



CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE • INDIA

Department of Computer Science

SUBJECT NAME – Webstack Development

Lab-6

SUBMITTED BY:

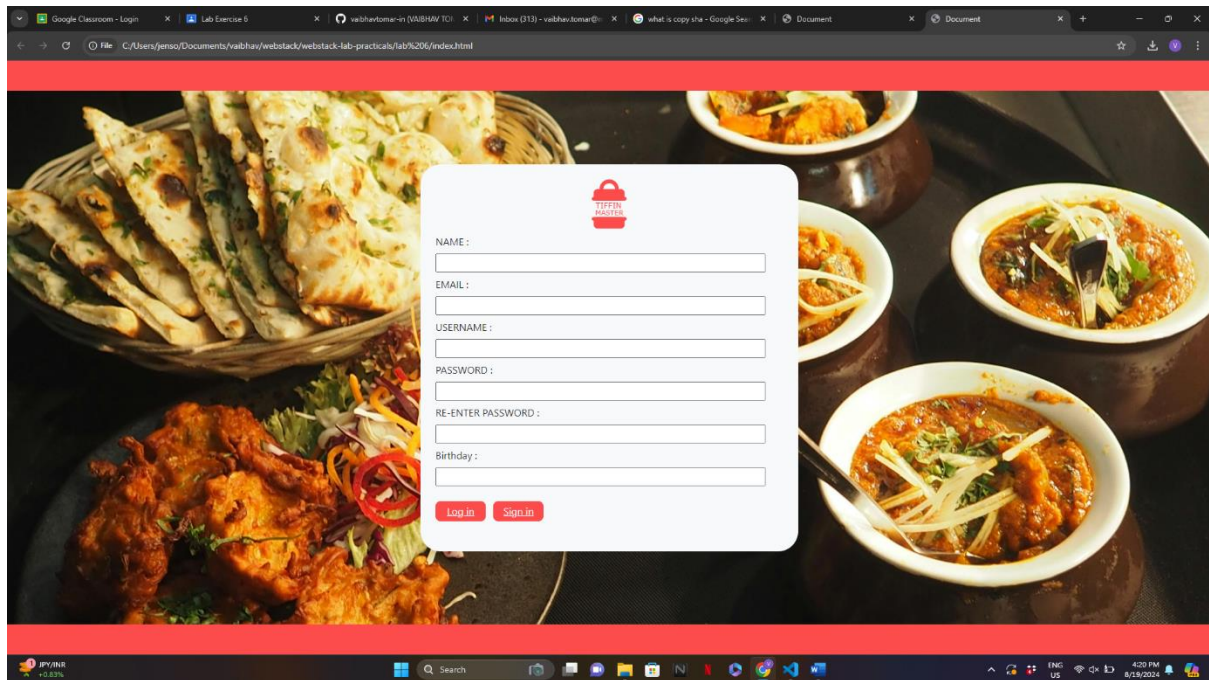
Vaibhav Tomar

(244157)

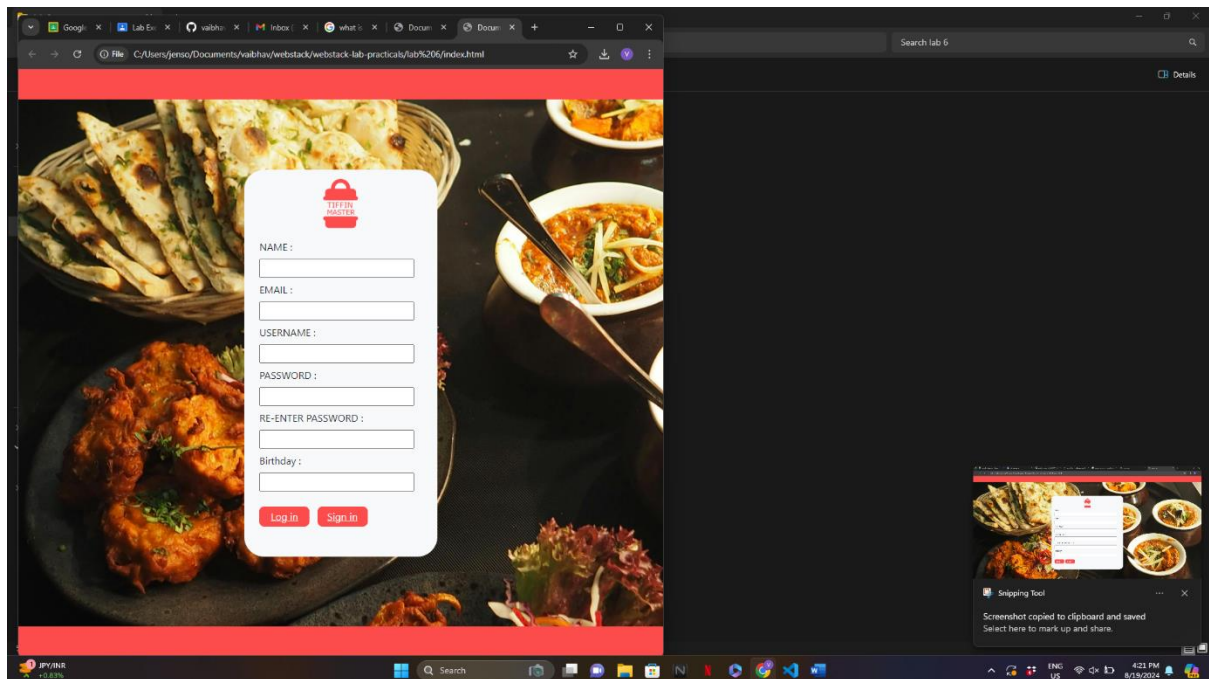
IMCA-A

Output:

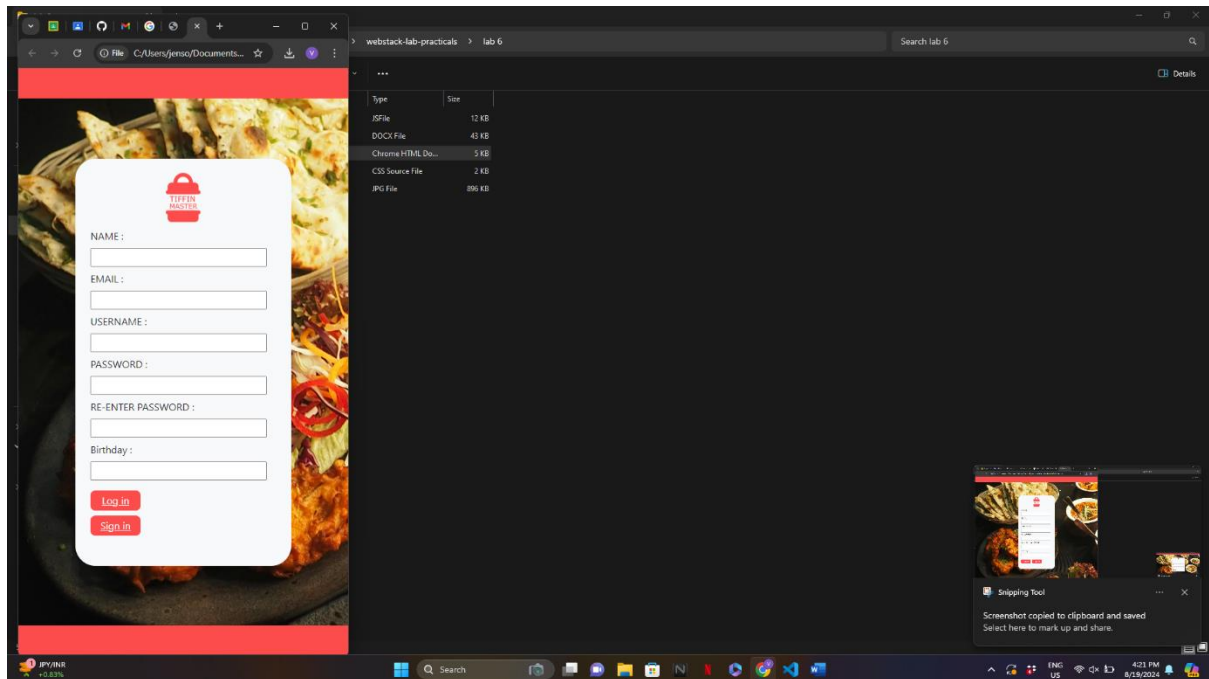
Full screen view



Medium width veiw

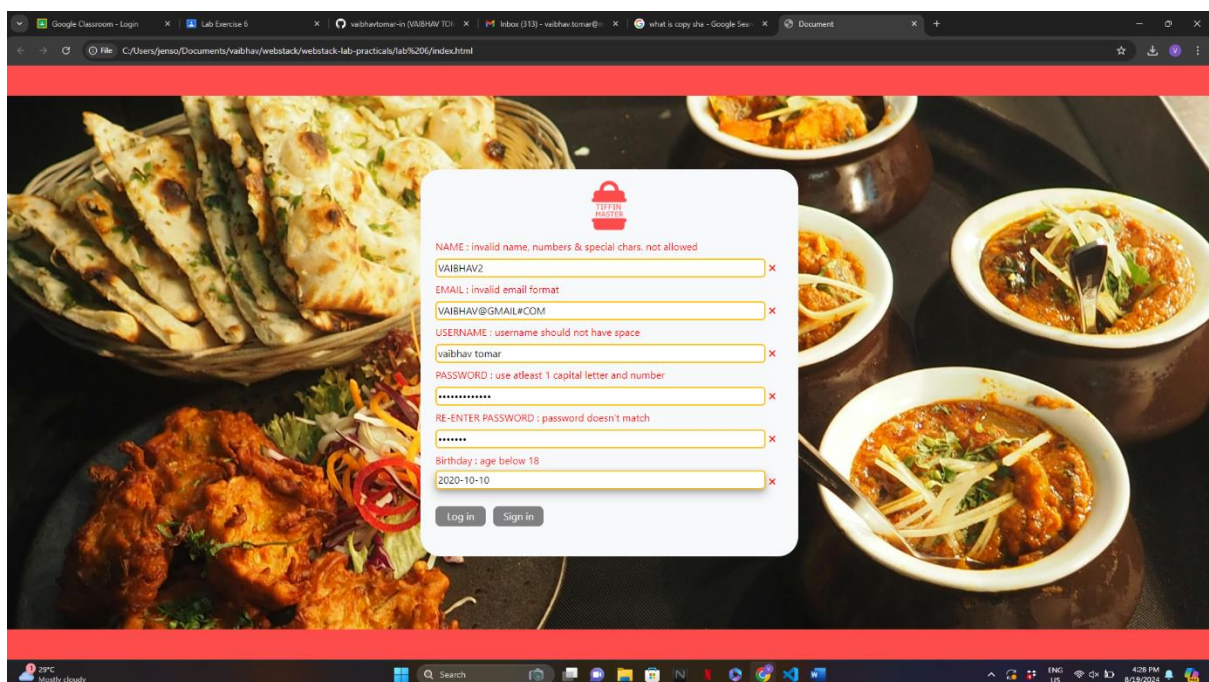


Mobile screen view



Rationale behind the design :

- The form contains essential information for a login website
- The website shows error in real time to the user as they type
- The error is displayed next to the label, that way it is easier to identify which error corresponds to which field
- The input selected is highlighted using CSS animation for better UI/UX
- Red "x" and green tick mark is shown to indicate whether the value is acceptable or not



Code :

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link
    href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css"
    rel="stylesheet"
    integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65"
    crossorigin="anonymous"
  />
  <script
    src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"
    integrity="sha384-oBqDVmMz9ATKxIep9tiCxs/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQl1mh/jp3"
    crossorigin="anonymous"
  ></script>
  <script
    src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.min.js"
    integrity="sha384-cuYeSxntonz0PPN1HhBs68uyIAVpIIIOZZ5JqeqvYYIcEL7277kskC66kF92t6X12V"
    crossorigin="anonymous"
  ></script>
  <link rel = "stylesheet" href="style.css"/>
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.6.0/css/all.min.css" integrity="sha512-Kc323vGBEqzTmouAECnVceyQyqdsSiqLQISBL29aUW4U/M7pSPA/gEUZQqv1cwx40nYxTxve5UMg5GT6L4JJg=="
    crossorigin="anonymous" referrerpolicy="no-referrer" />
</head>
<body>
  <div class="outer vh-100 d-flex">
    <section class="login-section p-5 d-flex justify-content-center h-90 my-5 w-100 align-items-center">
      <div class="form-div bg-light rounded-5 p-4">
        <form action="" class="login-form" id="loginForm">
          <div class="from-header d-flex justify-content-center">
            <div class="svg-div">
              <svg height = "5em" viewBox="-5,-2.5,10,13">
                <circle cx="0" cy="0" r="2.5" fill="#fc4c4c"></circle>
                <circle cx="0" cy="0" r="1.5" fill = "white"></circle>
                <rect x="-4" y="0" height="3" width="8" fill="#fc4c4c" rx="1"></rect>
                <rect x="-4.5" y="2" height="1" width="9" fill="#fc4c4c"
rx="0.5"></rect>
                <text x="-3.5" y="5" font-family="Verdana" font-size="2"
fill="#fc4c4c">TIFFIN</text>
                <text x="-3.6" y="6.8" font-family="Verdana" font-size="1.75"
fill="#fc4c4c">MASTER</text>
                <rect x="-4.5" y="7.2" height="1" width="9" fill="#fc4c4c"
rx="0.5"></rect>
                <rect x="-4" y="7.2" height="3" width="8" fill="#fc4c4c"
rx="1"></rect>
              </svg>
            </div>
          </div>
          <div class="form-content d-flex flex-column">
            <div><label for="name" class="col-form-label">NAME :</label>
<span></span></div>
            <div><input type="text" class="control-input" id="name" /><span></span></div>
            <div><label for="email" class="col-form-label">EMAIL :</label>
<span></span></div>
            <div><input type="text" class="control-input" id="email" /><span></span></div>
            <div><label for="username" class="col-form-label">USERNAME :</label>
<span></span></div>
          </div>
        </form>
      </div>
    </section>
  </div>
```

```

        <div><input type="text" class="control-input" id="username"
/><span></span></div>
        <div><label for="password" class="col-form-label">PASSWORD :</label>
<span></span></div>
        <div><input type="password" class="control-input" id="password"
/><span></span></div>
        <div><label for="password" class="col-form-label">RE-ENTER PASSWORD :</label>
<span></span></div>
        <div><input type="password" class="control-input" id="re-password"
/><span></span></div>
        <div><label for="birthday" class="col-form-label">Birthday :</label>
<span></span></div>
        <div><input type="text" class="control-input" id="birthday"
name="birthday"><span></span></div>
        <div class="buttons py-3">
            <button class="button login button rounded-3 p-1" id="login"><a
href="home.html">Log in</a></button>
            <button class="button signin button rounded-3 mx-lg-2 my-sm-2 my-2 p-1"
id="signin"><a href="home.html">Sign in</a></button>
        </div>
    </div>
</form>
</div>
</section>
</div>
<script src="app.js"></script>
</body>
</html>

```

Styles.css

```

.login-section{
    background-image: url(./bg-2.jpg);
    background-repeat: no-repeat;
    background-size: cover;
    display: flex;
    flex-wrap: nowrap;
}

.outer{
    background-color: #fc4c4c;
}

.form-div{
    /* height:42em; */
    width:33%;
}

button{
    border: none;
    background-color: #fc4c4c;
    color: white;
    width :5em;
}

button:hover{

```

```
    background-color: black;
}
a{
    color: white;
}
.control-input{
    width:95%;
}

/* Adding 3D effect on input focus */
input:focus {
    outline: none;
    box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.2), 0px 8px 16px rgba(0, 0, 0, 0.19);
    transform: translateY(-3px);
    transition: transform 0.2s ease, box-shadow 0.2s ease;
}

input:focus:active {
    transform: translateY(-2px);
    box-shadow: 0px 3px 6px rgba(0, 0, 0, 0.2), 0px 6px 12px rgba(0, 0, 0, 0.19);
}

/* Fade-in animation for the form */
@keyframes fadeIn {
    from { opacity: 0; transform: translateY(-20px); }
    to { opacity: 1; transform: translateY(0); }
}

.form-div {
    animation: fadeIn 0.5s ease-in-out;
}

/* Bouncing animation for the logo */
@keyframes bounce {
    0%, 100% { transform: translateY(0); }
    50% { transform: translateY(-10px); }
}

.svg-div {
```

```

        animation: bounce 1s infinite;
    }

    /* Lifting animation for the buttons */
    input:focus ~ .buttons button {
        transform: translateY(-3px);
        transition: transform 0.2s ease;
    }

    @media (max-width: 768px){
        .form-div{
            width: 80%;
        }

        .buttons{
            display: flex;
            flex-direction: column;
        }
    }
}

```

App.js

```

let name1 = document.getElementById("name");
let email = document.getElementById("email");
let username = document.getElementById("username");
let password = document.getElementById("password");
let rePassword = document.getElementById("re-password");
let birthday = document.getElementById("birthday");
let loginButton = document.getElementById("login");
let signinButton = document.getElementById("signin");

const nameRegex = /^[a-zA-Z\s']+$$/;
const emailRegex = /^[a-zA-Z0-9.] +@[a-zA-Z0-9.] +\.[a-zA-Z]{2,}$/;
const usernameRegex = /^[a-zA-Z0-9.-_]+$$/;
const passwordRegex = /^(?=.*[A-Z])(?=.*\d).+$/;
var birthdayRegex = /^\d{4}-(\d{2}|\d{1})-(\d{2}|\d{1})$/;

// console.log(name.previousElementSibling.innerText);

name1.addEventListener('input', validateName);
email.addEventListener('input', validateEmail);
username.addEventListener('input', validateUsername);
password.addEventListener('input', validatePassword);
rePassword.addEventListener('input', validateRepassword);

```

```

birthday.addEventListener('input', validateBirthday);
loginButton.addEventListener('click', checkLabelsBeforeSubmit);
// signinButton.addEventListener('click', checkLabelsBeforeSubmit);
function validateName(){
    if (nameRegex.test(name1.value)){
        name1.parentElement.previousElementSibling.lastElementChild.innerHTML = " valid";
        name1.parentElement.previousElementSibling.lastElementChild.style.color = "green";
        name1.parentElement.previousElementSibling.firstElementChild.style.color = "green";
        name1.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-check\"></i>"
        name1.nextElementSibling.style.color = "green"
        name1.setAttribute("class", "control-input border border-success border-2 rounded-2");
    }
    else{
        name1.parentElement.previousElementSibling.lastElementChild.innerHTML = " invalid name,
numbers & special chars. not allowed";
        name1.parentElement.previousElementSibling.lastElementChild.style.color = "red";
        name1.parentElement.previousElementSibling.firstElementChild.style.color = "red";
        name1.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-xmark\"></i>"
        name1.nextElementSibling.style.color = "red"
        name1.setAttribute("class", "control-input border border-warning border-2 rounded-2");
    }
}
function validateEmail(){
    if (emailRegex.test(email.value)){
        email.parentElement.previousElementSibling.lastElementChild.innerHTML = " valid";
        email.parentElement.previousElementSibling.lastElementChild.style.color = "green";
        email.parentElement.previousElementSibling.firstElementChild.style.color = "green";
        email.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-check\"></i>"
        email.nextElementSibling.style.color = "green"
        email.setAttribute("class", "control-input border border-success border-2 rounded-2");
    }
    else{
        email.parentElement.previousElementSibling.lastElementChild.innerHTML = " invalid email
format";
        email.parentElement.previousElementSibling.lastElementChild.style.color = "red";
        email.parentElement.previousElementSibling.firstElementChild.style.color = "red";
        email.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-xmark\"></i>"
        email.nextElementSibling.style.color = "red"
        email.setAttribute("class", "control-input border border-warning border-2 rounded-2");
    }
}

```



```

    }
}

function validateUsername(){
    if (usernameRegex.test(username.value)){
        username.parentElement.previousElementSibling.lastElementChild.innerHTML = " valid";
        username.parentElement.previousElementSibling.lastElementChild.style.color = "green";
        username.parentElement.previousElementSibling.firstElementChild.style.color = "green";
        username.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-check\"></i>"
        username.nextElementSibling.style.color = "green"
        username.setAttribute("class", "control-input border border-success border-2 rounded-2");
    }
    else{
        username.parentElement.previousElementSibling.lastElementChild.innerHTML = " username should
not have space";
        username.parentElement.previousElementSibling.lastElementChild.style.color = "red";
        username.parentElement.previousElementSibling.firstElementChild.style.color = "red";
        username.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-xmark\"></i>"
        username.nextElementSibling.style.color = "red"
        username.setAttribute("class", "control-input border border-warning border-2 rounded-2");
    }
}

function validatePassword(){
    if (passwordRegex.test(password.value) ){
        password.parentElement.previousElementSibling.lastElementChild.innerHTML = " valid";
        password.parentElement.previousElementSibling.lastElementChild.style.color = "green";
        password.parentElement.previousElementSibling.firstElementChild.style.color = "green";
        password.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-check\"></i>"
        password.nextElementSibling.style.color = "green"
        password.setAttribute("class", "control-input border border-success border-2 rounded-2");
    }
    else{
        password.parentElement.previousElementSibling.lastElementChild.innerHTML = " use atleast 1
capital letter and number";
        password.parentElement.previousElementSibling.lastElementChild.style.color = "red";
        password.parentElement.previousElementSibling.firstElementChild.style.color = "red";
        password.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-xmark\"></i>"
        password.nextElementSibling.style.color = "red"
        password.setAttribute("class", "control-input border border-warning border-2 rounded-2");
    }
}

```

```

}

function validateRepassword(){

    if (rePassword.value.match(password.value)){

        rePassword.parentElement.previousElementSibling.lastElementChild.innerHTML = " valid";
        rePassword.parentElement.previousElementSibling.lastElementChild.style.color = "green";
        rePassword.parentElement.previousElementSibling.firstElementChild.style.color = "green";
        rePassword.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-check\"></i>"
        rePassword.nextElementSibling.style.color = "green"
        rePassword.setAttribute("class", "control-input border border-success border-2 rounded-2");

    }

    else{

        rePassword.parentElement.previousElementSibling.lastElementChild.innerHTML = " password
doesn't match";
        rePassword.parentElement.previousElementSibling.lastElementChild.style.color = "red";
        rePassword.parentElement.previousElementSibling.firstElementChild.style.color = "red";
        rePassword.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-xmark\"></i>"
        rePassword.nextElementSibling.style.color = "red"
        rePassword.setAttribute("class", "control-input border border-warning border-2 rounded-2");

    }

}

function checkLabelsBeforeSubmit(event) {

    // Select all the labels with the class 'col-form-label'

    let labels = document.getElementsByTagName("label");

    // Iterate through each label
    for (i=0;i<labels.length;i++) {

        // Check if the label or its associated icon span is not green
        if (labels[i].style.color !== "green") {

            event.preventDefault();

            alert("Please enter valid values in the form correctly to proceed.");

            return;

        }

    }

}

function validateBirthday() {

    // var birthday = document.getElementById("birthday").value; // Assuming the input element has an
id="birthday"

    // var birthdayRegex = /^\d{4}-\d{2}-\d{2}$/;

```

```

// Validate format using regex
if (!birthdayRegex.test(birthday.value)) {
    birthday.parentElement.previousElementSibling.lastElementChild.innerHTML = " invalid date
format";

    birthday.parentElement.previousElementSibling.lastElementChild.style.color = "red";
    birthday.parentElement.previousElementSibling.firstElementChild.style.color = "red";
    birthday.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-xmark\"></i>"
    birthday.nextElementSibling.style.color = "red"

    birthday.setAttribute("class", "control-input border border-warning border-2 rounded-2");
} else {
    var date = birthday.value.split("-");
    var year = parseInt(date[0]);
    var month = parseInt(date[1]) - 1; // JavaScript months are 0-indexed
    var day = parseInt(date[2]);

    var birthDate = new Date(year, month, day);

    // Check if the constructed date is valid
    if (birthDate.getFullYear() !== year || birthDate.getMonth() !== month || birthDate.getDate()
    !== day) {
        birthday.parentElement.previousElementSibling.lastElementChild.innerHTML = " invalid
date";

        birthday.parentElement.previousElementSibling.lastElementChild.style.color = "red";
        birthday.parentElement.previousElementSibling.firstElementChild.style.color = "red";
        birthday.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-xmark\"></i>"
        birthday.nextElementSibling.style.color = "red"

        birthday.setAttribute("class", "control-input border border-warning border-2 rounded-2");
        console.log(birthDate.getFullYear());
        console.log(birthDate.getMonth());
        console.log(birthDate.getDate());
    }

    // Check if age is more than 18 years
    else {
        var today = new Date();
        var age = today.getFullYear() - birthDate.getFullYear();
        var monthDiff = today.getMonth() - birthDate.getMonth();

        if (monthDiff < 0 || (monthDiff === 0 && today.getDate() < birthDate.getDate())) {
            age--;

```

```

    }

    if (age < 18) {
        birthday.parentElement.previousElementSibling.lastElementChild.innerHTML = " age below
18";

        birthday.parentElement.previousElementSibling.lastElementChild.style.color = "red";
        birthday.parentElement.previousElementSibling.firstElementChild.style.color = "red";
        birthday.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-xmark\"></i>"
        birthday.nextElementSibling.style.color = "red"

        birthday.setAttribute("class", "control-input border border-warning border-2 rounded-
2");

        // loginButton.style.background = "grey";
        loginButton.setAttribute('disabled', true);
        loginButton.style.background="grey";
        loginButton.children[0].removeAttribute("href")
        signinButton.setAttribute('disabled', true);
        signinButton.style.background="grey";
        signinButton.children[0].removeAttribute("href")
    } else {
        // If valid, clear any previous error messages
        birthday.parentElement.previousElementSibling.lastElementChild.innerHTML = " valid";
        birthday.parentElement.previousElementSibling.lastElementChild.style.color = "green";
        birthday.parentElement.previousElementSibling.firstElementChild.style.color = "green";
        birthday.nextElementSibling.innerHTML = " <i class=\"fa-solid fa-check\"></i>"
        birthday.nextElementSibling.style.color = "green"

        birthday.setAttribute("class", "control-input border border-success border-2 rounded-
2");

        loginButton.setAttribute('disabled', false);
        loginButton.style.background="#fc4c4c";
        loginButton.children[0].setAttribute("href", "home.html")
        signinButton.setAttribute('disabled', false);
        signinButton.style.background="#fc4c4c";
        signinButton.children[0].setAttribute("href", "home.html")
    }
}
}
}
}

```