Report – JavaScript lab

Validation alerts

Registration Form

Aravind	✅
Venkateswaran	✅
ara@arac	✖
password	
Type password again	
23/11/1818	✖

Invalid date. Make sure format is DD/MM/YYYY within valid period

Select/Type Gender

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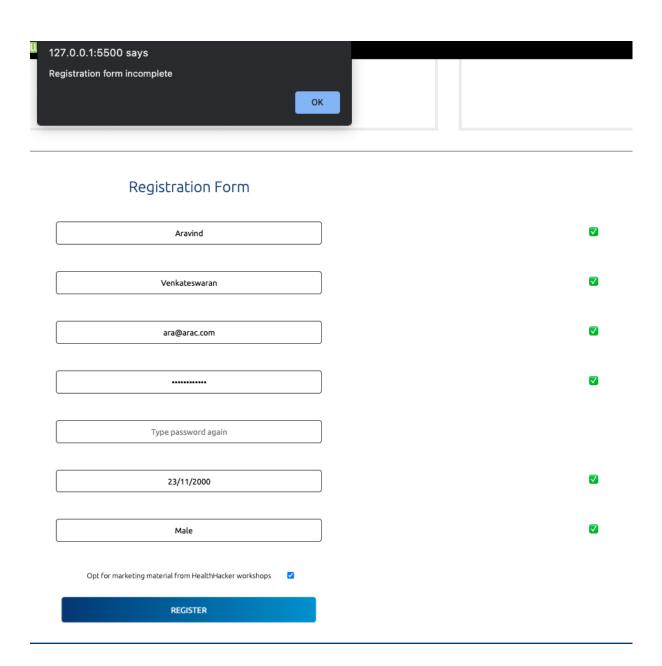
REGISTER

This is validation performed prior to form submission and has helpful icons next to fields to help user. Some fields also have an helpful message for user to read.

127.0.0.1:5500 says

Your reponse in the email field is invalid

OK

Registration Form

| Aravind | ✅ |

| Venkateswaran | ✅ |

| ara@arac | ❌ |

| ••••••••••••• | ✅ |

| ••••••••••••• | ✅ |

| 23/11/2000 | ✅ |

| Male | ✅ |

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REGISTER

If the form is submitted with an error, an alert prevents submission and directs user to properly fill the invalid field.

Registration Form

Aravind ✅

Venkateswaran ✅

ara@arac.com ✅

•••••••••••• ✅

Type password again

23/11/2000 ✅

Male ✅

Opt for marketing material from HealthHacker workshops ☑

REGISTER

If the form is incomplete, a similar alert pops up informing the user to fill it completely.

Important code blocks

```javascript
// Toggles validation icon based on input
function toggleVisibility(toggleCondition,objectToToggle,notEmpty){
    if(toggleCondition){
        objectToToggle.classList.remove("hidden")
        objectToToggle.classList.add("visible")
        objectToToggle.innerHTML = "✅"
    }else if(notEmpty){
        objectToToggle.classList.remove("hidden")
        objectToToggle.classList.add("visible")
        objectToToggle.innerHTML = "❌"
    }else{
        objectToToggle.classList.remove("visible")
        objectToToggle.classList.add("hidden")
        objectToToggle.innerHTML = "NA"
    }

}
```

This function validates all inputs. It is provided with a Boolean as first argument, the element to place the icon in the second and another Boolean that indicates whether field is empty as the third. If empty, no icon is shown, if filled and toggleCondition (validation) is false, cross appears. If all is good, a tick appears in the element provided.

```javascript
// Final submit form validation
function validateForm() {
    let messages = document.getElementsByName("messages")

    // Loops to check if all fields contain tick
    for (let message of messages){
        if (message.innerHTML == "✅"){
            continue

        // If invalid input, user alerted
        }else if (message.innerHTML == "❌"){
            let regex = /([A-Za-z]+)\d?Message/
            const match = message.id.match(regex)
            alert(`Your reponse in the ${match[1]} field is invalid`)
            return false

        // If no input, user alerted
        }else if (message.innerHTML == "NA"){
            alert("Registration form incomplete")
            return false
        }
    }

    // Final message to thank user after everything passes
    let firstName = document.getElementsByName("firstName")[0].value
    document.getElementById("email-collector").classList.add("vanish")
    document.getElementById("form-header").innerHTML = `
    Thank you for registering, ${firstName}!`
    return true
}
```

This function runs when form is submitted. It alerts user if something is wrong and prevents submission. This is performed by checking if all validation fields have the tick icon. If crosses or no icon is present, an appropriate alert message is produced.

Design motivation

I wanted my form to look minimalistic and professional, but at the same time, I did not want my validation code to be complicated. By having same names for all validation elements, It was easy for me to loop through and check relevant emojis to indicate users. I also wanted my alert statements to make sense (personalized field information) and this was also a reason for me to pursue this style.