

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 kompletну 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 proveri 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 arhive** 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](#)

 Opening Hours: Mon - Tues : 6.00 am - 10.00 pm, Sunday Closed

 info@example.com

 +012 345 6789



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

KEEP YOUR TEETH HEALTHY

Take The Best Quality Dental Treatment

[Appointment](#)

[Contact Us](#)

Opening Hours

Mon - Fri	8:00am - 9:00pm
Saturday	8:00am - 7:00pm
Sunday	8:00am - 5:00pm

[Appointment](#)**Search A Doctor**

Appointment Date
Select A Service
Search Doctor

Make Appointment

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

+012 345 6789**ABOUT US** —

The World's Best Dental Clinic That You Can Trust

At DentCare, we believe that a healthy smile is the foundation of overall well-being. Our clinic is equipped with the latest dental technology to ensure that every treatment is precise, efficient, and—most importantly—comfortable for our patients.

Whether you need a routine check-up, professional whitening, or complex restorative surgery, our experienced team is here to guide you. We take pride in our patient-centric approach, focusing on education and long-term oral health rather than just immediate fixes.

- Award Winning
- 24/7 Opened
- Professional Staff
- Fair Prices

[Make Appointment](#)[Make Appointment](#)

We Are A Certified and Award Winning Dental Clinic You Can Trust

Experience stress-free dental care focused on your comfort and long-term health. Our clinic uses advanced technology to ensure every procedure is precise and painless. From routine check-ups to specialized treatments, our expert team provides personalized care to help you achieve the perfect smile you deserve. Start your journey to better oral health with us today.

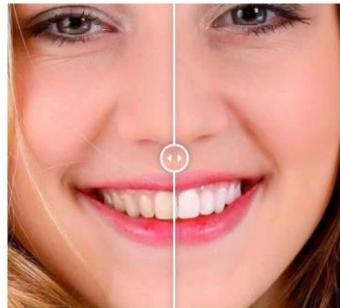
Make Appointment

Select A Service	Select Doctor
Your Name	Your Email
Appointment Date	Appointment Time
Make Appointment	

**OUR SERVICES** —

We Offer The Best Quality Dental Services





OUR SERVICES —

We Offer The Best Quality Dental Services



Cosmetic Dentistry



Dental Implants



Dental Bridges

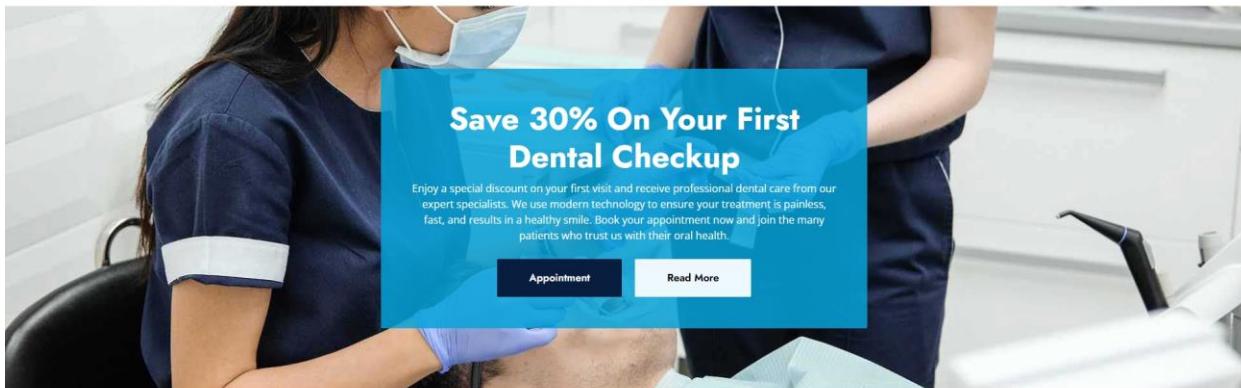


Teeth Whitening

**Make Appointment**

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

+012 345 6789



PRICING PLAN —

We Offer Fair Prices



PRICING PLAN —

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

+012 345 6789



Dental Implant

- Strong base
- Natural look
- Permanent fix

Appointment



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

[Sign Up](#)**Why Choose Us?**

- Modern Sterilization
- Certified Surgeons
- Painless Technology
- Post-Op Support
- Contact Us

Patient Support

- Online Booking
- Insurance Partners
- Medical Gallery
- Privacy Policy
- Terms of Service

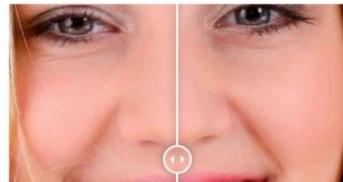
Get In Touch

- ✉ 123 Street, New York, USA
✉ info@example.com
📞 +012 345 67890

Follow Us

Services

Home ○ Services

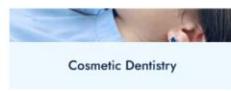


OUR SERVICES ——

We Offer The Best Quality Dental Services



Home Services Appointment Contact Author ZIP DOC



🦷 DentCare



Dental Bridges



Teeth Whitening



Make Appointment

Book your appointment today to experience professional care
and a perfect new smile

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Your Email

Sign Up

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- Painless Technology
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- Contact Us

Patient Support

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Get In Touch

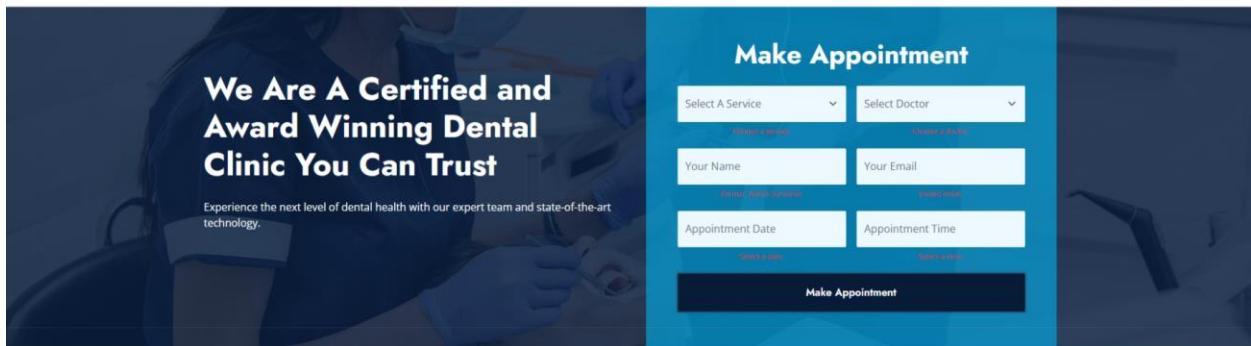
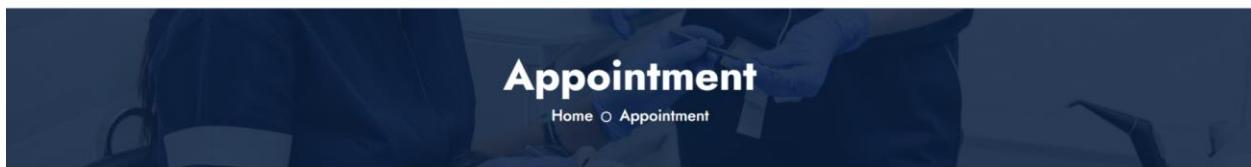
- 📍 123 Street, New York, USA
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Service.html Prikaz sekcije sa uslugama gde su kartice (Cosmetic Dentistry, Implants, itd.) iscrtane pomoću JavaScript petlje iz niza dentalData.



We Are A Certified and Award Winning Dental Clinic You Can Trust

Experience the next level of dental health with our expert team and state-of-the-art technology.

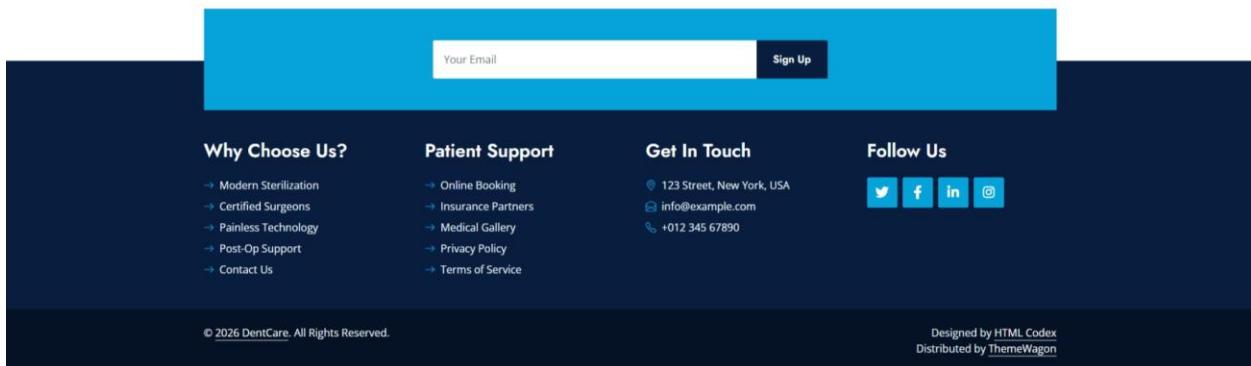
Make Appointment

Select A Service Select Doctor

Your Name Your Email

Choose a Service Choose a Doctor

Appointment Date Appointment Time



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

DentCare

Home Contact

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 **Sign Up**

Why Choose Us?

- Modern Sterilization
- Certified Surgeons
- Painless Technology
- Post-Op Support
- Contact Us

Patient Support

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



 **DentCare**

Stranija 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.



Your Email Sign Up

Why Choose Us?

- Modern Sterilization
- Certified Surgeons
- Painless Technology
- Post-Op Support
- Contact Us

Patient Support

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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

```
denicare.html (index.html) - 100% - ② div.spinner-grow text-primary m-1" role="status"> Loading... ③ div.spinner-grow text-dark m-1" role="status"> Loading... ④ div.spinner-grow text-secondary m-1" role="status"> Loading... ⑤ div
```

```
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");
        let appDoctorErr = document.getElementById("appDoctorErr");
        let appDateErr = document.getElementById("appDateErr");
        let appTimeErr = document.getElementById("appTimeErr");
        let appCommentsErr = document.getElementById("appCommentsErr");
        let appComments = document.getElementById("app-comments").value;
        let appCommentsLength = appComments.length;
        let appCommentsMinLength = 10;
        let appCommentsMaxLength = 500;
        let appCommentsErrMsg = "Comments must be between 10 and 500 characters long.";
```

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

    function generateNavigation() {
        const navContainer = document.querySelector(".navbar-nav");
        if (navContainer) {
            const authorLink = `<a href="author.html" class="nav-item nav-link">Author</a>`;
            const zipLink = `<a href="projekat.zip" class="nav-item nav-link">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.";
    isValid = false;
} else { appNameErr.innerText = ""; }

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

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

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

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

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

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

```

3.7. style.css (Stilizacija)

"Kompletan 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;
```