova.<br/><br/>cu>Kamatna stopa</u> za tromesečnu
otplatu je : <b>3%</b><br/><br/>><u>Kamatna stopa</u> za šestomesečnu otplatu je :
<b>5%</b><br/><u>Kamatna stopa</u> za jedno ili dugo godišnju otplatu je :
<b>7%</b>`,
          h5: `Zatvaranjne računa nikad lakše`,
          info: `<b>Ne treba vam račun više</b>, bez ikakve muke ga zatvorite
online.<br/><br/>b>Sve što vam je potrebno</b> jesu Vaše <u>ime</u> i <u>pin</u> koji
dobijate pri otvaranju računa.<br/><b>Ulsed</b> neke greške pri zatvaranju računa
pozvati call centar MLN Banke : <b>+381 113221127</b>
      for (let i = 0; i < operations.length; i++) {</pre>
        let operationContainerClass = document.createElement(`div`);
        Let h5 = document.createElement(`h5`);
        let p = document.createElement(`p`);
        operationContainerClass.classList.add(`operations content`);
        operationContainerClass.classList.add(`operations_content__${i + 1}`);
        if (i === 0) {
          operationContainerClass.classList.add(`operations content active`);
        h5.innerHTML = operations[i].h5;
        p.innerHTML = operations[i].info;
        operationContainerClass.appendChild(h5);
        operationContainerClass.appendChild(p);
        $operationsContainer.append(operationContainerClass);
```

```
createTabBtns();
   createTabInfo();
  dynamicallyOperations();
  const dynamicallyTestimonial = function () {
    let testimonial = [
        h5: `Konačno moderne bankarske usluge.`,
        info: `Već dugo godina tražim banku sa kvalitetnim i upotpunjenim
elektronskim bankarstvom.
      Usluge MLN banke su savrsene u poređennju sa drugim bankama.,
        authorImg: `author_1.jpg`,
        authorAlt: `Slika Marka Smijića`,
        authorName: `Marko Smijić`,
        authorCity: `Beograd`,
        h5: `Online otvaranje računa dosta olakšano.`,
        info: `Veoma lako snalaženje i otvaranje računa. Zadovoljna sam uslugama
koje banka pruža.
      Sve preporuke!`,
        authorImg: `author_2.jpg`,
        authorAlt: `Slika Elene Pajkić`,
        authorName: `Elena Pajkić`,
        authorCity: `Niš`,
    for (let [i, slide] of slides.entries()) {
      let testimonialDiv = document.createElement(`div`);
      testimonialDiv.setAttribute(`class`, `testimonial`);
      let h5 = document.createElement(`h5`);
      h5.innerHTML = testimonial[i].h5;
      testimonialDiv.appendChild(h5);
      let testiTxt = document.createElement(`div`);
      testiTxt.setAttribute(`class`, `testimonial_text`);
      testiTxt.innerHTML = testimonial[i].info;
      testimonialDiv.appendChild(testiTxt);
      let author = document.createElement(`div`);
      author.setAttribute(`class`, `testimonial_author`);
      let img = document.createElement(`img`);
```

```
img.setAttribute(`src`, `assets/img/${testimonial[i].authorImg}`);
    img.setAttribute(`alt`, testimonial[i].authorAlt);
    img.setAttribute(`class`, `testimonial_photo`);
    author.appendChild(img);
    let authorInfo = document.createElement(`div`);
    authorInfo.setAttribute(`class`, `author info`);
    let h6 = document.createElement(`h6`);
    h6.innerHTML = testimonial[i].authorName;
    authorInfo.appendChild(h6);
    let p = document.createElement(`p`);
    p.innerHTML = testimonial[i].authorCity;
    authorInfo.appendChild(p);
    author.appendChild(authorInfo);
    testimonialDiv.appendChild(author);
    slide.appendChild(testimonialDiv);
dynamicallyTestimonial();
const $btnScrollTo = $(`.btn scroll to`);
const $section1 = $(`#section__1`);
const $nav = $(`.nav`);
const $header = $(`header`)[0];
const navHeight = $nav[0].getBoundingClientRect().height;
const $sections = $(`.section`);
const $operationsTabsContainer = $(`#operations_tab__container`);
const $operationTabs = $(`.operations_tab`);
```

```
const $operationsContent = $(`.operations content`);
const $btnLeft = $(`.slider btn left`);
const $btnRight = $(`.slider_btn__right`);
const $dotContainer = $(`.dots`);
const $collapsingBtn = $(`.collapsing_nav`);
const $exitCollapsingBtn = $(`.exit coll nav`);
$collapsingBtn.css(`display`,`none`);
const smoothScrolling = function () {
 $btnScrollTo.click(function () {
   $section1[0].scrollIntoView({ behavior: `smooth` });
 $(`.nav_links`).click(function (e) {
   if (e.target.classList.contains(`nav__link`)) {
     let id = e.target.getAttribute(`href`);
     if (id === `account.html`) {
       e.preventDefault();
       document.querySelector(id).scrollIntoView({ behavior: `smooth` });
smoothScrolling();
const navHoverEffect = function () {
 const handleHover = function (e, opacity) {
   if (e.target.classList.contains(`nav__link`)) {
      let link = e.target;
      let siblings = link.closest(`.nav`).querySelectorAll(`.nav link`);
      let logo = link.closest(`.nav`).querySelector(`img`);
      siblings.forEach((et) => {
       if (el !== link) {
         el.style.opacity = opacity;
```

```
logo.style.opacity = opacity;
 $nav.mouseover(function (e) {
    handleHover(e, 0.5);
 $nav.mouseout(function (e) {
    handleHover(e, 1);
navHoverEffect();
const stickyNavBar = function () {
 let options = {
    root: null,
   threshold: 0,
    rootMargin: `-${navHeight}px`,
 let stickyNav = function (entries) {
    const [entry] = entries;
   if (!entry.isIntersecting) {
      $nav.addClass(`nav__sticky`);
      $nav.removeClass(`nav__sticky`);
 Let headerObserver = new IntersectionObserver(stickyNav, options);
 headerObserver.observe($header);
stickyNavBar();
const elAppearOnScroll = function () {
 let options = {
    root: null,
    threshold: 0.2,
```

```
let elAppear = function (entries, observer) {
    let [entry] = entries;
    if (!entry.isIntersecting) return;
    if (entry.isIntersecting) {
      entry.target.classList.remove(`section hidden`);
    observer.unobserve(entry.target);
  let sectionObserver = new IntersectionObserver(elAppear, options);
 $sections.each(function (i) {
    sectionObserver.observe($sections[i]);
    $sections.addClass(`section_hidden`);
elAppearOnScroll();
const tabbedElement = function () {
 $operationsTabsContainer.click(function (e) {
    if (e.target.classList.contains(`operations tab`)) {
      $operationTabs.each(() =>
        $operationTabs.removeClass(`operations tab active`)
    $operationsContent.each(() =>
      $operationsContent.removeClass(`operations content active`)
    e.target.classList.add(`operations tab active`);
    $(`.operations_content__${e.target.dataset.tab}`).addClass(
      operations content active
tabbedElement();
const slider = function () {
 let curSlide = 0;
 const maxSlide = slides.length;
```

```
const createDots = function () {
 slides.forEach(function (_, i) {
   $dotContainer.append(
      `<button class="dots dot" data-slide="${i}"></button>`
const activeDot = function (slide) {
 $(`.dots_dot`).each(() => $(`.dots_dot`).removeClass(`dots_dot__active`));
 $(`.dots_dot[data-slide="${slide}"]`).addClass(`dots_dot__active`);
const goToSlide = function (slide) {
 slides.forEach(function (s, i) {
    s.style.transform = `translateX(${100 * (i - slide)}%)`;
 });
const nextSlide = function () {
 if (curSlide === maxSlide - 1) {
   curSlide = 0;
   curSlide++;
 goToSlide(curSlide);
 activeDot(curSlide);
const prevSlide = function () {
 if (curSlide === 0) {
   curSlide = maxSlide - 1;
   curSlide--;
 goToSlide(curSlide);
 activeDot(curSlide);
const init = function () {
 createDots();
 activeDot(0);
```

```
goToSlide(0);
 init();
 $btnRight.click(nextSlide);
 $btnLeft.click(prevSlide);
 document.addEventListener(`keydown`, function (e) {
   if (e.key === `ArrowLeft`) prevSlide();
   if (e.key === `ArrowRight`) nextSlide();
 $dotContainer.click(function (e) {
   if (e.target.classList.contains(`dots dot`)) {
      const slide = e.target.dataset.slide;
     goToSlide(slide);
     activeDot(slide);
slider();
const collapsingMeni = function () {
 $collapsingBtn.click(function () {
   $collapsingBtn.css(`display`, `none`);
   $exitCollapsingBtn.css(`display`, `block`);
   $(`.nav_meni__ul`).css(`display`, `block`);
 $exitCollapsingBtn.click(function () {
   $(`.nav_meni__ul`).css(`display`, `none`);
   $exitCollapsingBtn.css(`display`, `none`);
   $collapsingBtn.css(`display`, `block`);
 window.addEventListener(`resize`, function () {
    let width = $header.getBoundingClientRect().width;
   if (width >= 527) {
     $collapsingBtn.css(`display`, `none`);
     $(`.nav_meni__ul`).css(`display`, `flex`);
   if (width <= 526) {
     $collapsingBtn.css(`display`, `block`);
     $exitCollapsingBtn.css(`display`, `none`);
```

```
$(`.nav_meni__ul`).css(`display`, `none`);
  collapsingMeni();
Let curUser:
let validatePin;
let user = {};
Let acc = {};
let accounts = [];
if (url == `https://obradpr.github.io/MlnBank/account.html`) {
  const $selectContainer = $(`.reg_ddl__container`);
  const $radioContainer = $(`.reg_rb__container`);
  const $inputContainers = $(`.reg_input__container`);
  const $inputOperContainers = $(`.operations_block`);
  const $operTransport = $(`.transport`);
  const $operLoan = $(`.loan`);
  const $operClose = $(`.close`);
  const $accStatsContainer = $(`#account_stats`);
 function setAttributes(element, attributes) {
    Object.keys(attributes).forEach((attr) => {
      element.setAttribute(attr, attributes[attr]);
```

```
const dynamicallySelect = function () {
  const selectEl = document.createElement(`select`);
  selectEl.setAttribute(`id`, `country`);
  const intlOption = document.createElement(`option`);
  intlOption.setAttribute(`value`, 0);
  const intlOptionText = document.createTextNode(`Odaklen ste`);
  intlOption.appendChild(intlOptionText);
  selectEl.appendChild(intlOption);
  let countryNames = [
    `Srbija`,
    `Nemačka`,
    `USA`,
    `Hrvatska`,
    `Bosna`,
    `Crna Gora`,
    `Grčka`,
    `Makedonija`,
    `Mađarska`,
    `Bugarska`,
  for (let country of countryNames) {
    let optionTag = document.createElement(`option`);
    optionTag.setAttribute(`value`, country);
    let optionText = document.createTextNode(country);
    optionTag.appendChild(optionText);
    selectEl.appendChild(optionTag);
 $selectContainer.append(selectEl);
dynamicallySelect();
const dynamicallyRb = function () {
 let genders = [
```

```
key: `Muški`,
     value: `male`,
     key: `Ženski`,
     value: `female`,
 for (let gender of genders) {
   const labelEl = document.createElement(`label`);
   labelEl.setAttribute(`for`, gender.value);
   labelEl.setAttribute(`class`, gender.value + ` class`);
   const labelText = document.createTextNode(gender.key);
   labelEl.appendChild(labelText);
   $radioContainer.append(labelEl);
   const radioEl = document.createElement(`input`);
   radioEl.setAttribute(`type`, `radio`);
   radioEl.setAttribute(`name`, `gender`);
   radioEl.setAttribute(`id`, gender.value);
   radioEl.style.margin = `1rem 0.5rem`;
   $radioContainer.append(radioEl);
dynamicallyRb();
const dynamicallyInputs = function () {
 const dynamicallyReLogInputs = function () {
   let inputAttributes = [
       type: `text`,
       id: `full_name`,
       placeholder: `Unesite puno ime`,
       type: `tel`,
       id: `phone_num`,
       placeholder: `Unesite Vaš mobilni telefon`,
       type: `email`,
       id: `email_address`,
```

```
placeholder: `Unesite Vašu email adresu`,
     type: `text`,
     id: `full_name_login`,
     placeholder: `Unesite puno ime`,
     type: `password`,
     id: `pin`,
     placeholder: `Unesite dobijeni PIN`,
 let spanErrorsId = [
    `name_error`,
    `phone_error`,
    `email_error`,
    `username_error`,
    `pin error`,
 for (let i in inputAttributes) {
   const inputEl = document.createElement(`input`);
   setAttributes(inputEl, inputAttributes[i]);
   $inputContainers[i].append(inputEl);
    const spanEl = document.createElement(`span`);
    spanEl.setAttribute(`id`, spanErrorsId[i]);
   $inputContainers[i].append(spanEl);
const dynamicallyOperBlock = function () {
 let operInputs = [
     type: `text`,
     id: `transport_name`,
     placeholder: `Ime korisnika`,
     type: `number`,
     id: `transport_amount`,
```

```
placeholder: `Kolicina novca`,
    type: `number`,
    id: `loan_amount`,
    placeholder: `Kolicina novca`,
    type: `text`,
    id: `username close`,
    placeholder: `Vaše ime`,
    type: `password`,
   id: `pin_close`,
    placeholder: `Vaš pin`,
let btnAttr = [`operation_btn`, `transport_btn`, `loan_btn`, `close_btn`];
Let hTxt = [`Pošalji novac`, `Uzmite kredit`, `Zatvorite račun`];
let num = 0;
for (Let i = 0; i < $inputOperContainers.length; i++) {</pre>
  let operRow = document.createElement(`div`);
  operRow.setAttribute(`class`, `operation_block__row`);
  Let h4 = document.createElement(`h4`);
  h4.innerHTML = hTxt[i];
  $inputOperContainers[i].append(h4);
  while (num < operInputs.length) {</pre>
    if (num < 2) {
      let operInput = document.createElement(`input`);
      setAttributes(operInput, operInputs[num]);
      operRow.appendChild(operInput);
```

```
if (num === 1) {
    num++;
    let btnEl = document.createElement(`button`);
    btnEl.setAttribute(`class`, btnAttr[0] + " " + btnAttr[i + 1]);
    let btnTxt = document.createTextNode(`Potvrdi`);
    btnEl.appendChild(btnTxt);
    operRow.appendChild(btnEl);
    $operTransport.append(operRow);
   break;
  num++;
if (num === 2) {
  let operInput = document.createElement(`input`);
  setAttributes(operInput, operInputs[num]);
  operRow.appendChild(operInput);
  let btnEl = document.createElement(`button`);
  btnEl.setAttribute(`class`, btnAttr[0] + " " + btnAttr[i + 1]);
  let btnTxt = document.createTextNode(`Potvrdi`);
  btnEl.appendChild(btnTxt);
  operRow.appendChild(btnEl);
  $operLoan.append(operRow);
  num++;
  break;
if (num > 2) {
  const operInput = document.createElement(`input`);
  setAttributes(operInput, operInputs[num]);
  operRow.appendChild(operInput);
  if (num === 4) {
    num++;
    let btnEl = document.createElement(`button`);
    btnEl.setAttribute(`class`, btnAttr[0] + " " + btnAttr[i + 1]);
    let btnTxt = document.createTextNode(`Potvrdi`);
    btnEl.appendChild(btnTxt);
```

```
operRow.appendChild(btnEl);
            $operClose.append(operRow);
            break;
          num++;
  dynamicallyReLogInputs();
  dynamicallyOperBlock();
dynamicallyInputs();
const dynamicallyAccStats = function () {
  let h4 = [
    `Broj računa`,
    `Opis računa`,
    `Vlasnik računa`,
    `Zemlja`,
    `Pol`,
    `Status`,
    `Raspoloživa sredstva`,
    `Poslednja promena`,
    `Datum poslednje promene`,
  let h4Info = [
     account_number`,
    `Tekući račun`,
    `account_name`,
    `account country`,
     account_gender`,
    `Aktivan`,
    `account_money`,
     account_last__change`,
    `account_last__change-date`,
  for (let i = 0; i < h4.length; i++) {</pre>
    let rowDiv = document.createElement(`div`);
    rowDiv.setAttribute(`class`, `stats_row`);
```

```
let h4El = document.createElement(`h4`);
    h4El.innerText = h4[i];
    rowDiv.appendChild(h4El);
    if (i === 1 || i === 5) {
      let h4InfoEl = document.createElement(`p`);
      h4InfoEl.innerText = h4Info[i];
      rowDiv.appendChild(h4InfoEl);
      let h4InfoEl = document.createElement(`span`);
      h4InfoEl.setAttribute(`class`, h4Info[i]);
      rowDiv.appendChild(h4InfoEl);
    $accStatsContainer.append(rowDiv);
dynamicallyAccStats();
const $loginBtn = $(`.login_btn`);
const $registerBtn = $(`.register_btn`);
const $accLoginBtn = $(`.login_btn_acc`);
const $accRegisterBtn = $(`.register btn acc`);
const $accInfoLoginBtn = $(`.login_btn_acc-2`);
const $accInfoRegBtn = $(`.register_btn_acc-2`);
const $divRegister = $(`#register form`);
const $divLogin = $(`#login form`);
const $divAccountInfo = $(`#account_info`);
const $fullName = $(`#full_name`);
const $mobileNum = $(`#phone num`);
const $emailAddress = $(`#email address`);
const radioMale = document.querySelector(`#male`);
const radioFemale = document.querySelector(`#female`);
const $maleLabel = $(`.male_class`);
const $femaleLabel = $(`.female class`);
```

```
const $selectCountry = $(`#country`);
const $userNameLogin = $(`#full name login`);
const $userPinLogin = $(`#pin`);
let userPin = null;
const $nameError = $(`#name error`);
const $phoneError = $(`#phone_error`);
const $emailError = $(`#email error`);
const $registerError = $(`#register_error`);
const $userNameErorr = $(`#username error`);
const $pinError = $(`#pin error`);
const $loginError = $(`#login_error`);
// Operation buttons
const $transportBtn = $(`.transport btn`);
const $loanBtn = $(`.loan_btn`);
const $closeBtn = $(`.close_btn`);
const $transportName = $(`#transport_name`);
const $transportAmount = $(`#transport_amount`);
const $loanAmount = $(`#loan_amount`);
const $nameClose = $(`#username close`);
const $pinClose = $(`#pin_close`);
const $divTransactionInfoDisplay = $(`#transactions_display`);
const $accNum = $(`.account_number`);
const $accOwner = $(`.account_name`);
const $accCountry = $(`.account_country`);
const $accGender = $(`.account gender`);
const $accMoney = $(`.account_money`);
const $lastChange = $(`.account last change`);
const $lastChangeDate = $(`.account_last__change-date`);
function nameValidation($spanTag, $inputId) {
  let name = $inputId.val();
  if (name.length === 0) {
    $spanTag.html(`Upišite ime`);
```

```
$inputId.css(`border`, `1px solid red`);
                   return;
                    !name.match(/^[A-Z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}\check{S}D][a-z\check{C}\check{C}\check{Z}\check{S}\check{S}D][a-z\check{
                   $spanTag.html(`Neispravno napisano ime`);
                   $inputId.css(`border`, `1px solid red`);
                   return;
         $inputId.css(`border`, `solid 1px #9d9d9d`);
         $spanTag.html(`<i class="fa-solid fa-circle-check"></i>`);
         return true;
let validateName;
$fullName.keyup(function () {
        if (nameValidation($nameError, $fullName)) {
                   validateName = true;
                   return;
         validateName = false;
        return;
let validatePhone;
$mobileNum.keyup(function () {
          let phone = $mobileNum.val();
         if (phone.length === 0) {
                   $phoneError.html(`Upišite mobilni telefon`);
                   $mobileNum.css(`border`, `1px solid red`);
                   validatePhone = false;
                   return;
         if (!phone.match(/^[0-9]+$/)) {
                   $phoneError.html(`Samo cifre smeju`);
                   $mobileNum.css(`border`, `1px solid red`);
                   validatePhone = false;
                   return;
         if (phone.length !== 10) {
                   $phoneError.html(`Broj mora imati 10 cifara`);
                   $mobileNum.css(`border`, `1px solid red`);
                   validatePhone = false;
```

```
return;
    $mobileNum.css(`border`, `solid 1px #9d9d9d`);
    $phoneError.html(`<i class="fa-solid fa-circle-check"></i>`);
    validatePhone = true;
    return true;
  let validateEmail;
  $emailAddress.keyup(function () {
    let email = $emailAddress.val();
    email = String(email).toLocaleLowerCase();
    if (email.length === 0) {
      $emailAddress.css(`border`, `solid 1px red`);
      $emailError.html(`Upišite Vašu email adresu`);
      validateEmail = false;
     return;
      !email.match(
        /^(([^<>()[\]\\.,;:\s@"]+(\.[^<>()[\]\\.,;:\s@"]+)*)|(".+"))@((\[[0-
9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.])|(([a-zA-Z\-0-9]+\.)+[a-zA-
Z]{2,}))$/
      $emailAddress.css(`border`, `solid 1px red`);
      $emailError.html(`Neispravna email adresa`);
      validateEmail = false;
      return;
    $emailAddress.css(`border`, `solid 1px #9d9d9d`);
    $emailError.html(`<i class="fa-solid fa-circle-check"></i>`);
    validateEmail = true;
    return true;
 function validateSelect() {
    let value = $selectCountry.val();
    if (value == 0) {
      $(`select`).css(`border`, `2px solid red`);
      return;
      $(`select`).css(`border`, `2px solid green`);
```

```
return true;
function validateGender() {
 if (!radioMale.checked && !radioFemale.checked) {
    $maleLabel.css(`color`, `red`);
    $femaleLabel.css(`color`, `red`);
    return;
    $maleLabel.css(`color`, `#444`);
    $femaleLabel.css(`color`, `#444`);
 return true;
let validateUserName;
$userNameLogin.keyup(function () {
  if (nameValidation($userNameErorr, $userNameLogin)) {
    for (let i in accounts) {
      if ($userNameLogin.val() === accounts[i].owner) {
        validateUserName = true;
        return true;
  validateUserName = false;
  return;
$userPinLogin.keyup(function () {
  let userPinValue = $userPinLogin.val();
  if (userPinValue.length === 0) {
    $userPinLogin.css(`border`, `solid 1px red`);
    $pinError.html(`Upišite vaš pin`);
    validatePin = false;
    return;
  curUser = accounts.find((acc) => acc.owner === $userNameLogin.val());
  if (userPinValue.length > 4 | userPinValue.length < 4) {</pre>
    $userPinLogin.css(`border`, `solid 1px red`);
    $pinError.html(`Pin mora da ima 4 cifre`);
    validatePin = false;
```

```
if (+userPinValue !== curUser?.pin) {
    $userPinLogin.css(`border`, `solid 1px red`);
    $pinError.html(`Neispravan PIN`);
    validatePin = false;
    return;
  if (+userPinValue === curUser.pin) {
    $fullName.css(`border`, `solid 1px #9d9d9d`);
    $pinError.html(`<i class="fa-solid fa-circle-check"></i>`);
    validatePin = true;
   return true;
});
function displayError($spanErrorTag) {
  $spanErrorTag.css(`display`, `block`);
  $spanErrorTag.css(`color`, `red`);
  $spanErrorTag.html(`Molimo Vas ispravite greške`);
  setTimeout(function () {
    $spanErrorTag.css(`display`, `none`);
  }, 3000);
function createNewUser() {
  user.owner = $fullName.val();
  user.phone = $mobileNum.val();
  user.email = $emailAddress.val();
  user.gender = radioMale.checked ? `muški` : `ženski`;
  user.country = $selectCountry.val();
  user.pin = userPin;
  user.accountNumber = Math.trunc(
    user.transactions = [];
  user.lastChange = `;
  user.lastChangeDate = ``;
  for (let i = 0; i < accounts.length + 1; ) {</pre>
    acc[i] = { ...user };
    accounts.push(acc[i]);
    i++;
   break;
```

```
function curDate() {
    let date = new Date();
    let year = date.getFullYear();
    let month = date.getMonth() + 1;
    let day = date.getDate();
   return `${day}.${month}.${year}`;
 function containsOnlyNumbers(num) {
   return /^[0-9]+$/.test(num);
  const registerFun = function () {
   $registerBtn.click(function (e) {
      e.preventDefault();
      const validateForm = function () {
          !validateName |
          !validatePhone
          !validateEmail ||
          !validateSelect() ||
          !validateGender()
          displayError($registerError);
          return;
          userPin = Math.trunc(Math.random() * 9000) + 1000;
          $registerError.css(`display`, `block`);
          $registerError.css(`color`, `green`);
          $registerError.html(
            `Vaš nalog je uspešno napravljen, možete se logovati, a vaš pin je
<b>${userPin}</b>`
          setTimeout(function () {
            $registerError.css(`display`, `none`);
          }, 10000);
          createNewUser();
          return true;
```

```
validateForm();
   $fullName.val(``);
   $mobileNum.val(``);
   $emailAddress.val(``);
   radioMale.checked = false;
   radioFemale.checked = false;
 $accInfoRegBtn.click(function () {
   $divAccountInfo.addClass(`hidden`);
   $divRegister.removeClass(`hidden`);
registerFun();
const loginFun = function () {
 $loginBtn.click(function (e) {
   e.preventDefault();
   $divRegister.addClass(`hidden`);
   $divLogin.removeClass(`hidden`);
 $accRegisterBtn.click(function (e) {
   e.preventDefault();
   $divLogin.addClass(`hidden`);
   $divRegister.removeClass(`hidden`);
 $accLoginBtn.click(function (e) {
   e.preventDefault();
   if (!validateUserName | !validatePin) {
     displayError($loginError);
     return;
     $divLogin.addClass(`hidden`);
      $userNameLogin.val(``);
      $userPinLogin.val(``);
      $divAccountInfo.removeClass(`hidden`);
     const accountInfo = function (curUser) {
```

```
$accNum.html(curUser.accountNumber);
   $accOwner.html(curUser.owner);
   $accCountry.html(curUser.country);
   $accGender.html(curUser.gender);
   $accMoney.html(curUser.transactions.reduce((acc, el) => acc + el, 0));
   $lastChange.html(curUser.lastChange);
   $lastChangeDate.html(curUser.lastChangeDate);
  accountInfo(curUser);
  const displayTrasactions = function () {
   $divTransactionInfoDisplay.html(``);
    let transactions = curUser.transactions;
   transactions.forEach(function (el, i) {
      let value = el;
      let information = `<div class="transaction">
  <span class="amount money">${value} DIN</span>
  <span class="transaction_time">${curDate()}</span>
</div>`;
      $divTransactionInfoDisplay.append(information);
  displayTrasactions();
 // Operations
 const transferMoney = function () {
   $transportBtn.click(function () {
      let forWho = $transportName.val();
      let amount = $transportAmount.val();
      for (let i = 0; i < accounts.length; i++) {</pre>
        if (forWho !== accounts[i].owner || forWho === curUser.owner)
          continue;
          if (!containsOnlyNumbers(amount)) {
            return;
          amount = +amount;
          curUser.lastChange = -amount;
```

```
curUser.lastChangeDate = curDate();
        accounts[i].lastChange = amount;
        accounts[i].lastChangeDate = curDate();
        curUser.transactions.push(-amount);
        accounts[i].transactions.push(amount);
        displayTrasactions();
        accountInfo(curUser);
        $transportName.val(``);
        $transportAmount.val(``);
transferMoney();
const getLoan = function () {
 $loanBtn.click(function () {
    let amount = $loanAmount.val();
    if (!containsOnlyNumbers(amount)) return;
    accounts.forEach((acc) => {
      if (acc.owner === curUser.owner) {
        amount = +amount;
        curUser.lastChange = amount;
        curUser.lastChangeDate = curDate();
        curUser.transactions.push(amount);
        displayTrasactions();
        accountInfo(curUser);
        $loanAmount.val(``);
getLoan();
const closeAcc = function () {
 $closeBtn.click(function () {
    let accName = $nameClose.val();
    let pin = +$pinClose.val();
```

```
if (accName === curUser.owner && pin === curUser.pin) {
    accounts.forEach((acc, i) => {
        if (curUser.owner === acc.owner) {
            accounts.splice(i, i + 1);
            curUser = null;
            $nameClose.val(``);
            $pinClose.val(``);
            $divAccountInfo.addClass(`hidden`);
            $divRegister.removeClass(`hidden`);
        });
        } else return;
        });
    };
    closeAcc();
    }
    });
    $accInfoLoginBtn.click(function () {
        $divAccountInfo.addClass(`hidden`);
        $divLogin.removeClass(`hidden`);
    });
};
loginFun();
}
```

3.4 RSS