

# Website Enhancement Report

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## Website Background

Brenda's Glass expression is a family-owned business in Comox Valley, Northern Vancouver Island. It provides a variety of glass-related goods, services, and solutions. According to the website's description and appears to be a business that specialises in the production, processing, and distribution of glass products like tempered glass, laminated glass, insulated glass, ornamental glass, and more. The company offers a wide range of glass services, including custom glass cutting, edge polishing, drilling.

Brenda's Glass expression appears to be a reputable and reliable company with extensive experience of sixteen years in the glass industry. The website is well-designed, user-friendly, and provides a wealth of information for customers looking to purchase glass products or services.

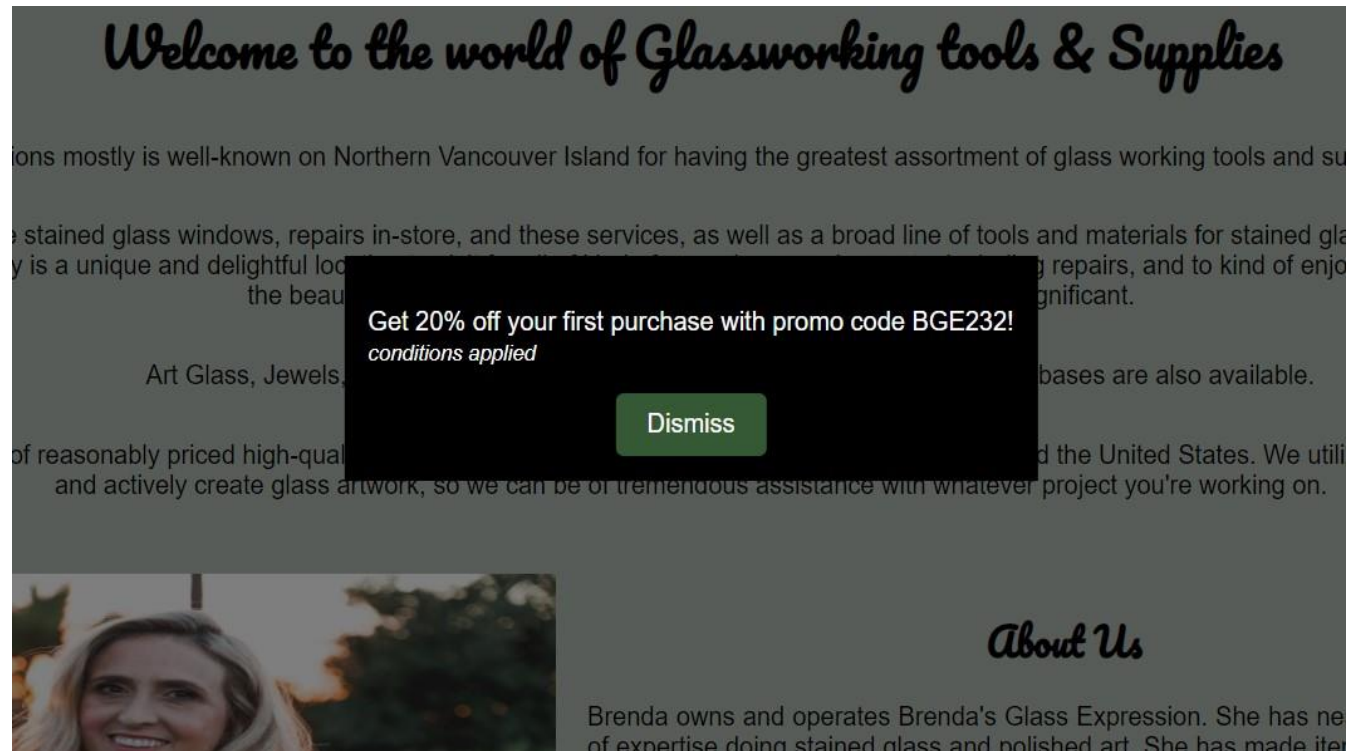
# Features

## 1. Popup message

While popups can be effective in grabbing users, onload of home page loads small pop-up that can be easily dismissed which communicate the promo or discount to the user.

Using a small popup that communicates a promo or discount to the user upon the onload of the homepage can be an effective strategy to grab the user's attention.

I tried to keep the message simple and clearly communicating the promo or discount being offered. The popup should be easy to dismiss, allowing the user to continue browsing the site without interruption. Included a "Dismiss" button, and make sure the popup does not reappear after dismissal.



Html code:

```
<div id="idOverlayHome"></div>
  <div id="idPopupPromo" style="display:none;">
    <p>Get 20% off your first purchase with promo code BGE232!<br>
    <small><i>conditions applied</i></small></p>
    <button id="idPopupDismiss">Dismiss</button>
  </div>
```

JavaScript code:

```
window.onload = function () {
  var popup = document.getElementById("idPopupPromo");
  var overlay = document.getElementById("idOverlayHome");
  var dismissButton = document.getElementById("idPopupDismiss");

  dismissButton.onclick = function () {
    overlay.style.display = "none";
    popup.style.display = "none";
  }

  overlay.style.display = "block";
  popup.style.display = "block";
}
```

CSS code:

```
#idOverlayHome {
  position: fixed;
```

```
top: 0;
left: 0;
right: 0;
bottom: 0;
background-color: rgba(0, 0, 0, 0.5);
z-index: 999;
display: none;
}

#idPopupPromo {
  position: fixed;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  background-color: #000000;
  color: #ffffff;
  padding: 1%;
  z-index: 1000;
}

#idPopupDismiss {
  display: block;
  margin: 0 auto;
  text-align: center;
  padding: 10px 20px;
  background-color: #355835;
  color: white;
  font-size: 16px;
  border: none;
  border-radius: 5px;
  cursor: pointer;
}
```

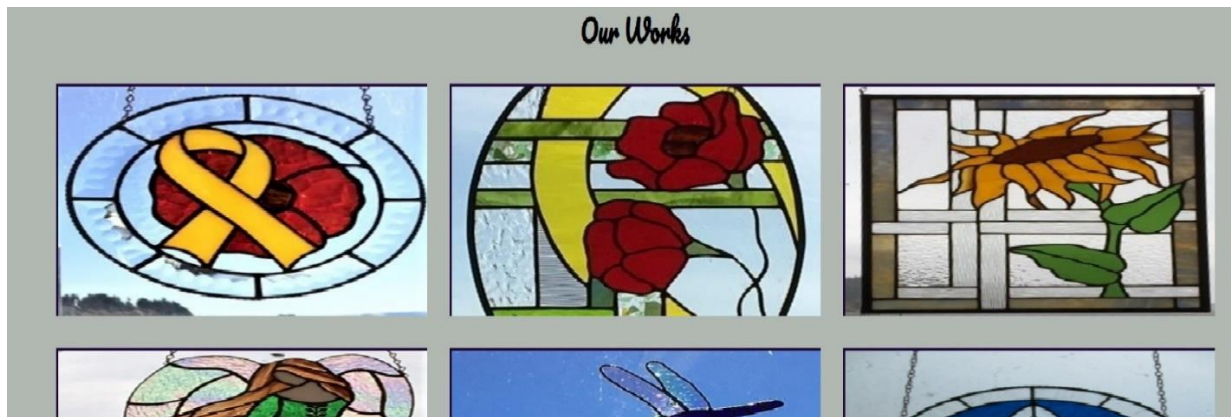
## 2. Image popout

Increasing the height and width of images on the home page and adding a mouse enter event.

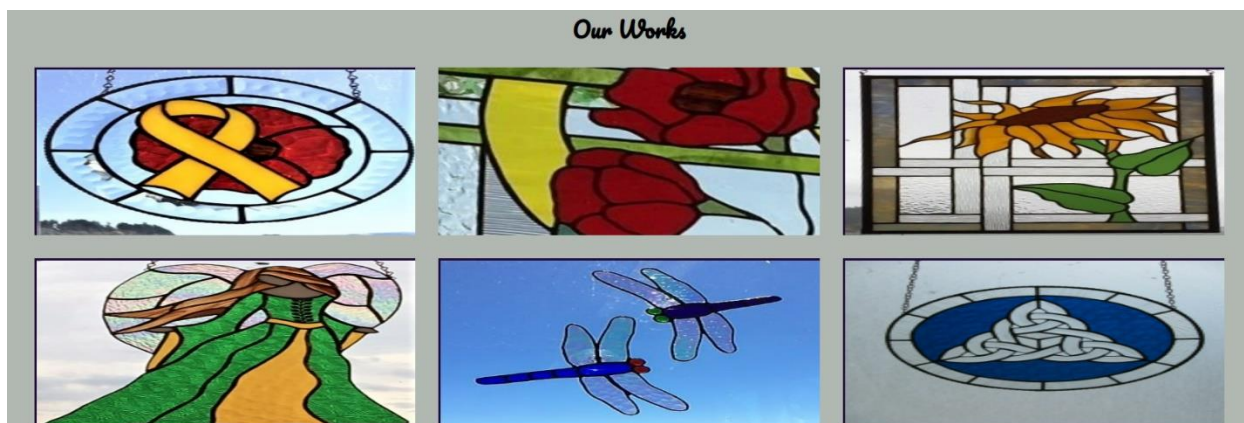
Larger images can make the page more visually appealing and help to grab the user's attention. They can also showcase products or services in more detail, allowing users to see the features and benefits more clearly.

Adding a mouse enter event to the images can encourage users to interact with the page and engage more with the

content. This can create a more immersive experience and increase the time users spend on the site.



Onhover



JavaScript code:

```
const singleBoxes = document.querySelectorAll('.single-box');
singleBoxes.forEach(singleBox => {
  const aElement = singleBox.querySelector('a');
  const imgElement = singleBox.querySelector('a img');

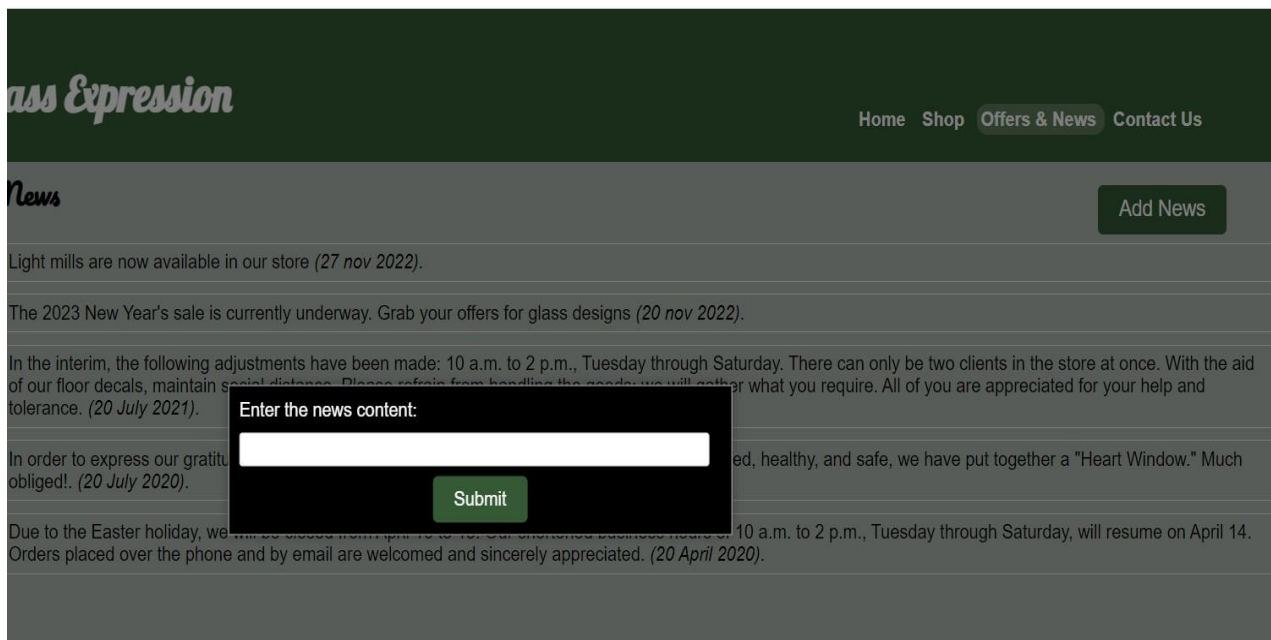
  aElement.addEventListener('mouseenter', () => {
    imgElement.style.transform = 'rotate(5deg) scale(1.4)';
  });

  aElement.addEventListener('mouseleave', () => {
    imgElement.style.transform = 'none';
  });
});
```

### 3. Add news dynamically.

By including an add icon, users will be able to add news to the news page by prompt popup and have it appear in the news sections.

Allowing users to add news to the news page can increase user engagement and encourage them to interact more with the site. By allowing users to add news to the site, the site will have a more diverse and constantly evolving range of content. This can help to keep the site relevant and up-to-date and provide users with a reason to return to the site.



#### Html Code:

```
<div class="overlay"></div>
  <div class="prompt" style="display: none">
    <p>Enter the news content:</p>
    <input type="text" id="txtNews">
    <button id="btnNewsSubmit">Submit</button>
```



```
</div>
```

## JavaScript code:

```
// get value from local storage
var pItem = localStorage.getItem("pItem");
var newsItem = CreatePtag(pItem);
newsSection.appendChild(newsItem);

var btnAddNews = document.getElementById("btnAddNews");
btnAddNews.addEventListener("click", showPrompt, true);

var btnNewsSubmit = document.getElementById("btnNewsSubmit");
btnNewsSubmit.addEventListener("click", addNews);

function showPrompt(value) {
    const divPrompt = document.querySelector('.prompt');
    const divOverlay = document.querySelector('.overlay');
    if (value) {
        divOverlay.style.display = 'block';
        divPrompt.style.display = 'block';
    }
    else {
        divOverlay.style.display = 'none';
        divPrompt.style.display = 'none';
    }
}

// add dynamic news to the news page.
function addNews() {
    var newsContent = document.getElementById("txtNews");
    // Check newsContent is empty
    if (newsContent.value != "") {
        // Create a new HTML element to display the news
        var newsItem = document.createElement("p");
        newsItem.innerHTML = newsContent.value;
        newsItem.classList.add("newsTransform");

        // Create a new date object
        var currentDate = new Date();

        // Array of month names
        var monthNames = ["January", "February", "March", "April", "May", "June",
            "July", "August", "September", "October", "November", "December"];

        // Format the date as "day Month year"
        var formattedDate = currentDate.getDate() + " " +
            monthNames[currentDate.getMonth()] + " " + currentDate.getFullYear();

        // Create a new <i> element
```

```
var dateElement = document.createElement("i");

// Set the inner text of the <i> element to the formatted date
dateElement.innerText = " (" + formattedDate + ").";

// Append the <i> element to the newsItem
newsItem.appendChild(dateElement);
// Append the new news item to the news section
var newsSection = document.getElementById("idContainerNews");
newsSection.appendChild(newsItem);
// Set the local storage with the p tag content
localStorage.setItem("pItem", newsItem.innerHTML)
showPrompt(false);
}
```

## CSS code:

```
.overlay {
  position: fixed;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  background-color: rgba(0, 0, 0, 0.5);
  z-index: 998;
  display: none;
}

.prompt {
  position: fixed;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  background-color: #000000;
  color: #ffffff;
  border: 1px solid #ccc;
  padding: 10px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.3);
  z-index: 999;
  width: 30%;
}

.prompt p {
  margin: 0 0 10px;
}

.prompt input[type="text"] {
  padding: 5px;
}
```

```

border: 1px solid #ccc;
border-radius: 3px;
width: 95%;
}

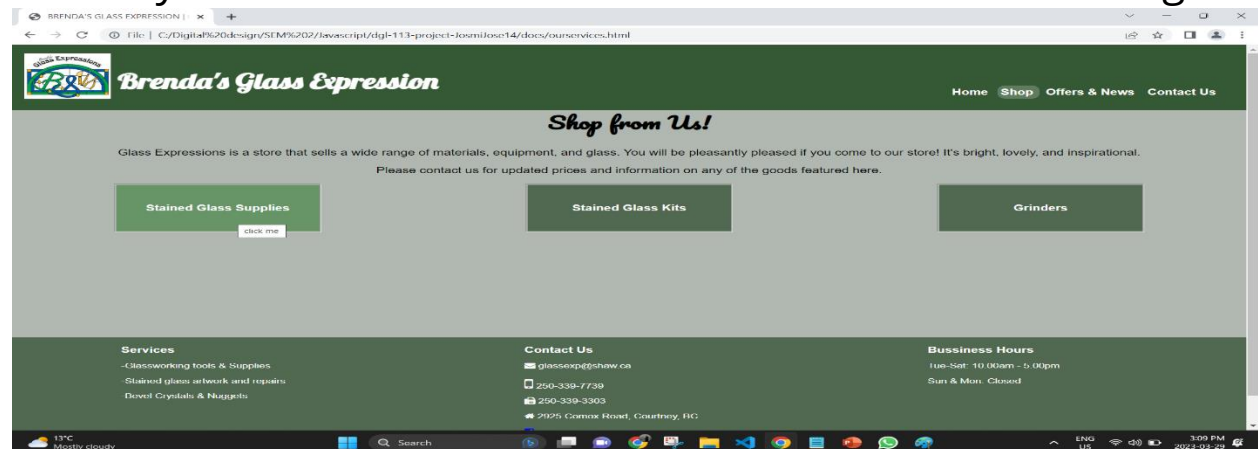
.prompt button {
display: block;
margin: 0 auto;
text-align: center;
padding: 10px 20px;
background-color: #355835;
color: white;
font-size: 16px;
border: none;
border-radius: 5px;
cursor: pointer;
margin-top: 8px;
}

```

## 4. On-hover effect

By including an on-hover effect to the button, the user is made aware that when they click the services button on the service page, they may view detailed services.

The on-hover effect can provide a visual cue to users that the services button is clickable and will display additional information when clicked. This can help to improve the usability of the site and make it easier for users to navigate.



JavaScript code:

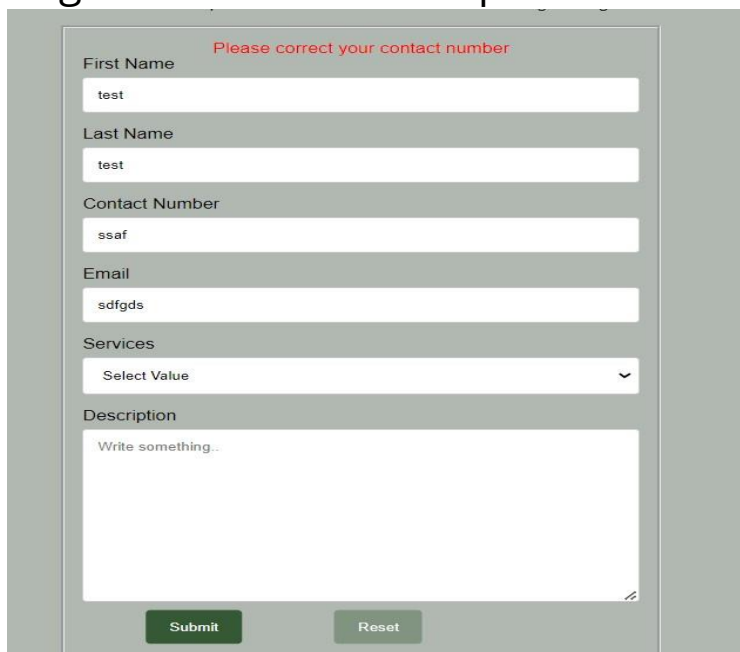
```
//getting the label properties using id in service.html
```

```
var lblCollapseSupplies = document.getElementById("idCollapseSupplies");
lblCollapseSupplies.addEventListener("mouseenter", mouseEnter);
lblCollapseSupplies.addEventListener("mouseleave", mouseLeave);

function mouseEnter(e) {
    this.title = "click me";
    this.style.backgroundColor = "#679567";
}
function mouseLeave() {
    this.style.backgroundColor = "#516851";
};
```

## 5. Submit Button validation.

Make sure that the contact page form's mandatory fields are accurately filled out by adding a validation feature. Also, additional text boxes for the phone number and email address should be added, and proper regex validation should be used to guarantee that the input is in the right format.



The image shows a contact form with the following fields and elements:

- First Name:** Text input with "test" entered.
- Last Name:** Text input with "test" entered.
- Contact Number:** Text input with "ssaf" entered. Above this field is a red error message: "Please correct your contact number".
- Email:** Text input with "sdfgds" entered.
- Services:** A dropdown menu with "Select Value" and a downward arrow.
- Description:** A text area with the placeholder text "Write something..".
- Buttons:** "Submit" and "Reset" buttons at the bottom.

## JavaScript code:

```
//Submit button
const submitBtn = document.getElementById('btnSubmit');
submitBtn.addEventListener("click", validateInputfield);

//input fields in a form
const txtFirstName = document.getElementById("fname");
const txtLastName = document.getElementById("lname");
const txtContactNumber = document.getElementById("number");
const txtEmail = document.getElementById("email");
const drpSelect = document.getElementById("chooseItem");
const txtDescription = document.getElementById("description");
const lblError = document.getElementById("lblError");
// Prevent form submission if any fields have errors
function validateInputfield(e) {
    validateNameRegex(txtFirstName);
    validateNameRegex(txtLastName);
    validateSelection();
    validateMessage();
    validateContactRegex();
    validateEmailRegex();
    if (txtFirstName.value === "") {
        lblError.innerHTML = "Please enter first name"
        e.preventDefault();
    }
    else if (txtLastName.value === "") {
        lblError.innerHTML = "Please enter last name"
        e.preventDefault();
    }
    else if (txtContactNumber.value === "") {
        lblError.innerHTML = "Please enter contact number"
        e.preventDefault();
    }
    else if (txtEmail.value === "") {
        lblError.innerHTML = "Please enter email"
        e.preventDefault();
    }
    else if (txtFirstName.classList.contains("error")) {
        lblError.innerHTML = "Please use alphabets in first name"
        e.preventDefault();
    }
    else if (txtLastName.classList.contains("error")) {
        lblError.innerHTML = "Please use alphabets in last name"
        e.preventDefault();
    }
    else if (txtContactNumber.classList.contains("error")) {
        lblError.innerHTML = "Please correct your contact number"
        e.preventDefault();
    }
    else if (txtEmail.classList.contains("error")) {
        lblError.innerHTML = "Please format your email"
    }
}
```

```
        e.preventDefault();
    }
    else if (drpSelect.classList.contains("error")) {
        lblError.innerHTML = "Please use select a value from services"
        e.preventDefault();
    }
    else if (txtDescription.classList.contains("error")) {
        lblError.innerHTML = "Please enter description"
        e.preventDefault();
    }
    //Add style through javascript
    lblError.style.color = "red";
}
```

```
/// validation on contact form
//validate the name
function validateNameRegex(name) {
    const nameRegex = /^[a-zA-Z\s]+$/;
    if (!nameRegex.test(name.value)) {
        name.classList.add("error");
    } else {
        name.classList.remove("error");
    }
}

//validate the contact number format
function validateContactRegex() {
    const phoneNumberRegex = /^\d{10}$/;
    if (!phoneNumberRegex.test(txtContactNumber.value)) {
        txtContactNumber.classList.add("error");
    } else {
        txtContactNumber.classList.remove("error");
    }
}

//validate the email format
function validateEmailRegex() {
    const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    if (!emailRegex.test(txtEmail.value)) {
        txtEmail.classList.add("error");
    } else {
        txtEmail.classList.remove("error");
    }
}

// Validate the message field
function validateMessage() {
    if (txtDescription.value === "") {
        txtDescription.classList.add("error");
    } else {
        txtDescription.classList.remove("error");
    }
}
```

```

    }
}

// Validate the dropdown field
function validateSelection() {
    if (drpSelect.value === "Selected") {
        drpSelect.classList.add("error");
    } else {
        drpSelect.classList.remove("error");
    }
}
}

```

## 6. Reset Button confirm popup.

Users who want to reset all the fields at once may find it useful if a reset button is included on the contact us page. I also think about including a confirmation dialogue box to prevent unintentional clicks.

Please correct your contact number

First Name  
test

Last Name  
test

Contact Number  
ssaf

Email  
sdfgds

Services  
Select Value

Description  
Write something...

Wednesday	9am - 5pm
Thursday	9am - 5pm
Friday	9am - 5pm
Saturday	9am - 5pm
Sunday	Closed
Monday	Closed

All statutory holidays are closed, and tuesdays following a holiday monday.

Connect With Us

2925 Comox Rd, Courtenay, BC  
339-7739  
sexp@shaw.ca  
book an appointment!

Check us out on Google Maps!

Glass Expressions  
2925 Comox Rd, Courtenay, BC V9N 3P7  
4.5 ★★★★★ 12 reviews  
View larger map

Are you sure you want to delete this item?

Yes

No

## Html code:

```
<div id="idOverlay"></div>
  <div id="confirmPopup">
    <div class="message">Are you sure you want to delete this item?</div>
    <button id="confirmBtn" onclick=" handleConfirm()">Yes</button>
    <button id="cancelBtn" onclick="hideConfirmation(event)">No</button>
  </div>
```

## JavaScript code:

```
//Reset button
const resetBtn = document.getElementById('btnReset');
//Contact page
const divOverlay = document.getElementById('idOverlay');
const divConfirmPopup = document.getElementById('confirmPopup');
resetBtn.addEventListener("click", showConfirmPopup);
// show hide button popup
function hideConfirmPopup() {
  divOverlay.style.display = 'none';
  divConfirmPopup.style.display = 'none';
}
// reset confirm button click
function handleConfirm() {
  hideConfirmPopup();
  document.getElementById('frmContact').reset();
  lblError.innerHTML = "";
}
// reset cancel button click
function hideConfirmation(event) {
  event.preventDefault();
  hideConfirmPopup();
}
```



# HTML Validation

W3C Markup Validation Service, which is a tool that allows you to validate the markup (HTML, XHTML, etc.) of a web page to ensure that it follows the rules of the language and is free from errors.

To use the tool, you would need to upload the HTML file you want to validate or enter the URL of the web page you want to check, and then click the "Check" button. The tool will then analyze the code and provide a report of any errors or warnings that it finds.

## 1. Home.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

#### Showing results for home.html

Checker Input

Show

☐ source

☐ outline

☐ image report

Options...

Check by

file upload

Choose File

No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Check

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 17 milliseconds.

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## 2. Contactus.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

#### Showing results for contactus.html

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...](#)

Check by [file upload](#) [Choose File](#) No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 19 milliseconds.

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## 3.news.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

#### Showing results for news.html

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...](#)

Check by [file upload](#) [Choose File](#) No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 13 milliseconds.

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## 4.Ourservices.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

#### Showing results for ourservices.html

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...](#)

Check by [file upload](#)  No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

**Document checking completed. No errors or warnings to show.**

Used the HTML parser.

Total execution time 15 milliseconds.


[About this checker](#) • [Report an issue](#) • Version: 23.3.24

# CSS Validation

W3C CSS Validation Service, which is a tool that allows you to validate the CSS code of a web page to ensure that it follows the rules of the language and is free from errors.

To use the tool, you would need to enter the URL of the web page you want to check, or upload the CSS file you want to validate, and then click the "Check" button. The tool will then analyze the code and provide a report of any errors or warnings that it finds.

## 1. contactus.css


**The W3C CSS Validation Service**  
W3C CSS Validator results for contactus.css (CSS level 3 + SVG)

---

[Jump to:](#)
[Warnings \(2\)](#)
[Validated CSS](#)


---

W3C CSS Validator results for contactus.css (CSS level 3 + SVG)

**Congratulations! No Error Found.**

This document validates as [CSS level 3 + SVG](#) !


To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTMl code:



```

<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>

```



```

<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>

```

## 2.home.css



**The W3C CSS Validation Service**  
 W3C CSS Validator results for home.css (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

### W3C CSS Validator results for home.css (CSS level 3 + SVG)

#### Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates.



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```

## 3. Ourservice.css

Jump to: [Warnings \(2\)](#) [Validated CSS](#)

### W3C CSS Validator results for ourservices.css (CSS level 3 + SVG)

#### Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the Web page:



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```

## 4.news.css

---

### W3C CSS Validator results for news.css (CSS level 3 + SVG)

**Congratulations! No Error Found.**

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the Web page:



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```

## Project Work Experience

Overall, by incorporating my knowledge for implementing Popup messages, image popouts, and dynamically adding news which enhance the user experience on your website and provide users with more engaging and interactive content.

I struggled to implement all the features in different HTML files in one JS file, it's important to ensure that the JS file is properly linked to all the HTML files where the features are needed. If the JS file is not properly linked, the features may not work as expected it throws errors result in working features in a page.

Regarding the issue with the reset button clearing the data entered in input fields, this is the expected behavior of a reset button. When a user clicks on the reset button, it will clear all the input fields in the form. In my case I need to show a confirm popup and fixing the error I use `e.preventDefault();` on reset button click.

### **Browser versions**

Chrome – 111.0.5563

Firefox – 111.0.1

## Conclusion

The website now includes a small popup message has been added on the home page, which communicates any current promos or discounts to the user. Images have also been updated to include an on-focus effect, and the news page now includes an add icon, allowing users to add news to the page.

A reset button on the contact page, which enables users to reset all fields at once. A confirmation dialogue box has also been added to prevent unintentional clicks. Additionally, a submit button has been implemented, which includes validation features for mandatory fields, along with proper regex validation for email and phone number inputs.

Finally, the services page now includes an on-hover effect, which lets users know that detailed services will be displayed upon clicking the services button. Overall, these changes improve the user experience of the website, making it more user-friendly and engaging.