# TECHNICAL

# PART 1

## ANALYSIS OF FINAL WEBSITE

POLIZZICARLA.GITHUB.IO/MOVIMENTGRAFITTI-RE-DESIGN/

### RESPONSIVENESS

The final website is fully responsive and can adapt to different screen sizes and devices. I have tested it on various devices, including desktops, laptops, tablets, and mobile phones, to ensure a consistent and user-friendly experience.

### NAVIGATION

The website's navigation structure aims for a clear and intuitive navigation menu that allows users to easily find the information they are looking for. I considered adding a breadcrumb trail or a search feature to enhance navigation further but there was not enough time for it. An issue with the Navbar is that once it collapses to a burger menu, and one clicks it, the menu disappears.

**MOViMENT GRAFFITTI**

## VISUAL DESIGN

I kept the visual design of the website I originally had planned with only minor tweaks. The colour scheme, typography, and overall aesthetics were adhered to to create an appealing and engaging user interface. The design aligns with the purpose of the website - to inform the user. What I didn't use was the Barreicito font as I found it to be unnecessary.

### CONTENT ORGANISATION

The information is logically structured and presented in a coherent manner. Use proper hierarchy with headings, subheadings, bullet points, and paragraphs to break up text and improve readability.

### CALL-TO-ACTION

Important steps for the user are prominently displayed and encourage interaction, such as the latest news, signing up for a newsletter, or contacting the organisation. This creates clarity and visibility to call-to-action elements on the website.
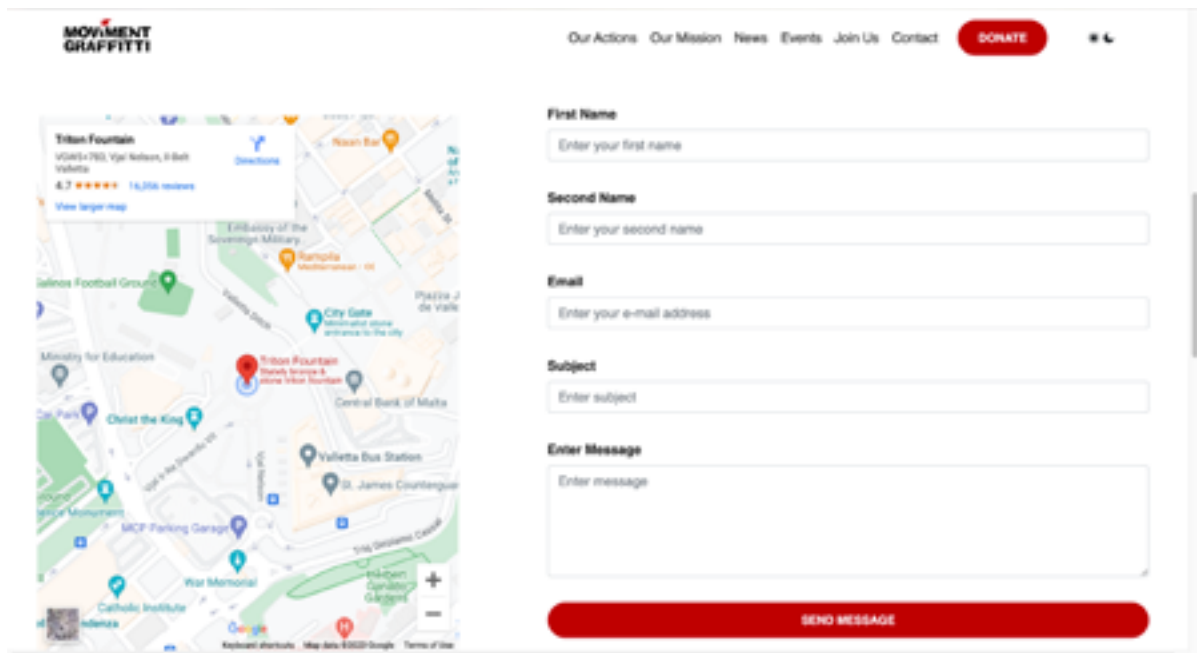
### PERFORMANCE OPTIMISATION

A fast-loading website improves user experience and helps with search engine optimisation. I think that animations slow the page down more than I'd like.

### ACCESSIBILITY

I forgot to add the alternative text for images but I ensured to use proper colour contrast for text and background elements. I also wanted to add a dark-mode but I couldn't figure out how to add it to all the pages.

## FEEDBACK AND CONTACT

I provide a way for users to give their feedback or contact the organisation by including a contact form on the homepage. Though the contact form was not validated. A contact button was also added to the navigation bar which takes the user to another page - that form is validated.

# PART 2

## TESTING

| TEST CASE | DESCRIP-TION | TEST STEP | RESULT | STATUS |
|---|---|---|---|---|
| Responsiveness | The website should adapt to different screen sizes | Open page from different screen-sized devices | All elements on the website maintain their visual aspects | **PASS** |
| Navigation bar - Responsiveness | Menu should collapse on smaller devices with a burger menu | Use a smaller screen and click on the burger menu | The burger menu collapses but when clicking on it the meny appears and disappears | **FAILED** |
| Donation form | Form should give error if a field is filled incorrectly | Enter email without an '@' or a period. | An error appears around the field indicating that the email has been entered incorrectly | **PASS** |
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# VALIDATION

I used Javascript to validate my contact and donation form. This way, the user will have a error which indicates to them that they filled a field incorrectly.

## CONTACT FORM

```javascript
93    // Validate contact page
94
95    function validateForm() {
96      var name = document.getElementById("name").value;
97      var surname = document.getElementById("surname").value;
98      var email = document.getElementById("email").value;
99      var subject = document.getElementById("subject").value;
100     var message = document.getElementById("message").value;
101
102     var errorElement = document.getElementById("error");
103     errorElement.innerHTML = ""; // Clear previous error messages
104
105     if (name === "") {
106       errorElement.innerHTML += "first name is required.<br>";
107     }
108
109     if (surname === "") {
110       errorElement.innerHTML += "Second name is required.<br>";
111     }
112
113     if (email === "") {
114       errorElement.innerHTML += "Email is required.<br>";
115     } else if (!validateEmail(email)) {
116       errorElement.innerHTML += "Invalid email format.<br>";
117     }
118
119     if (subject === "") {
120       errorElement.innerHTML += "Subject is required.<br>";
121     }
122
123     if (message === "") {
124       errorElement.innerHTML += "Message is required.<br>";
125     }
126
127     return errorElement.innerHTML === ""; // Return false to prevent form submission if there are errors
128   }
129
130   function validateEmail(email) {
131     var re = /\S+@\S+\.\S+/;
132     return re.test(email);
133   }
134
```

```javascript
35    // donation form validation
36    document.getElementById("donation-form").addEventListener("submit", function (event) {
37      event.preventDefault();
38
39      // Perform client-side form validation
40      if (!validateForm()) {
41        return;
42      }
43
44      // Simulate payment processing
45      simulatePaymentProcessing();
46    });
47
48    function validateForm() {
49      var amount = document.getElementById("amount").value;
50      var name = document.getElementById("name").value;
51      var email = document.getElementById("email").value;
52      var card = document.getElementById("card").value;
53      var expiry = document.getElementById("expiry").value;
54      var cvv = document.getElementById("cvv").value;
55      var isValid = true;
56    }
57
58      // Validate donation amount
59      if (isNaN(amount) || amount <= 0) {
60        displayErrorMessage("Please enter a valid donation amount");
61        isValid = false;
62      }
63
64      // Validate name
65      if (name.trim() === "") {
66        displayErrorMessage("Please enter your name");
67        isValid = false;
68      }
69
70      // Validate email
71      if (!isValidEmail(email)) {
72        displayErrorMessage("Please enter a valid email address");
73        isValid = false;
74      }
75
76      // Validate credit card details
77      if (!isValidCreditCard(card)) {
78        displayErrorMessage("Please enter a valid credit card number");
79        isValid = false;
80      }
81
82      // Validate expiry date
83      if (!isValidExpiryDate(expiry)) {
84        displayErrorMessage("Please enter a valid expiration date (MM/YY)");
85        isValid = false;
86      }
87
88      // Validate CVV
89      if (!isValidCVV(cvv)) {
90        displayErrorMessage("Please enter a valid CVV");
91      }
92
```

When I validated the page with **https://validator.w3.org/**, I went through all the error but failed to get 5 of them fixed. I couldn't quite understand what was wrong with those particular lines of code.

1. **Error** An `img` element must have an `alt` attribute, except under certain conditions. For details, consult [guidance on providing text alternatives for images](#).

   From line 18, column 9; to line 18, column 44

   ```
   ><img src="./assets/images/logo.png">
   ```

2. **Error** The element `button` must not appear as a descendant of the `a` element.

   From line 124, column 13; to line 124, column 51

   ```
   <button class="btn btn-dark mt-3 mb-4">Learn
   ```

3. **Error** The element `button` must not appear as a descendant of the `a` element.

   From line 432, column 9; to line 432, column 36

   ```
   ><button class="btn btn-imp">Join u
   ```

4. **Error** Element `form` not allowed as child of element `ul` in this context. (Suppressing further errors from this subtree.)

   From line 476, column 11; to line 476, column 40

   ```
   <form class="gy-4 text-white">
   ```

   Contexts in which element `form` may be used:
   Where [flow content](#) is expected.
   Content model for element `ul`:
   Zero or more `li` and [script-supporting](#) elements.

5. **Error** The `aria-describedby` attribute must point to an element in the same document.

   From line 482, column 15; to line 482, column 108

   ```
   <input type="email" class="form-control" id="exampleInputEmail1" aria-describedby="emailHelp">
   ```

# Thank you