

hw4.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width,
initial-scale=1.0" />
    <title>HW4 Form</title>
    <link rel="stylesheet" href="./hw4.css" />
    <script src="./hw4.js"></script>
    <link rel="preconnect"
href="https://fonts.googleapis.com" />
    <link rel="preconnect" href="https://fonts.gstatic.com"
crossorigin />
    <link
      href="https://fonts.googleapis.com/css2?family=Mont
serrat:wght@300&family=Pacifico&family=Quicksand:wght@300;400&f
amily=Rubik+Bubbles&display=swap"
      rel="stylesheet"
    />
    <script>
      function trigger() {
        document.getElementById("validation").innerHTML
=" "
        let loopinputs =
document.getElementsByName("input");
        let looplabels =
document.getElementsByTagName("label");
        console.log(loopinputs)
        console.log(looplabels)
        for (var i = 0; i < loopinputs.length; i++) {
          validator.isEmpty(loopinputs[i].value);
          if(validator.isValid()===false){
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        document.getElementById("validation
").innerHTML += "The value for " + looplabels[i].textContent +
" is empty. Please fill it out! <br />"
    }

    if (loopinputs[i].getAttribute('id') ===
"email" && validator.isValid()===true) {
        validator.isValidEmail(loopinputs[i].va
lue);

        if(validator.isValid()===false){
            document.getElementById("validation
").innerHTML += "The email you entered was not valid. <br />"
        }
    }
    if (loopinputs[i].getAttribute('id') ===
"positivenumber"&& validator.isValid()===true) {
        validator.isPositiveInteger(
            Number(loopinputs[i].value)
        );
        if(validator.isValid()===false){
            document.getElementById("validation
").innerHTML += "The number you entered was not a positive
integer. <br />"
        }
    }
    if (loopinputs[i].getAttribute('id') ===
"negativenumber"&& validator.isValid()===true) {
        validator.isNegativeInteger(
            Number(loopinputs[i].value)
        );
        if(validator.isValid()===false){
            document.getElementById("validation
").innerHTML += "The number you entered was not a negative
integer. <br />"
        }
    }
}

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    }
    if(document.getElementById("validation").innerHTML
TML=== "")
    {
        for (var i = 0; i < loopinputs.length; i++)
        {
            loopinputs[i].value='';
        }

        alert("Your inputs were all valid!")
    }
};
const validator = (function () {
    // ...
    let isValid = true;
    return {
        isNumeric: function (text) {
            if (typeof text !== "number") {
                isValid = false;
            }
        },
        isInteger: function (text) {
            /* ... */
            if (
                typeof text === "number" &&
                text !== Math.floor(text)
            ) {
                return (isValid = true);
            } else {
                isValid = false;
            }
        },
        isNegativeInteger: function (text) {
            /* ... */
            if (

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        typeof text === "number" &&
        text === Math.floor(text) &&
        text < 0
    ) {
        return (isValid = true);
    } else {
        isValid = false;
    }
},
isPositiveInteger: function (text) {
    /* ... */
    if (
        typeof text === "number" &&
        text === Math.floor(text) &&
        text > 0
    ) {
        return (isValid = true);
    } else {
        isValid = false;
    }
},
isNonNegativeInteger: function (text) {
    /* ... */
    if (
        typeof text === "number" &&
        text === Math.floor(text) &&
        text >= 0
    ) {
        return (isValid = true);
    } else {
        isValid = false;
    }
},
isInRange: function (text, m, n) {
    /* ... */
    if (typeof text !== "number") {

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        isValid = false;
        return;
    }
    if (m && n && m < n && text >= m &&
text <= n) {
        return (isValid = true);
    }

    if (m && !n && text >= m) {
        return (isValid = true);
    } else {
        isValid = false;
    }
},
isValidEmail: function (text) {
    /* ... */
    let emailFormat =
        /(?:[a-z0-9!#$%&'*/+=?^_`{|}~-
]+(?:\.(?:[a-z0-9!#$%&'*/+=?^_`{|}~-
\x08\x0b\x0c\x0e-\x1f\x21\x23-\x5b\x5d-\x7f]|\.[\x01-
\x09\x0b\x0c\x0e-\x7f]))*)@(?:((?:[a-z0-9](?:[a-z0-9-
9])?\.)+[a-z0-9](?:[a-z0-9-9])?|\[(?:25[0-5]|2[0-
4][0-9]|[01]?[0-9][0-9]?)\.)\{3\}(?:25[0-5]|2[0-4][0-9]|[01]?[0-
9][0-9]?|[a-z0-9-]*[a-z0-9]:(?:[\x01-\x08\x0b\x0c\x0e-\x1f\x21-
\x5a\x53-\x7f]|\.[\x01-\x09\x0b\x0c\x0e-\x7f])+\))\)/;
    if (typeof text==="string" &&
text.match(emailFormat)) {
        return (isValid = true);
    } else {
        isValid = false;
    }
},

isEmpty: function (text) {
    /* ... */
    if (!text || text==="undefined") {

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        isValid = false;
    }
    else{
        isValid=true;
    }
},
matchesRegex: function (text, regex) {
    /* ... */

    let regexFormat = regex;

    if (text.match(regexFormat)) {
        return (isValid = true);
    } else {
        isValid = false;
    }
},
lengthInRange: function (text, m, n) {
    /* ... */
    if (typeof text !== "string") {
        isValid = false;
        return;
    }
    if (
        m &&
        n &&
        m < n &&
        text.length >= m &&
        text.length <= n
    ) {
        return (isValid = true);
    }

    if (m && !n && text.length >= m) {
        return (isValid = true);
    } else {

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        isValid = false;
    }
},
isValid: function () {
    /* ... */
    return isValid;
},
reset: function () {
    /* ... */
    isValid = true;
},
};
})();
</script>
</head>
<body>
    <div class="container">
        <div id="validation" class="red"></div>
        <form action="">
            <label for="name">Full Name </label><span
class="red">*</span>
            <input id="name" name="input" type="text" />
            <label for="email">Email </label><span
class="red">*</span>
            <input id="email" name="input" type="text" />
            <label for="book"
            >Favorite Book </label>
            <span class="red">*</span>
            <input id="book" name="input" type="text" />
            <label for="positivenumber">Positive Integer to
Check</label><span class="red">*</span>
            <input id="positivenumber" name="input"
type="number" />
            <label for="negativenumber">Negative Integer to
Check</label><span class="red">*</span>

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        <input id="negativenumber" name="input"
type="number" />
        <input type="button" onclick="trigger()"
value="Submit Inputs"></input>
    </form>
</div>
</body>
</html>

```

hw4.css

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/* Style inputs with type="text", select elements and textareas
*/
input[type="text"],
input[type="number"],
input[type="email"],
select,
textarea {
    width: 100%; /* Full width */
    padding: 12px; /* Some padding */
    border: 1px solid #ccc; /* Gray border */
    border-radius: 4px; /* Rounded borders */
    box-sizing: border-box; /* Make sure that padding and width
stays in place */
    margin-top: 6px; /* Add a top margin */
    margin-bottom: 16px; /* Bottom margin */
    resize: vertical; /* Allow the user to vertically resize
the textarea (not horizontally) */
}

/* Style the submit button with a specific background color etc
*/
input[type="button"] {
    background-color: #04aa6d;
    color: white;
}

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padding: 12px 20px;
border: none;
border-radius: 4px;
cursor: pointer;
}

/* When moving the mouse over the submit button, add a darker
green color */
button[type="submit"]:hover {
    background-color: #45a049;
}

/* Add a background color and some padding around the form */
.container {
    border-radius: 5px;
    background-color: #f2f2f2;
    padding: 20px;
}

label {
    font-family: "Montserrat", sans-serif;
}

.red {
    color: red;
    font-size: large;
}
```