

Strahinja Obradović 154/23 – Dokumentacija

1. Uvod

1.1. Korišćeni programski jezici i tehnologije

Prilikom izrade sajta za stomatološku kliniku "**DentCare**" korišćene su sledeće tehnologije i programski jezici:

- **HTML5** – za definisanje semantičke strukture svih stranica projekta (`index.html`, `service.html`, `appointment.html`, `contact.html`, `author.html`) i definisanje elemenata poput kontejnera, formi i interaktivnih dugmadi.
- **CSS3** – za stilizaciju, mrežni raspored (layout), napredne animacije, responsive dizajn prilagođen svim uređajima i definisanje vizuelnog identiteta klinike.
- **JavaScript** – za kompletnu logiku aplikacije: dinamičko generisanje navigacije, ispis usluga iz niza objekata, naprednu validaciju više formi pomoću regularnih izraza (Regex) i dinamičku manipulaciju DOM-om.
- **jQuery** – za optimizovano rukovanje događajima, rad sa eksternim bibliotekama i implementaciju glatkih prelaza.
- **Bootstrap 5** – korišćen kao osnovni framework za grid sistem i gotove komponente (navbar, carousel, cards).
- **Google Fonts** – za integraciju profesionalne tipografije ("Jost" i "Open Sans").

1.2. Opis funkcionalnosti

Sajt "**DentCare**" predstavlja kompleksno rešenje za stomatološku kliniku sa fokusom na korisničko iskustvo i validnost podataka. Implementirano je više nivoa dinamičnosti:

1. **Stranica Index:** Sadrži dinamički Carousel sa animacijama i pregled ključnih informacija.
2. **Stranica Services:** Umesto statičkog kucanja, usluge se generišu iz JavaScript niza objekata. Funkcija `renderDentalServices` omogućava automatsko kreiranje kartica sa slikama i opisima, što olakšava održavanje sajta.

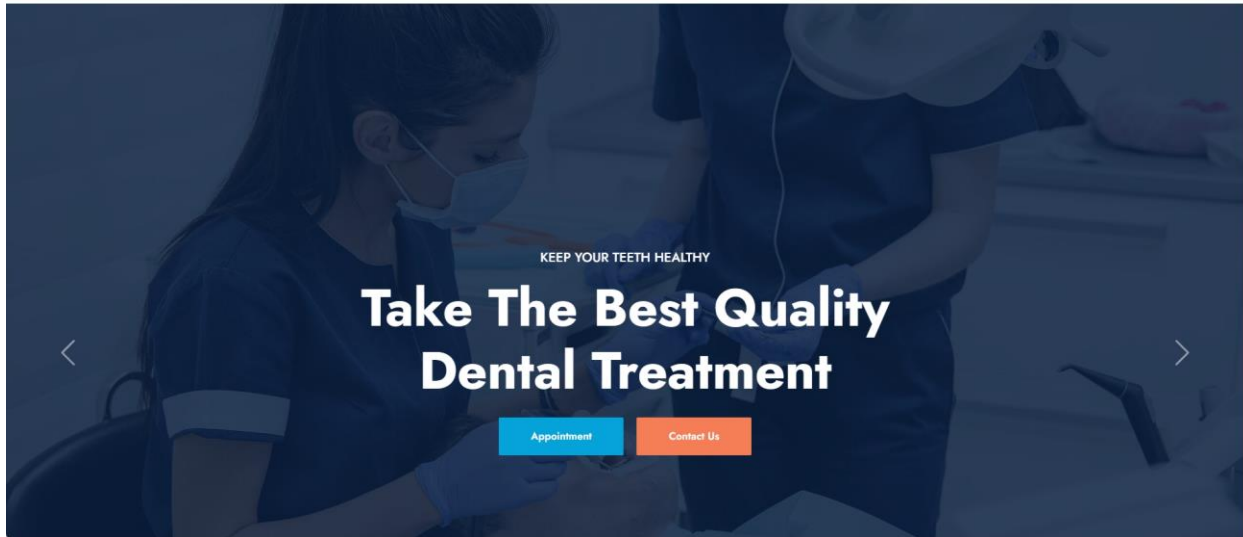
3. **Stranica Appointment:** Sadrži kompleksnu formu za zakazivanje. JavaScript kontroliše svaki input (ime, email, izbor doktora, datum, vreme) i sprečava slanje dok se ne ispoštuju Regex pravila.
4. **Stranica Contact:** Implementirana je kontakt forma sa validacijom u realnom vremenu. Poseban fokus je na proveru formata email adrese i imena (obavezno veliko početno slovo).
5. **Dinamička Navigacija:** Na svim stranicama, navigacija se generiše programski. To omogućava da se linkovi za resurse poput **ZIP archive** i **PDF dokumentacije** dodaju automatski, osiguravajući da su uvek dostupni korisniku bez obzira na kojoj se stranici nalazi.
 - **Regex Validacija:** Stroga provera unosa (Ime Prezime, Email format).
 - **Dynamic Rendering:** Generisanje sadržaja na osnovu podataka iz nizova.
 - **User Feedback:** Personalizovane poruke o uspehu nakon uspešno obavljenih akcija.
 - **Responsiveness:** Prilagođenost za mobilne uređaje uz pomoć hamburger menija.

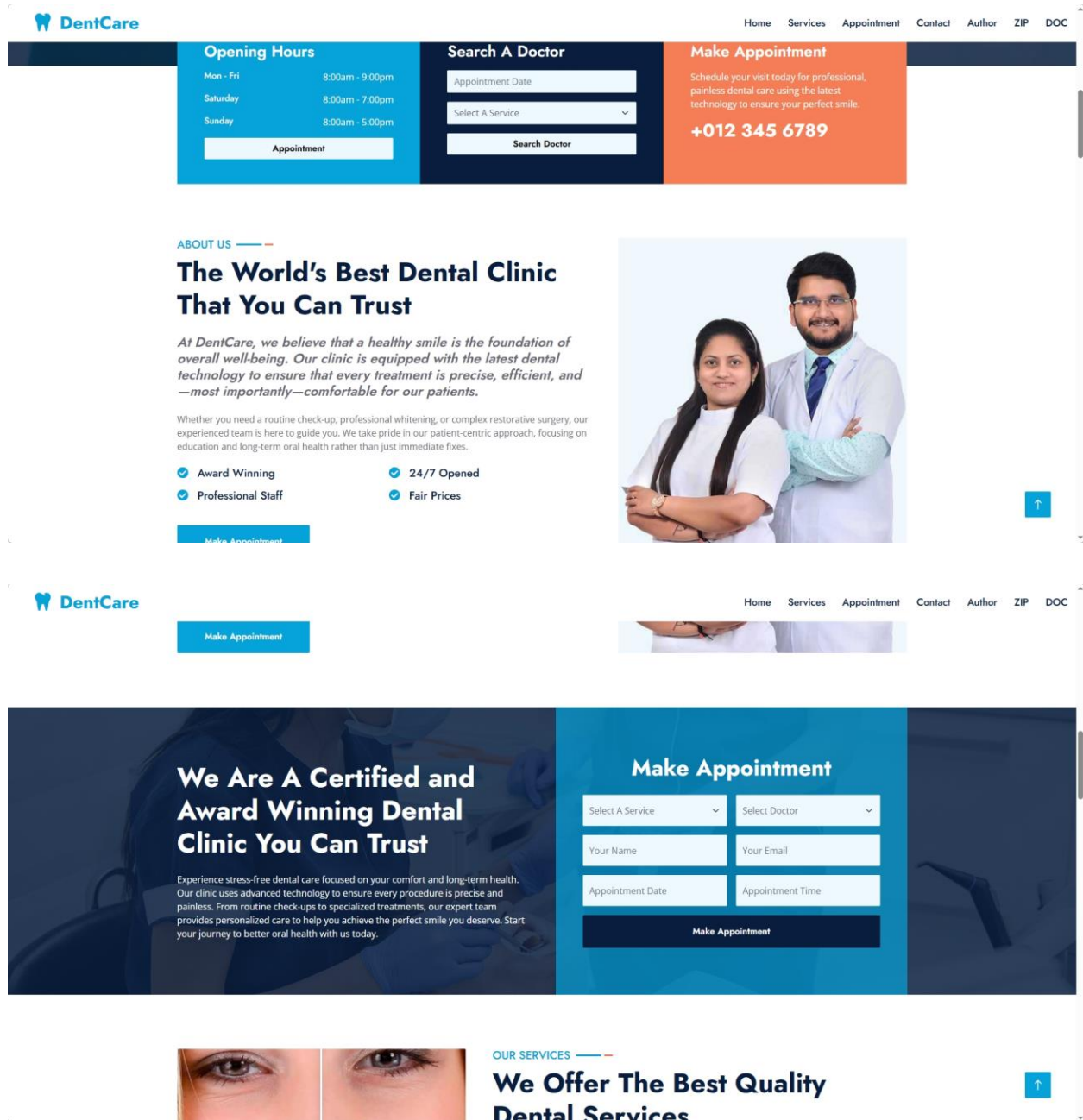
2. Organizacija i vizuelni prikaz

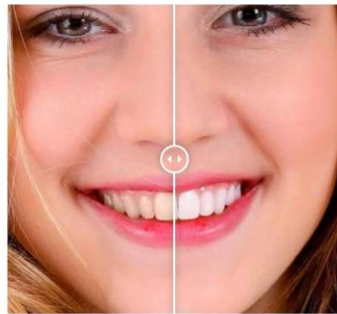
2.1. Mapa sajta

2.2. Prikaz stranica (Screenshots)

Index.html







OUR SERVICES

We Offer The Best Quality Dental Services



Cosmetic Dentistry



Dental Implants



Dental Bridges

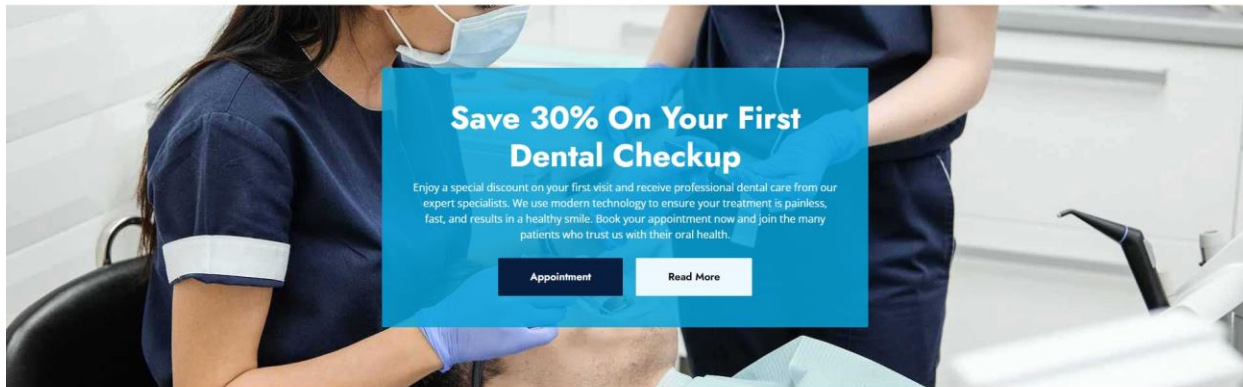


Teeth Whitening

Make Appointment

Schedule your visit today for professional, painless dental care using the latest technology to ensure your perfect smile.

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Save 30% On Your First Dental Checkup

Enjoy a special discount on your first visit and receive professional dental care from our expert specialists. We use modern technology to ensure your treatment is painless, fast, and results in a healthy smile. Book your appointment now and join the many patients who trust us with their oral health.

[Appointment](#)

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We Offer Fair Prices for Dental Treatment

We provide expert care with modern technology. Every visit ensures a healthy smile and professional results. High quality dental care is our priority. Treat your teeth with the best, and enjoy a painless experience today.

CALL FOR APPOINTMENT

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\$49

Dental Implant

- Strong base ✓
- Natural look ✓
- Permanent fix ✓

Appointment

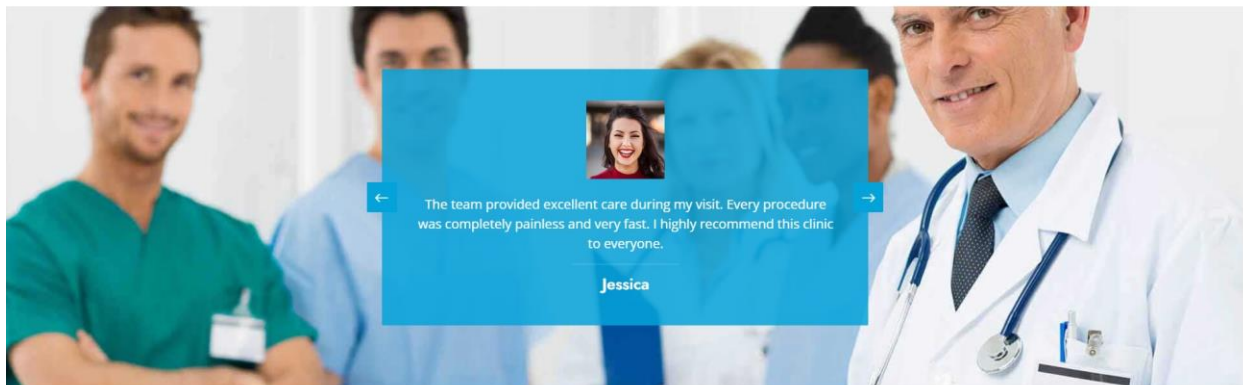
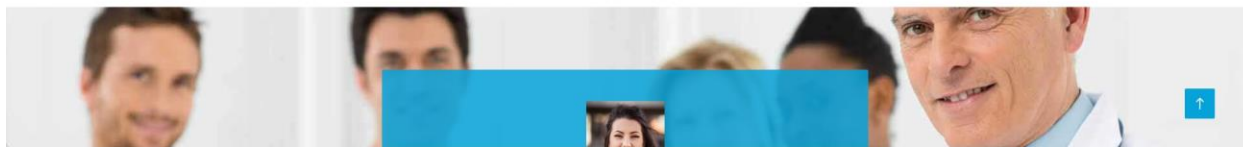


\$99

Root Canal

- Modern Equipment ✓
- Professional Dentist ✓
- 24/7 Call Support ✓

Appointment



The team provided excellent care during my visit. Every procedure was completely painless and very fast. I highly recommend this clinic to everyone.

Jessica

OUR DENTIST

Meet Our



OUR DENTIST —

Meet Our Certified & Experienced Dentist

[Appointment](#)



Dr. Thomas Wright
Oral Surgeon



Dr. Elena Vance
Orthodontist



Dr. James Bennett
Implantologist



Dr. Sarah Miller
Pediatric Dentist



Dr. Robert Hayes
Periodontist

Your Email

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Dental Implants



Dental Bridges



Teeth Whitening

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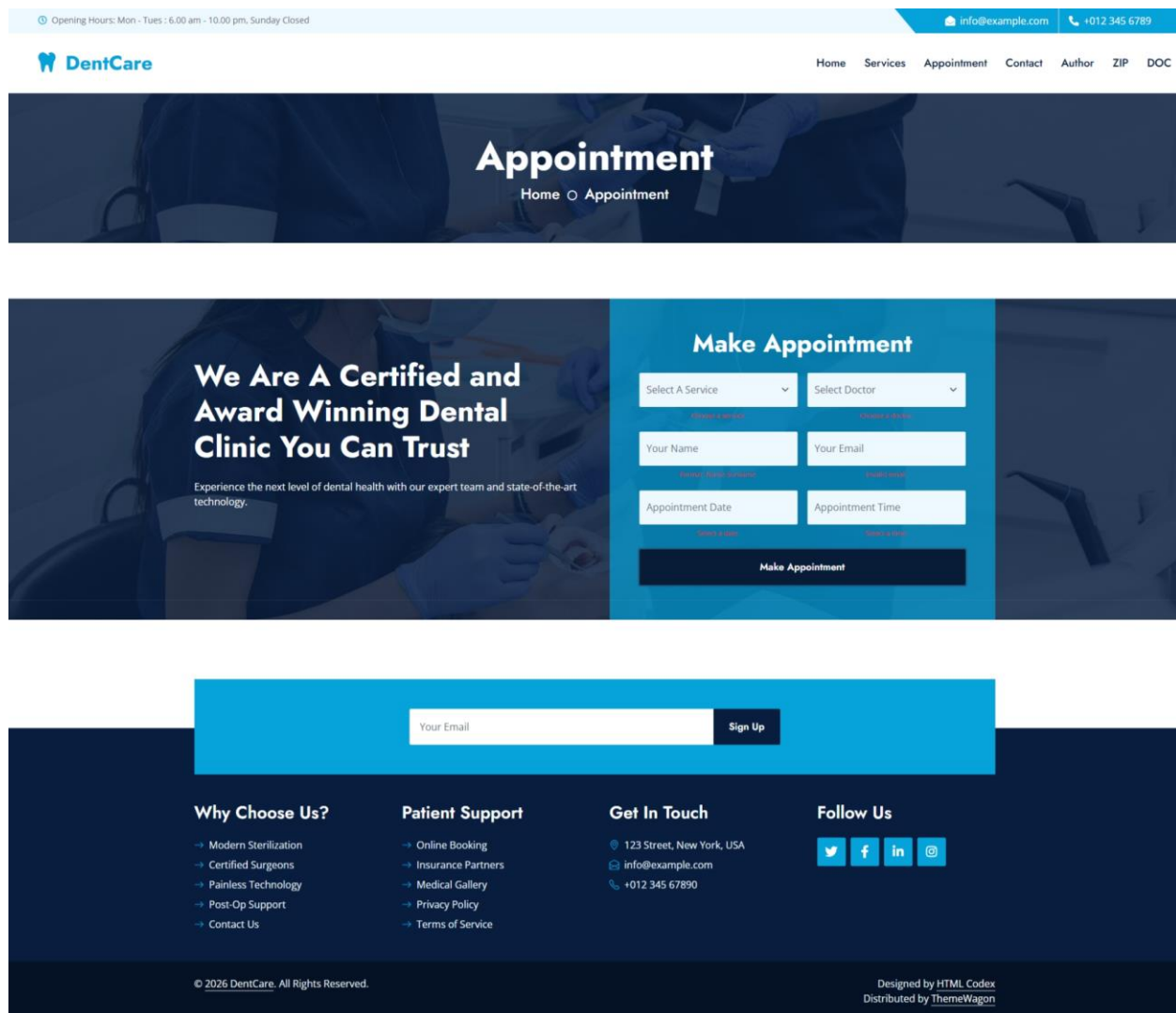
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Service.html Prikaz sekcije sa uslugama gde su kartice (Cosmetic Dentistry, Implants, itd.) iscrtane pomoću JavaScript petlje iz niza dentalData.





Appointment.html Prikaz forme za zakazivanje sa selektorima za doktore i usluge, gde se vrši provera svih polja pre slanja zahteva.

CONTACT US

Feel Free To
Contact Us

 **Our Office**
123 Street, New York, USA

 **Email Us**
info@example.com

 **Call Us**
+012 345 6789

Your Name

Format: Name Surname (e.g. John Doe)

Your Email

Please enter a valid email address.

Choose Service

Please choose a dental service.

Patient: ☐ New ☐ Old

Please select your patient status.

Send Message



Your Email

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Contact.html Demonstracija Regex validacije na kontakt formi. Vidljive su crvene poruke upozorenja za neispravan email i pogrešan format imena.

About Author

Home [Author](#)



Straninja Obradovic

Student ID: 154/23

I was born on January 25, 2004, in Smederevo. I graduated from the Eighth Belgrade Gymnasium and I am currently a second-year student of Internet Technologies at the ICT College in Belgrade. My professional focus is on developing modern web solutions and mastering front-end technologies with a focus on Native JavaScript.



[Home](#) [Services](#) [Appointment](#) [Contact](#) [Author](#) [ZIP](#) [DOC](#)

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Author.html Stranica sa osnovnim podacima o studentu, fotografijom i informacijama o broju indeksa.

3. Ispis izvornog koda

3.1. index.html

```

1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <title>DentCare - Dental Clinic Website Template</title>
7   <meta content="width=device-width, initial-scale=1.0" name="viewport">
8   <meta content="Free HTML Templates" name="keywords">
9   <meta content="Free HTML Templates" name="description">
10
11   <!-- Favicon -->
12   <link href="img/favicon.ico" rel="icon">
13
14   <!-- Google Web Fonts -->
15   <link rel="preconnect" href="https://fonts.gstatic.com">
16   <link href="https://fonts.googleapis.com/css2?family=Jost:wght@500;600;700&family=Open+Sans:wght@400;600&display=swap" rel="stylesheet">
17
18   <!-- Icon Font Stylesheet -->
19   <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">
20   <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" rel="stylesheet">
21
22   <!-- Libraries Stylesheet -->
23   <link href="lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">
24   <link href="lib/animate/animate.min.css" rel="stylesheet">
25   <link href="lib/tempusdominus/css/tempusdominus-bootstrap-4.min.css" rel="stylesheet" />
26   <link href="lib/twentytwenty/twentytwenty.css" rel="stylesheet" />
27
28   <!-- Customized Bootstrap Stylesheet -->
29   <link href="css/bootstrap.min.css" rel="stylesheet">
30
31   <!-- Template Stylesheet -->
32   <link href="css/style.css" rel="stylesheet">
33 </head>
34
35 <body>
36   <!-- Spinner Start -->
37   <div id="spinner" class="show bg-white position-fixed translate-middle w-100 vh-100 top-50 start-50 d-flex align-items-center justify-content-center">
38     <div class="spinner-grow text-primary m-1" role="status">
39       <span class="sr-only">Loading...</span>
40     </div>
41     <div class="spinner-grow text-dark m-1" role="status">
42       <span class="sr-only">Loading...</span>
43     </div>
44     <div class="spinner-grow text-secondary m-1" role="status">
45       <span class="sr-only">Loading...</span>
46     </div>
47   </div>
48   <!-- Spinner End -->
49

```

3.2. service.html

3.3. appointment.html

3.4. contact.html

3.5. author.html

3.6. main.js (Logika i Validacija)

Glavna logika projekta uključuje `setupNavigation` funkciju za dinamički meni i kompleksne Regex izraze za proveru svih formi na sajtu.

```

        emailErr.innerText = "Please enter a valid email address.";
        isValid = false;
    } else {
        emailErr.innerText = "";
    }

    if (service === "0") {
        serviceErr.innerText = "Please choose a dental service.";
        isValid = false;
    } else {
        serviceErr.innerText = "";
    }

    if (!statusNew.checked && !statusOld.checked) {
        statusErr.innerText = "Please select your patient status.";
        isValid = false;
    } else {
        statusErr.innerText = "";
    }

    if (isValid) {
        successMsg.innerText = "Message sent successfully! Thank you, " + fullname.split(' ')[0] + ".";
        contactForm.reset();
    } else {
        successMsg.innerText = "";
    }
    });
}

const appointmentForm = document.getElementById("appointment-form");

if (appointmentForm) {
    appointmentForm.addEventListener("submit", function(e) {
        e.preventDefault();

        let isAppValid = true;

        let appName = document.getElementById("app-name").value.trim();
        let appEmail = document.getElementById("app-email").value.trim();
        let appService = document.getElementById("app-service").value;
        let appDoctor = document.getElementById("app-doctor").value;
        let appDate = document.getElementById("app-date").value.trim();
        let appTime = document.getElementById("app-time").value.trim();

        let appNameErr = document.getElementById("appNameErr");
        let appEmailErr = document.getElementById("appEmailErr");
        let appServiceErr = document.getElementById("appServiceErr");

```

```

//-----//
//-----NATIVE JS -----//
//-----//
document.addEventListener("DOMContentLoaded", function() {

    function generateNavigation() {
        const navContainer = document.querySelector(".navbar-nav");
        if (navContainer) {
            const authorLink = `Author</a>`;
            const zipLink = `ZIP</a>`;

            navContainer.innerHTML += authorLink + zipLink;
        }
    }
    generateNavigation\\(\\);

    const contactForm = document.getElementById\\("contact-form"\\);

    if \\(contactForm\\) {
        contactForm.addEventListener\\("submit", function\\(e\\) {
            e.preventDefault\\(\\);

            let isValid = true;

            let fullname = document.getElementById\\("fullname"\\).value.trim\\(\\);
            let email = document.getElementById\\("email"\\).value.trim\\(\\);
            let service = document.getElementById\\("serviceChoice"\\).value;
            let statusNew = document.getElementById\\("novi"\\);
            let statusOld = document.getElementById\\("stari"\\);

            let nameErr = document.getElementById\\("nameErr"\\);
            let emailErr = document.getElementById\\("emailErr"\\);
            let serviceErr = document.getElementById\\("serviceErr"\\);
            let statusErr = document.getElementById\\("statusErr"\\);
            let successMsg = document.getElementById\\("formSuccess"\\);

            let reName = /^\\[A-Z\\]\\[a-z\\]{2,14}\\(\s\\[A-Z\\]\\[a-z\\]{2,14}\\)+\\$/;
            let reEmail = /^\\[w-\.\\]+@\\(\\[\w-\\]+\.\\)+\\[\w-\\]{2,4}\\$/;

            if \\(!reName.test\\(fullname\\)\\) {
                nameErr.innerText = "Format: Name Surname \\(e.g. John Doe\\).";
                isValid = false;
            } else {
                nameErr.innerText = "";
            }

            if \\(!reEmail.test\\(email\\)\\) {

```

```

renderDentalServices();
setupNavigation();
});

const dentalData = [
  { title: "Cosmetic Dentistry", image: "img/service-1.jpg", delay: "0.6s" },
  { title: "Dental Implants", image: "img/service-2.jpg", delay: "0.9s" },
  { title: "Dental Bridges", image: "img/service-3.jpg", delay: "0.3s" },
  { title: "Teeth Whitening", image: "img/service-4.jpg", delay: "0.6s" }
];

function renderDentalServices() {
  const row1 = document.getElementById("services-row-1");
  const row2 = document.getElementById("services-row-2");

  if (row1 && row2) {
    let html1 = "";
    let html2 = "";

    dentalData.forEach((service, index) => {
      const cardHtml = `
        <div class="col-md-6 service-item wow zoomIn" data-wow-delay="${service.delay}">
          <div class="rounded-top overflow-hidden">
            
          </div>
          <div class="position-relative bg-light rounded-bottom text-center p-4">
            <h5 class="m-0">${service.title}</h5>
          </div>
        </div>`;

      if (index < 2) html1 += cardHtml;
      else html2 += cardHtml;
    });

    row1.innerHTML = html1;
    row2.innerHTML = html2;
  }
}

function setupNavigation() {
  const navContainer = document.querySelector(".navbar-nav");

  if (navContainer) {
    const allLinks = [
      { name: "Home", path: "index.html", isDownload: false },
      { name: "Services", path: "service.html", isDownload: false },
      { name: "Appointment", path: "appointment.html", isDownload: false },
    ];
  }
}

```

```
    { name: "Appointment", path: "appointment.html", isDownload: false },
    { name: "Contact", path: "contact.html", isDownload: false },
    { name: "Author", path: "author.html", isDownload: false },
    { name: "ZIP", path: "projekat.zip", isDownload: true },
    { name: "DOC", path: "documentation.pdf", isDownload: true }
  ];

  navContainer.innerHTML = "";

  allLinks.forEach(link => {
    let anchor = document.createElement("a");
    anchor.setAttribute("href", link.path);
    anchor.className = "nav-item nav-link";
    anchor.textContent = link.name;

    if (link.isDownload) {
      anchor.setAttribute("download", "");
    }

    navContainer.appendChild(anchor);
  });
}
```

```

let appEmailErr = document.getElementById("appEmailErr");
let appServiceErr = document.getElementById("appServiceErr");
let appDoctorErr = document.getElementById("appDoctorErr");
let appDateErr = document.getElementById("appDateErr");
let appTimeErr = document.getElementById("appTimeErr");
let appSuccess = document.getElementById("appSuccess");

let reName = /^[A-Z][a-z]{2,14}(\s[A-Z][a-z]{2,14})+$/;
let reEmail = /^[w-\.]+@([\w-]+\.)+[\w-]{2,4}$/;

if (!reName.test(appName)) {
  appNameErr.innerText = "Format: Name Surname.";
  isAppValid = false;
} else { appNameErr.innerText = ""; }

if (!reEmail.test(appEmail)) {
  appEmailErr.innerText = "Invalid email.";
  isAppValid = false;
} else { appEmailErr.innerText = ""; }

if (appService === "0" || appService === "Select A Service") {
  appServiceErr.innerText = "Choose a service.";
  isAppValid = false;
} else { appServiceErr.innerText = ""; }

if (appDoctor === "0" || appDoctor === "Select Doctor") {
  appDoctorErr.innerText = "Choose a doctor.";
  isAppValid = false;
} else { appDoctorErr.innerText = ""; }

if (appDate === "") {
  appDateErr.innerText = "Select a date.";
  isAppValid = false;
} else { appDateErr.innerText = ""; }

if (appTime === "") {
  appTimeErr.innerText = "Select a time.";
  isAppValid = false;
} else { appTimeErr.innerText = ""; }

if (isAppValid) {
  appSuccess.innerText = "Appointment requested successfully!";
  appointmentForm.reset();
} else {
  appSuccess.innerText = "";
}
});

```

3.7. style.css (Stilizacija)

"Kompletna CSS kod koji obuhvata sve modifikacije Bootstrap-a i definicije za responzivni dizajn." (*Kopiraj ceo style.css - ovo će ti uzeti najviše strana*)

```
/****** Template CSS *****/
:root {
  --primary: #06A3DA;
  --secondary: #F57E57;
  --light: #EEF9FF;
  --dark: #091E3E;
}

h1,
h2,
.font-weight-bold {
  font-weight: 700 !important;
}

h3,
h4,
.font-weight-semi-bold {
  font-weight: 600 !important;
}

h5,
h6,
.font-weight-medium {
  font-weight: 500 !important;
}

.btn {
  font-family: 'Jost', sans-serif;
  font-weight: 600;
  transition: .5s;
}

.btn-primary,
.btn-secondary {
  color: #FFFFFF;
}

.btn-primary:hover {
  background: var(--secondary);
  border-color: var(--secondary);
}

.btn-secondary:hover {
  background: var(--primary);
  border-color: var(--primary);
}

.btn-square {
  width: 36px;
```