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**SCHOOL OF ENGINEERING AND TECHNOLOGY**

**ACADEMIC SESSION AUGUST 2022;**

**WEB1201 WEB FUNDAMENTALS**

**DEADLINE: 25<sup>TH</sup> November 2022 (FRIDAY), 5:00 PM**

**STUDENT NAME:** Thien Tze Yea

**NRIC/PASSPORT NO:** 030201-12-0402

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**INSTRUCTIONS TO CANDIDATES**

- This final assessment will contribute 50% to your final grade.
- This is an individual assignment.

**IMPORTANT**

The University requires students to adhere to submission deadlines for any form of assessment. Penalties are applied in relation to unauthorized late submission of work. Coursework submitted after the deadline will be subjected to the prevailing academic regulations. Please check your respective programme handbook.

**Academic Honesty Acknowledgement**

"I Thien Tze Yea.....(Name) verify that this paper contains entirely our own work. I have not consulted with any outside person or materials other than what was specified (an interviewee, for example) in the assignment or the syllabus requirements. Further, I have not copied or inadvertently copied ideas, sentences, or paragraphs from another student. We realize the penalties (*refer to the student handbook diploma and undergraduate programme*) for any kind of copying or collaboration on any assignment."

Thien Tze Yea..... (Student's Signature / Date)

## **Introduction**

### Types of Website:

The website I've made for this final assessment is an educational website. I have chosen "Air Pollution" as the topic and have inserted different informations to create user's awareness.

### Rationale Behind the Creation and Aims:

Air pollution has always been a serious social issue. It not only endangers nature, but also endangers the health of the whole people. Since the industrial revolution, the air pollution index has been soaring, but it is sad that not everyone pays attention to this matter. They are more concerned with their own interests. In recent decades, the problem of air pollution has become increasingly serious, even our own national air index is often not up to standard, which is very worrying. Many people don't realize that this is a problem that needs to be improved, so they keep repeating actions that cause air pollution, such as turning on the air conditioner for a long time.

Besides, I understand that the reason why many people don't pay attention to this issue is that it is a boring topic compared to entertainment topics which is more interesting. I hope to attract the users through concise language and interesting typography to achieve the purpose of conveying information.

Finally, I hope that the public will be aware of this problem, and understand the source of air pollution, its consequences, and a series of small actions that we can implement to reduce air pollution through the information I published on the website.

### Requirements of Website:

- R1. Labels
- R2. Textboxes
- R3. Dropdown Lists
- R4. Buttons
- R5. Links
- R6. Navigation
- R7. 'Contact Us' Form and Validation using JavaScript
- R8. 'Log in' and 'Sign Up' Function and Validation using JavaScript
- R9. No Issues with Scaling or Layout

## Layout Design

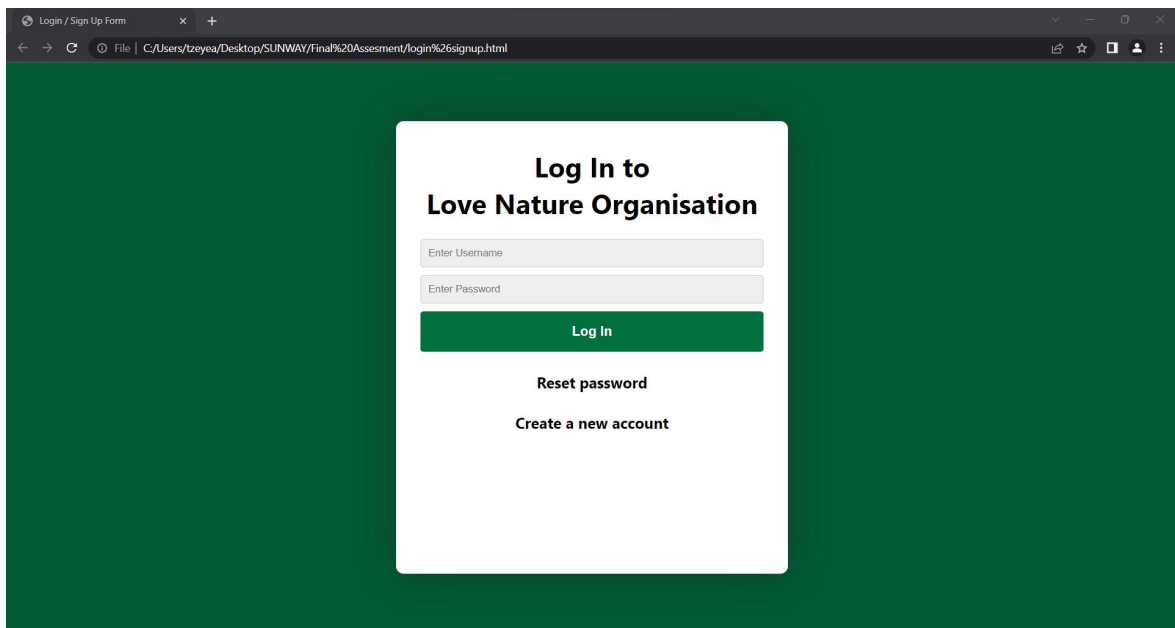


Image 1: Log In Page

Image 1 is a log in page shows when the user visit our website. They may log in directly or press the button below to create a new account. The “Reset Password” button is a dummy button.

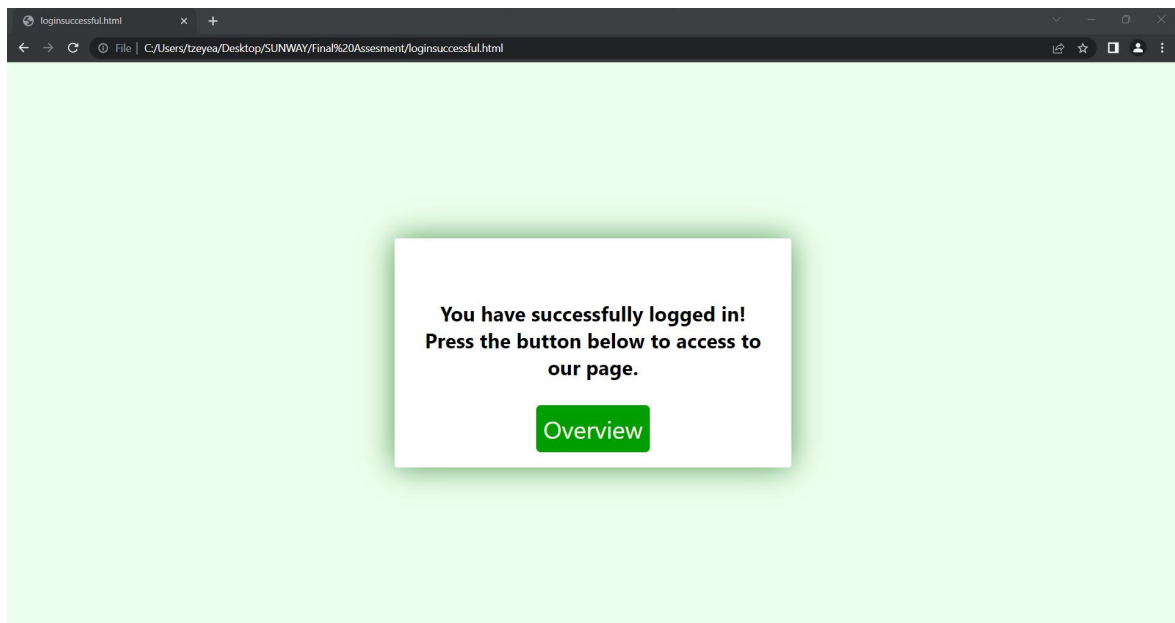
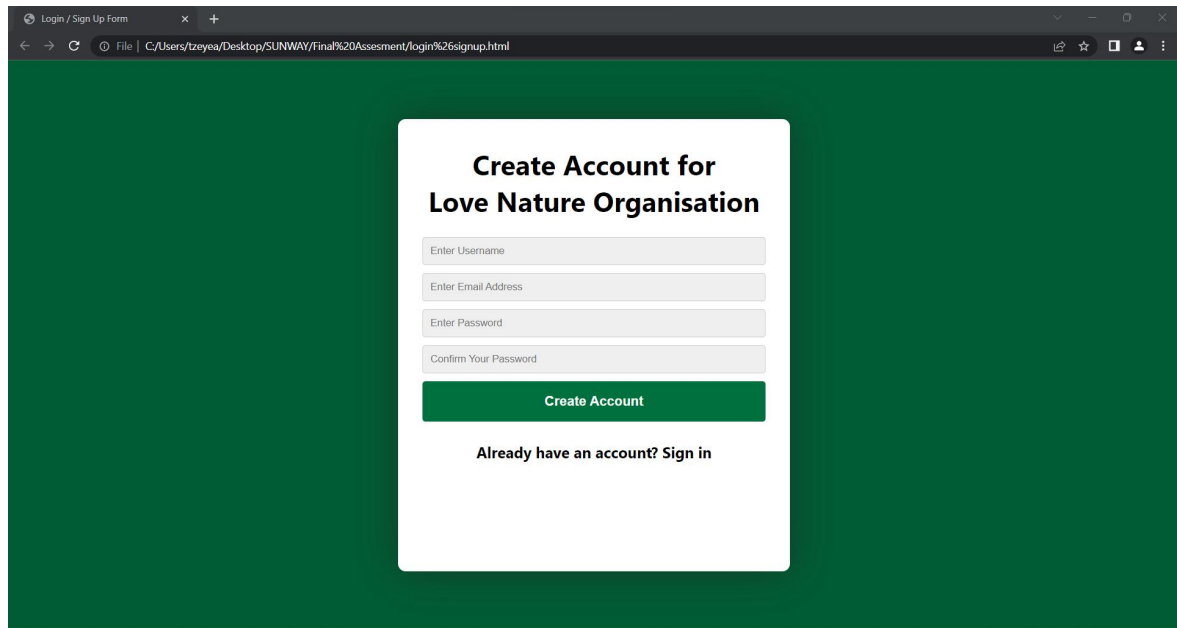


Image 2: Log In Successfully Page

Image 2 is a page showing that user has successfully logged in to our website. The user can click on the “Overview” button to access to our page.



Login / Sign Up Form

File | C:/Users/tzeyea/Desktop/SUNWAY/Final%20Assesment/login%26signup.html

### Create Account for Love Nature Organisation

Enter Username

Enter Email Address

Enter Password

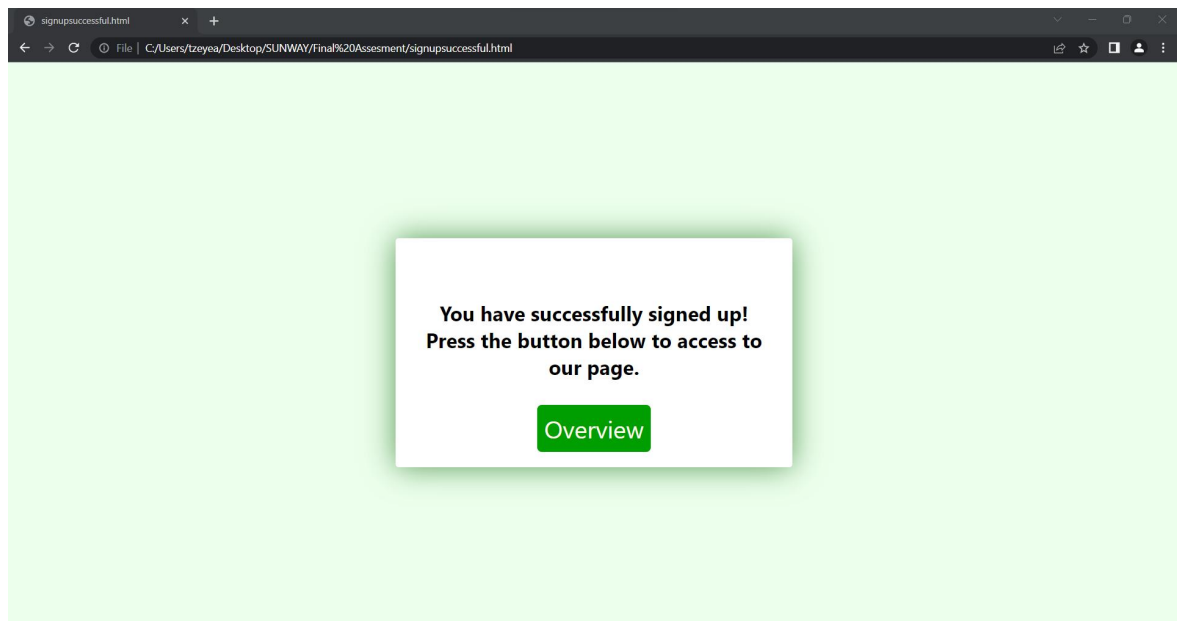
Confirm Your Password

Create Account

Already have an account? Sign in

Image 3: Create Account Page

Image 3 is a sign up page or known as create account page. The user needs to click on the “Create a new account button” appears on the log in page before to access to this page. If the user has an account, they may click the “Already have an account? Sign in” link below to access to log in page again.



signupsuccessful.html

File | C:/Users/tzeyea/Desktop/SUNWAY/Final%20Assesment/signupsuccessful.html

You have successfully signed up!  
Press the button below to access to our page.

Overview

Image 4: Signed Up Successfully Page

Image 2 is a page showing that user has successfully logged in to our website. The user can click on the “Overview” button to access to our page.

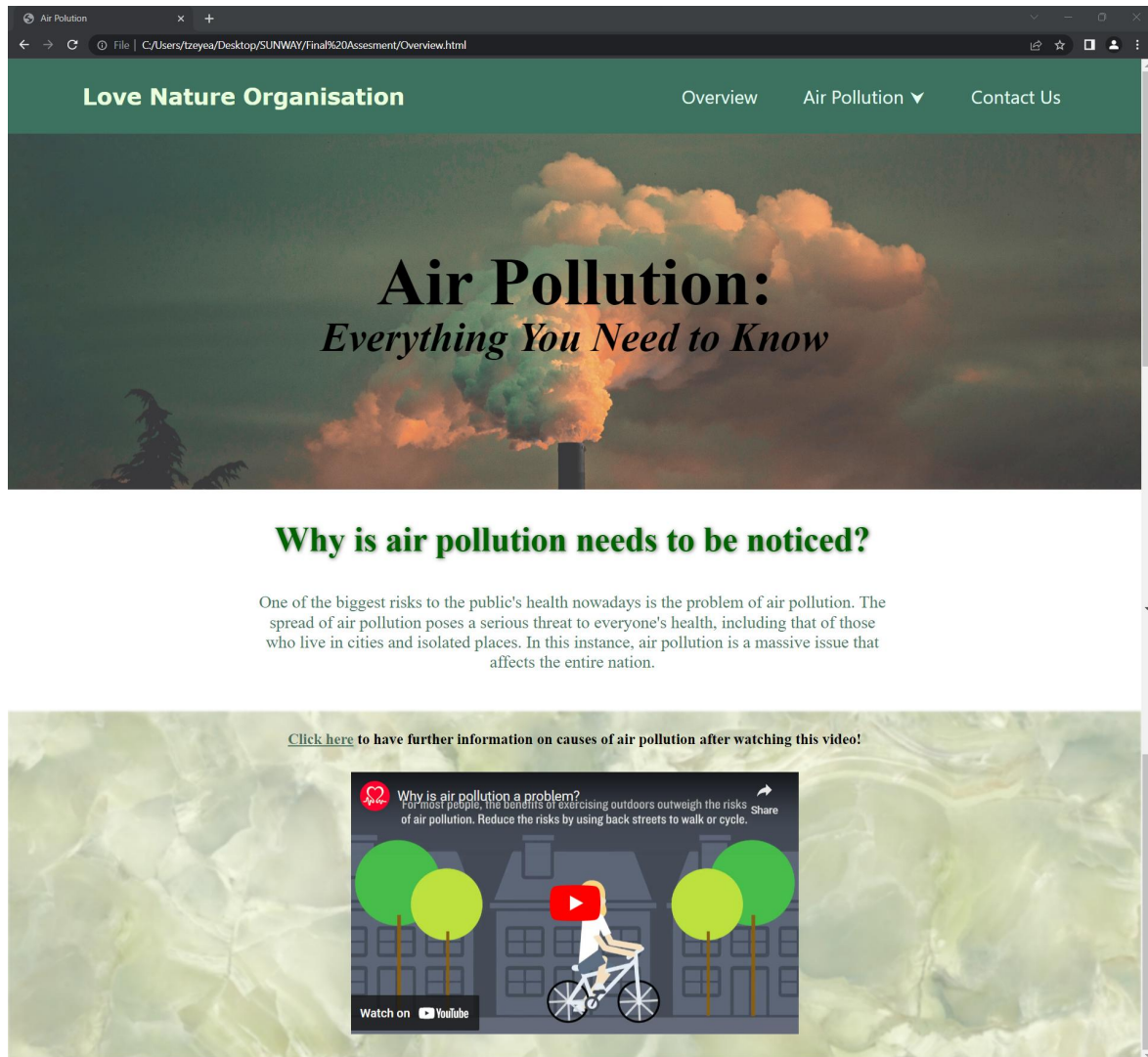


Image 5: Overview Page

Image 5 is a page about overview on air pollution. I have used a green theme and divided the title, brief explanation of why is air pollution needs to be noticed and a video with horizontal sections. The difference in color allows users to understand the message that wished to delivery to them at a glance.



Causes & Effects of Air Pollution

File | C:/Users/tzoyea/Desktop/SUNWAY/Final%20Assesment/causesandeffects.html

Love Nature Organisation

Overview

Air Pollution

Contact Us

Causes and Effects of Air Pollution

Causes of Air Pollution

“Most air pollution comes from energy use and production,” says John Walke, director of the Clean Air Project, part of the Climate and Clean Energy program at NRDC. “Burning fossil fuels releases gases and chemicals into the air.” And in an especially destructive feedback loop, air pollution not only contributes to climate change but is also exacerbated by it. “Air pollution in the form of carbon dioxide and methane raises the earth’s temperature,” Walke says. “Another type of air pollution, smog, is then worsened by that increased heat, forming when the weather is warmer and there’s more ultraviolet radiation.” Climate change also increases the production of allergenic air pollutants, including mold (thanks to damp conditions caused by extreme weather and increased flooding) and pollen (due to a longer pollen season).

Some of the air pollutants released and caused air pollution are: **Carbon Dioxide, Methane, Sulfur Dioxide, Nitrogen Oxide, Ozone** etc. Table 1, Table 2 and Table 3 show the cumulative global carbon dioxide emissions, global methane emissions and global sulfur dioxide emissions.




Table 1: Cumulative Carbon Dioxide Emissions from 1751 to 2017

Country	Emissions (tonnes)
China	200 billions
USA	399 billions
India	48 billions
Europe	353 billions

Table 2: Global Methane Emissions from 2000 to 2020

Year	Emissions (mega tonnes)
2000	99.8
2005	116.2
2010	126.3
2015	133.2
2020	130.7

Table 3: Global Sulfur Dioxide Emissions from 1970 to 2010

Year	Emissions (mega tonnes)
1980	151.51
1990	141.98
2000	104.56
2010	97

Effects of Air Pollution and its Source

Smog and Soot

These are the two most common forms of air pollution. Smog (also known as ground-level ozone) develops when emissions from burning fossil fuels react with sunlight. Soot (also known as particulate matter) is made up of microscopic particles of chemicals, dirt, smoke, dust, or allergies that are transported in the air as gas or solids. Smog and soot have similar origins. Both originate from automobiles and trucks, factories, power plants, incinerators, engines, and anything else that burns fossil fuels such as coal, gas, or natural gas. Smog may irritate the eyes and throat as well as harm the lungs, particularly those of youngsters, the elderly, and those who work or exercise outside. It's considerably worse for those who suffer from asthma.

Greenhouse Gases

Greenhouse gas emissions have far-reaching environmental and health consequences. They contribute to respiratory problems due to smog and air pollution, and they affect climate change by trapping heat. Other implications of climate change produced by greenhouse gases include extreme weather, food supply shortages, and increasing wildfires. The weather patterns we've come to anticipate will alter; some species will go extinct, while others may relocate or grow.

Nitrogen Dioxide

Nitrogen dioxide levels that are too high can harm the human respiratory tract and increase a person's susceptibility to, and severity of, respiratory infections and asthma. Chronic lung disease can be caused by long-term exposure to high amounts of nitrogen dioxide. It may also have an effect on the senses, such as impairing a person's capacity to detect odours. High quantities of nitrogen dioxide are also hazardous to vegetation, causing damage to the leaves, slowing growth, and diminishing agricultural yields. Nitrogen dioxide has the ability to fade and discolour furniture and textiles, as well as limit visibility and react with surfaces.




Image 6: Causes and Effects Page

Image 6 shows the causes and effects page. I have used two horizontal sections in green colour to separate the information. This will ease the user to understand the types of information which is delivered in this page.

Ways to Overcome Air Pollution

Love Nature Organisation

Overview

Air Pollution

Contact Us

# Ways to Overcome Air Pollution

In order to reduce air pollution, everyone needs to be responsible. Although we don't have much ability to carry out large-scale activities, we can start from the small things in life. Assuming that everyone can always pay attention to reducing pollution in daily life, then this problem will definitely be alleviated. Here's what we can do:

1 - Walk, bike, carpool or use public transportation



By doing these, we are actually reducing the number of cars on the road that release gases as air pollutants.

2 - Recycle and use recycled products



We should reduce the use of disposable products. This is because the use of disposable products will cause manufacturers to increase production, which in turn creates more sources of air pollution during the production process. This can be avoided by using recycled product in our daily life.

3 - Use natural products and non-toxic cleaners



Most air fresheners, cleaners, paints and cleaners on the market contain toxic substances such as volatile organic compounds (VOCs). These substances are easy to volatilize into the indoor air, which will not only cause air pollution, but also endanger health.

## Other ways to overcome air pollution?

- # Use fans instead of air conditioner
- # Avoid usage of crackers
- # Avoid usage of products with chemicals
- # Use renewable energy such as solar
- # Use natural gas instead of charcoal
- # Choose products with minimal packaging
- # Use rechargeable batteries

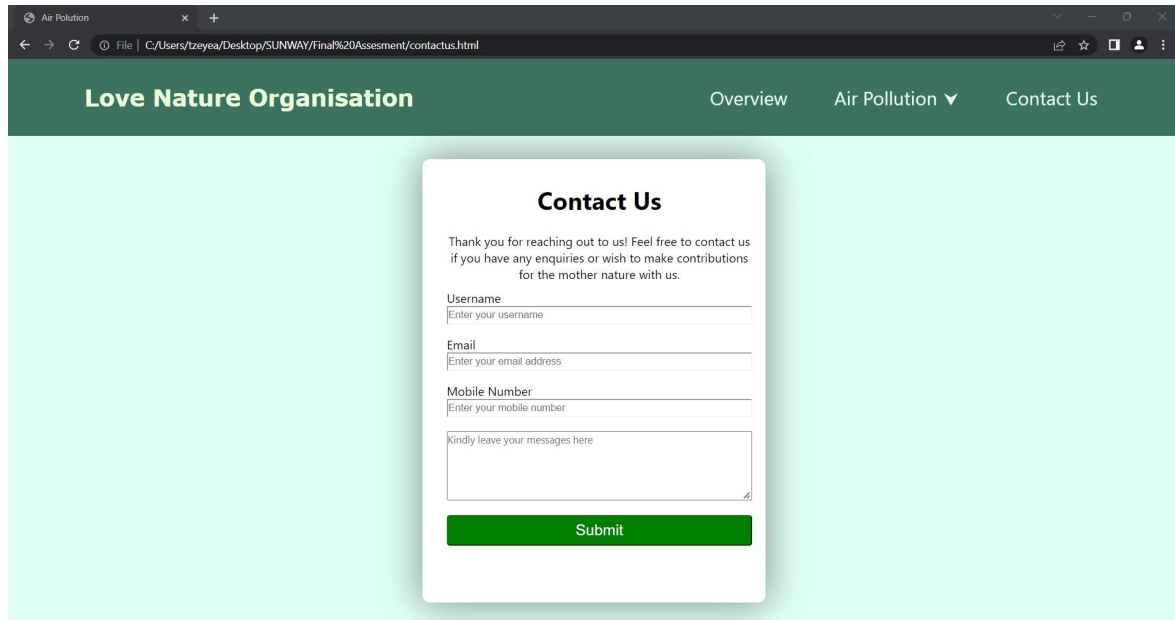
## Final Words



To create a better world, we desperately need to pay attention to the problem of air pollution. This is not only related to the health of living creature on the Earth, but also the next generation. The best solution is to start to make changes from now, and also creates awareness among all people.

Image 7: Ways to Overcome Page

Image 7 is a page talking about the ways to overcome air pollution. I have suggested 3 ways with detailed explanation and also other ways with no explanation. Finals words are given as well in this page. All the elements are centered, user may scroll down to read all the information clearly.



The screenshot shows a web browser window with the title 'Air Pollution'. The address bar displays the file path: 'C:/Users/tzeyea/Desktop/SUNWAY/Final%20Assesment/contactus.html'. The website has a dark green header with the text 'Love Nature Organisation' on the left and navigation links 'Overview', 'Air Pollution', and 'Contact Us' on the right. The main content area has a light green background. In the center is a white 'Contact Us' form. The form includes a title 'Contact Us', a thank-you message, and input fields for 'Username', 'Email', and 'Mobile Number'. Below these is a text area for messages and a green 'Submit' button.

**Love Nature Organisation** Overview Air Pollution Contact Us

### Contact Us

Thank you for reaching out to us! Feel free to contact us if you have any enquiries or wish to make contributions for the mother nature with us.

**Username**  
Enter your username

**Email**  
Enter your email address

**Mobile Number**  
Enter your mobile number

Kindly leave your messages here

**Submit**

Image 8: Contact Us Page

Image 8 shows a page with a “Contact Us” form. The form is centered as well to look neatly.



## Implementation and Results

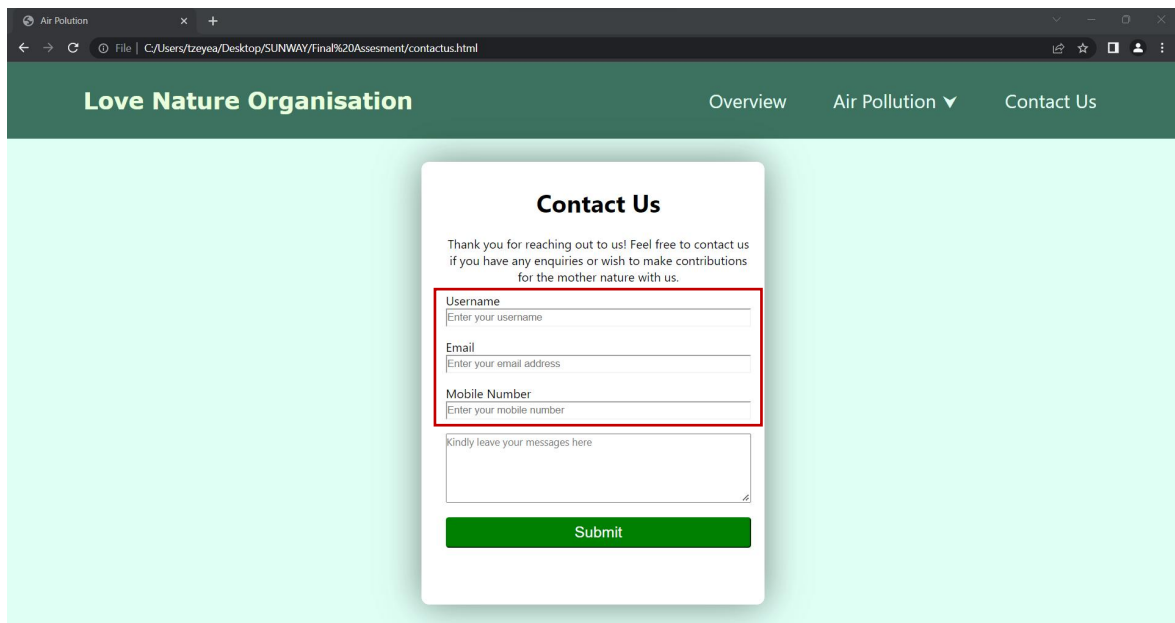
### Label:

```
<div class="categorize_contactus_input">
  <label for="Username">Username</label>
  <input id="username" name="username" type="text" placeholder="Enter your username">
  <div class="error"></div>
</div>

<div class="categorize_contactus_input">
  <label for="email">Email</label>
  <input id="email" name="email" type="text" placeholder="Enter your email address">
  <div class="error"></div>
</div>

<div class="categorize_contactus_input">
  <label for="mobilenumber">Mobile Number</label>
  <input id="mobilenum" name="mobilenum" type="text" placeholder="Enter your mobile number">
  <div class="error"></div>
</div>
```

Image 9: Labels (code)



The screenshot shows a web browser window with the URL `C:/Users/tzeyea/Desktop/SUNWAY/Final%20Assesment/contactus.html`. The page has a dark green header with the text "Love Nature Organisation" and navigation links "Overview", "Air Pollution", and "Contact Us". The main content area is light green and features a white "Contact Us" form. The form includes a title, a thank-you message, and three input fields: "Username", "Email", and "Mobile Number". These three input fields are enclosed in a red rectangular box. Below the input fields is a text area for messages and a green "Submit" button.

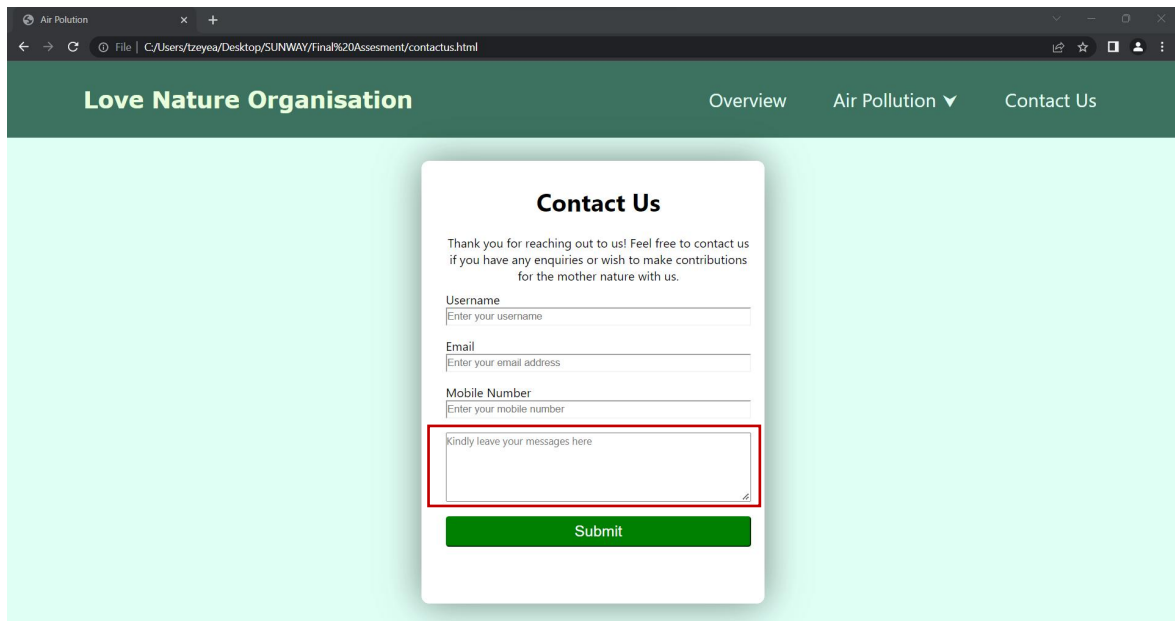
Image 10: Labels (outcome)

I have used `<label>` tag to specify a label for `<input>` element of the “Contact Us” form, such as “Username”, “email” and “mobilenumber” which can be observed from Image 9 and Image 10.

## Text box:

```
<textarea id="messages" rows="5" placeholder="Kindly leave your messages here" required></textarea>
```

Image 11: Textarea (code)



Air Pollution x +  
File | C:/Users/tzeyea/Desktop/SUNWAY/Final%20Assesment/contactus.html

**Love Nature Organisation** Overview Air Pollution ▼ Contact Us

**Contact Us**

Thank you for reaching out to us! Feel free to contact us if you have any enquiries or wish to make contributions for the mother nature with us.

**Username**  
Enter your username

**Email**  
Enter your email address

**Mobile Number**  
Enter your mobile number

Kindly leave your messages here

**Submit**

Image 12: Textarea (outcome)

I have used <textarea> tag in “Contact Us” form to collect user’s messages.

## Dropdown List:

```
<nav>
  <label class="logo">Love Nature Organisation</label>
  <ul>
    <li><a class="active" href="Overview.html">Overview</a></li>
    <li><a href="#">Air Pollution ▼</a>
      <ul class="dropdown">
        <li><a href="causesandeffects.html">Causes and Effects</a></li>
        <li><a href="waystoovercome.html">Ways to Overcome</a></li>
      </ul>
    </li>
    <li><a href="contactus.html">Contact Us</a></li>
  </ul>
</nav>
```

Image 13: Dropdown List (code)

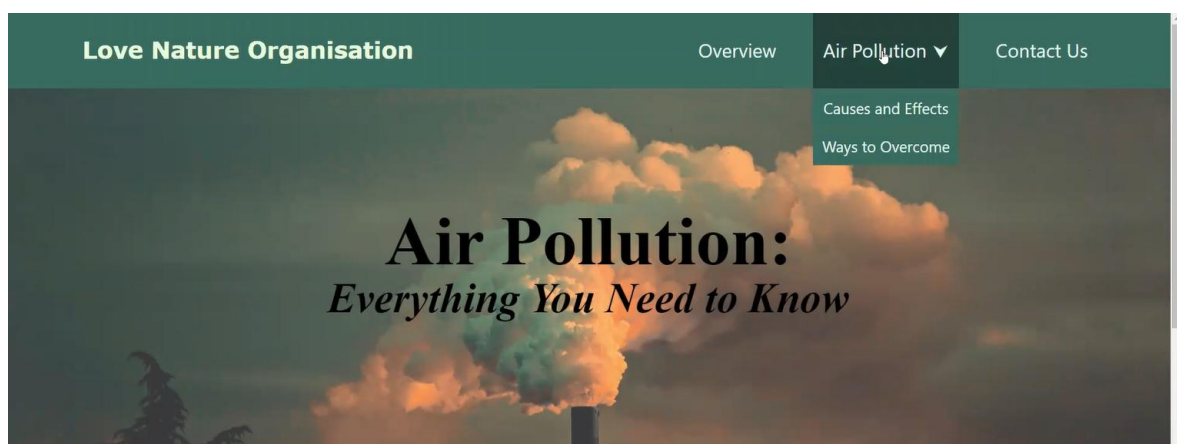


Image 14: Dropdown List (Outcome)

I have created a new class named “dropdown” to create the dropdown menu and add the dropdown links inside it.

## Button:

```
<button class="form_button"><a href="loginsuccessful.html" type="submit">Log In</button>
```

Image 15: Button (Code)

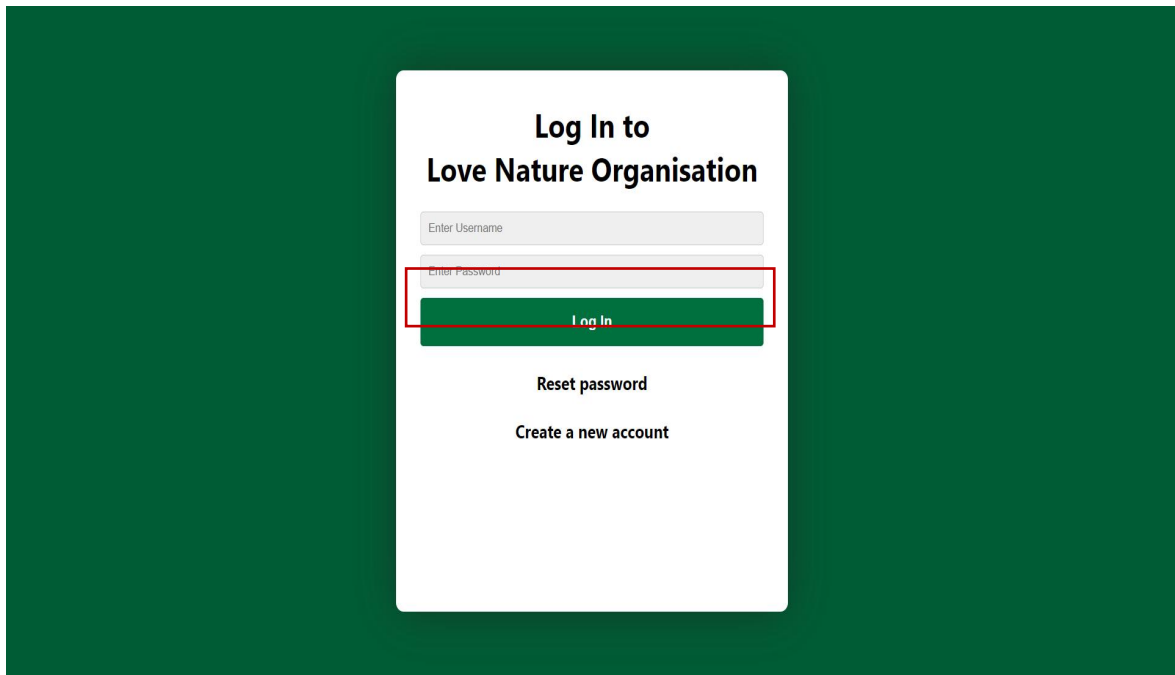


Image 16: Button (Outcome)

The `<button>` tag is used in both “Log In” page and “Sign Up” page. Image 15 and Image 16 shows the example in “Log In” page. Once the user click on the side of the button, messages will be displayed. For example, if the user has entered invalid details and press the “Log In” button, the message of “Invalid username/password combination” will be displayed. (Since the “Log In” page and “Sign Up” page is hard-coded, user should click on the side of the button to have messages displayed. Clicking on the middle of the word will jump to “Log In Successful” page.)

## Links:

```
<div class="whyisairpollutionaproblem">
  
  <div class="text3"><a href="causesandeffects.html"><b>Click here</b></a><b> to have further information on causes of air pollution after watching this video!</b></div>
  <div class="pollutionvideo"><iframe width="600vw" height="350vh" src="https://www.youtube.com/embed/vYSAPwQwMTk" title="Youtube video player" frameborder="0" allow="";
</div>
```

Image 17: Links (Code)



Image 18: Links (Outcome)

The HTML `<a>` tag defines a hyperlink. I have used the `<a>` tag to create hyperlinks many times in my website. This is an example of it. Once user click on the link as shown in Image 18, it will send the user to the “Causes and Effects” page.



## Navigations:

```
<nav>
  <label class="logo">Love Nature Organisation</label>
  <ul>
    <li><a class="active" href="Overview.html">Overview</a></li>
    <li><a href="#">Air Pollution ▼</a>
      <ul class="dropdown">
        <li><a href="causesandeffects.html">Causes and Effects</a></li>
        <li><a href="waystoovercome.html">Ways to Overcome</a></li>
      </ul>
    </li>
    <li><a href="contactus.html">Contact Us</a></li>
  </ul>
</nav>
```

Image 19: Navigation (Code)



Image 20: Navigation Bar (Outcome)

I have used `<nav>` tag to create a navigation bar on my website. User may access to all the links from the navigation bar.

## Tables:

```
<table class="table3">
  <caption>Table 3: Global Sulfur Dioxide Emissions from 1970 to 2010</caption>
  <thead>
    <tr>
      <th>Year</th>
      <th>Emissions (mega tonnes)</th>
    </tr>
  </thead>

  <tbody>
    <tr>
      <td>1980</td>
      <td>151.51</td>
    </tr>

    <tr>
      <td>1990</td>
      <td>141.98</td>
    </tr>

    <tr>
      <td>2000</td>
      <td>104.56</td>
    </tr>

    <tr>
      <td>2010</td>
      <td>97</td>
    </tr>
  </tbody>
</table>
```

Image 21: Table (Code)

*Table 3: Global Sulfur Dioxide Emissions from 1970 to 2010*

Year	Emissions (mega tonnes)
1980	151.51
1990	141.98
2000	104.56
2010	97

Image 22: Table (Outcome)

I have used <table> tag to create tables. The reasons I created table is that I wished to present the data of air pollutants index. With tables, all data are represented clearly and neatly. Presenting data in a table makes the user to better understand the data instead of writing a paragraph.

## Video:

```
<div class="whyisairpollutionaproblem">
  
  <div class="text3"><a href="causesandeffects.html"><b>Click here</b></a><b> to have further information on causes of air pollution after watching this video!</b></div>
  <div class="pollutionvideo">
    <iframe width="600vw" height="350vh" src="https://www.youtube.com/embed/vYSAPwQwMTk" title="YouTube video player" frameborder="0" allowfullscreen></iframe>
  </div>
</div>
```

Image 23: Inserting YouTube Video (Code)

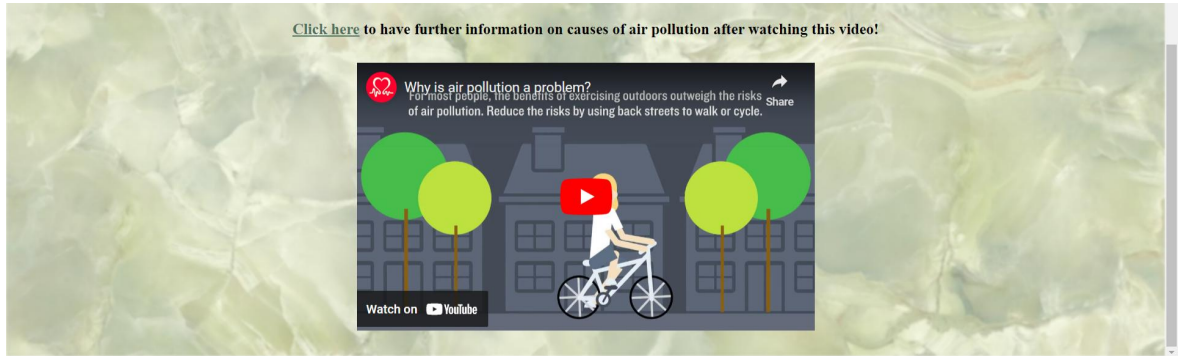


Image 24: Inserting YouTube Video (Outcome)

I have inserted a YouTube video that is related to my content as a multimedia object. This may increase the level of interesting and interactive as well for my website. This also allows user to better understand the messages delivered by different way but not only texts and tables.

## Log In form & Sign Up form with Validations using JavaScript (Failed Situation):

Test Case ID	TC-01
Objective	Test if website will display error messages when user entered incorrect input in both Log In and Sign Up form
Requirement ID	R-8
Condition	User able to access to both Log In and Sign Up form.
Test Steps	1. Enter incorrect input.
Expected Results	All relevant error messages will be displayed based on format set in the JavaScript
Actual Results	Matches the expected results

```
function setError(inputElement, message) {
    inputElement.classList.add("form_input_error");
    inputElement.parentElement.querySelector(".form_input_errormessage").textContent = message;}

function clearInputError(inputElement) {
    inputElement.classList.remove("form_input_error");
    inputElement.parentElement.querySelector(".form_input_errormessage").textContent = "";}

function setFormMessage(formElement, type, message) {
    const messageElement = formElement.querySelector(".display_message");

    messageElement.textContent = message;
    messageElement.classList.remove("display_message_success", "display_message_error");
    messageElement.classList.add(`display_message--${type}`);

    document.addEventListener("DOMContentLoaded", () => {
        const loginForm = document.querySelector("#login");
        const signupForm = document.querySelector("#signup");

        document.querySelector("#linksignup").addEventListener("click", e => {
            e.preventDefault();
            loginForm.classList.add("signupform_hidden");
            signupForm.classList.remove("signupform_hidden");});

        document.querySelector("#linklogin").addEventListener("click", e => {
            e.preventDefault();
            loginForm.classList.remove("signupform_hidden");
            signupForm.classList.add("signupform_hidden");});

        loginForm.addEventListener("submit", e => {
            e.preventDefault();
            setFormMessage(loginForm, "error", "Invalid username/password combination.");});

        signupForm.addEventListener("submit", e => {
            e.preventDefault();
            setFormMessage(signupForm, "error", "Please enter all required informations.");});

        document.querySelectorAll(".form_input").forEach(inputElement => {
            inputElement.addEventListener("blur", e => {

                if (e.target.id === "login_username" && e.target.value.length > 0 && e.target.value.length < 8) {
                    setError(inputElement, "Please enter a valid username. A username contains at least 8 characters.");}

                if (e.target.id === "signup_username" && e.target.value.length > 0 && e.target.value.length < 8) {
                    setError(inputElement, "Username must be at least 8 characters.");}

                if (e.target.id === "signup_email" && (!e.target.value.includes("@") || !e.target.value.includes(".com"))) {
                    setError(inputElement, "Invalid email address. Email address should contains '@' and ends with '.com'.");}

                if (e.target.id === "signup_password" && e.target.value.length > 0 && e.target.value.length < 8) {
                    setError(inputElement, "Password must contains 8 characters.");}

                if (e.target.id === "signup_confirmpassword" && e.target.value !== document.getElementById("signup_password").value) {
                    setError(inputElement, "Confirm password should be the same as password.");});

            inputElement.addEventListener("input", e => {
                clearInputError(inputElement);});
        });
    });
};
```

Image 25: Log In form & Sign Up form Validation (Code)

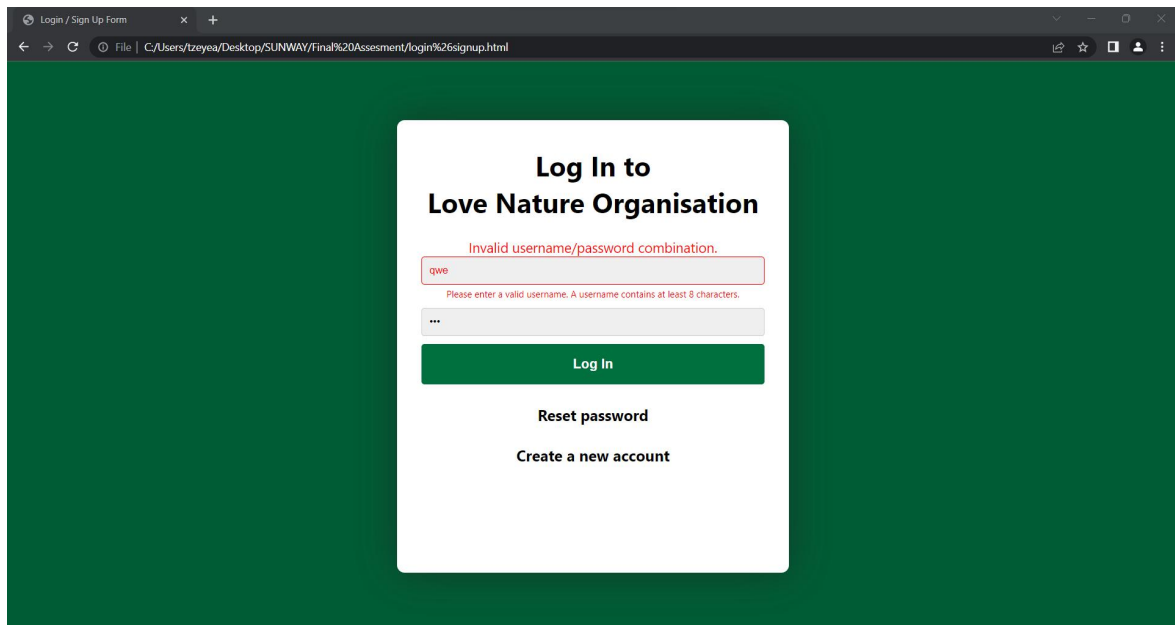


Image 26: Failed to Sign In (Outcome)

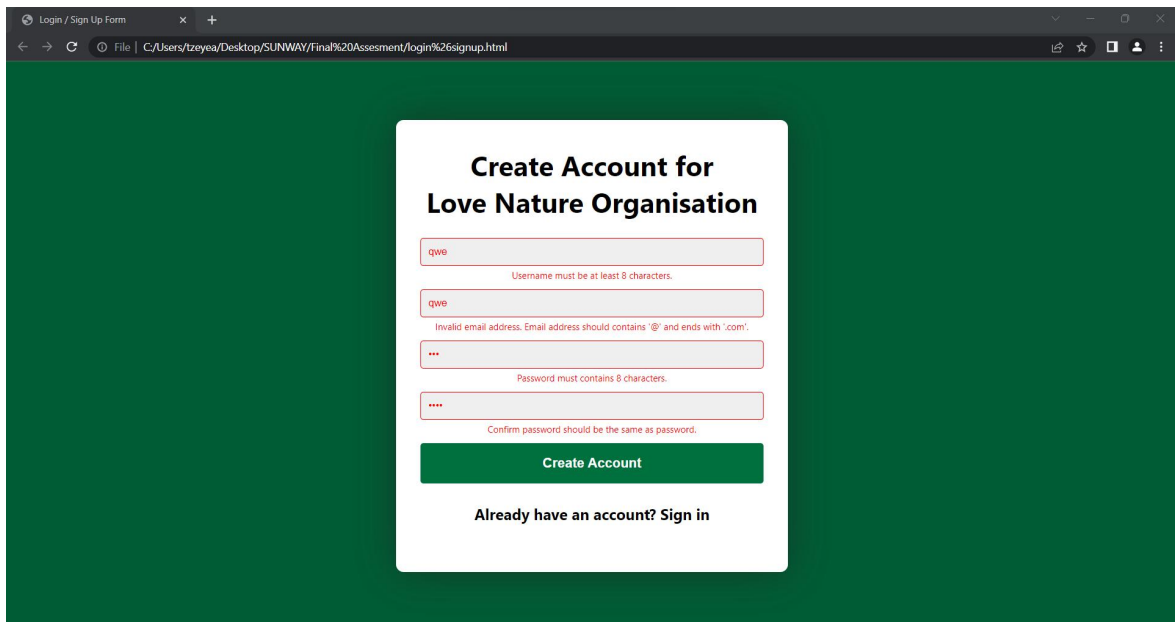


Image 27: Failed to Sign Up (Outcome)

I have used JavaScript to validate the forms. Error message will be given to user if they entered the input in incorrect format that I have set in JavaScript. Since both of the forms are hard-coded, the error message will only displayed when the user click the side of the button of “Log In” or “Create Account”. If they click the words in the button, they will jump to another page.



## Contact Us form with Validations using JavaScript (Failed Situation):

Test Case ID	TC-02
Objective	Test if website will display error messages when user entered incorrect input in both Log In and Sign Up form
Requirement ID	R-7
Condition	User able to access to Contact Us form.
Test Steps	1. Enter incorrect input.
Expected Results	All relevant error messages will be displayed based on format set in the JavaScript.
Actual Results	Matches the expected results
Test Results	Pass

```
const form = document.getElementById('form');
const username = document.getElementById('username');
const email = document.getElementById('email');
const mobilenum = document.getElementById('mobilenum')

form.addEventListener('submit', e => {
  e.preventDefault();
  validate_form();
});

const setError = (element, message) => {
  const categorize_contactus_input = element.parentElement;
  const errorDisplay = categorize_contactus_input.querySelector('.error');

  errorDisplay.innerText = message;
  categorize_contactus_input.classList.add('error');
  categorize_contactus_input.classList.remove('success')
}

const setSuccess = element => {
  const categorize_contactus_input = element.parentElement;
  const errorDisplay = categorize_contactus_input.querySelector('.error');

  errorDisplay.innerText = '';
  categorize_contactus_input.classList.add('success');
  categorize_contactus_input.classList.remove('error');
};

const isValidEmail = email => {
  const re = /^[^\s@(){}[\]\\\\.,;:\s@"]+@\.[^\s@(){}[\]\\\\.,;:\s@"]+\.[^\s@(){}[\]\\\\.,;:\s@"]+\.[^\s@(){}[\]\\\\.,;:\s@"]+$/;
  return re.test(String(email).toLowerCase());
}

const isValidmobilenum = mobilenum => {
  const re = /^(?(\d{3})\d{2}[- ]?(?(\d{4})$|
  return re.test (String(mobilenum));
}

const validateInputs = () => {
  const usernameValue = username.value.trim();
  const emailValue = email.value.trim();
  const mobilenumValue = mobilenum.value.trim();
  //added valids
  let valid = false
  let valid1 = false
  let valid2 = false
  let valid3 = false
  if(usernameValue === '') {
    setError(username, 'Username is required');
  } else {
    setSuccess(username);
    valid1 = true
  }

  if(emailValue === '') {
    setError(email, 'Email is required');
  } else if (!isValidEmail(emailValue)) {
    setError(email, 'Please enter a valid email address');
  } else {
    setSuccess(email);
    valid2 = true
  }

  if(mobilenumValue === ''){
    setError(mobilenum, 'Mobile Number is required.');
```

Image 28: Contact Us form Validations (Code)

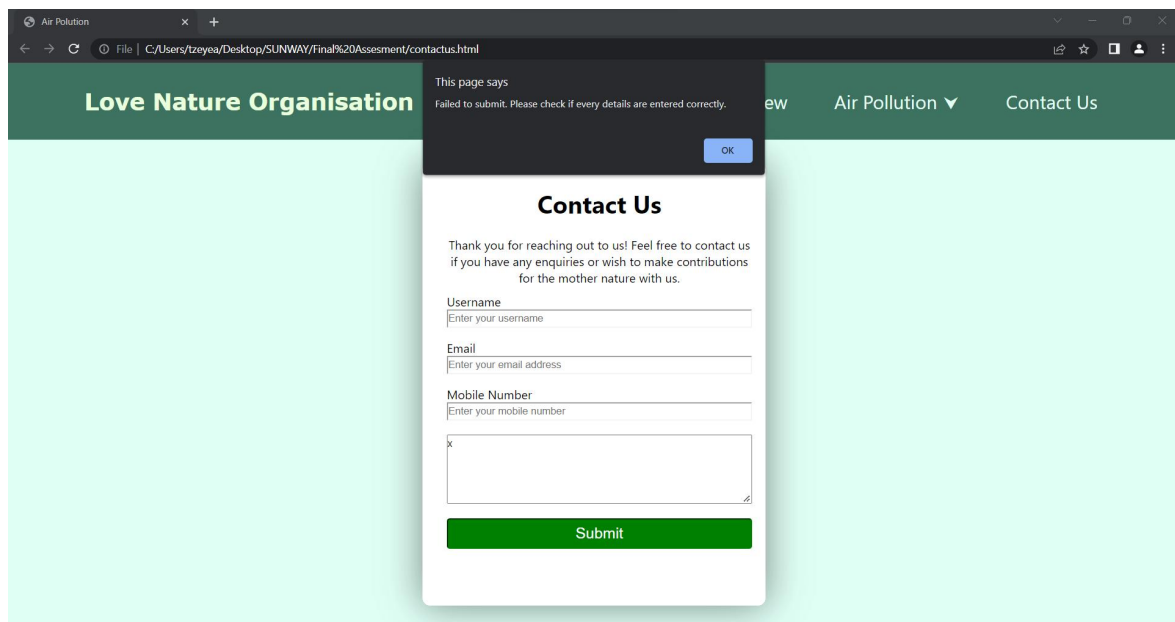


Image 29: User Left Out Some Inputs and Try to Submit (Outcome)

If the user try to submit without completing the form, an alert message will be displayed which asked the user to check whether all details are entered correctly.

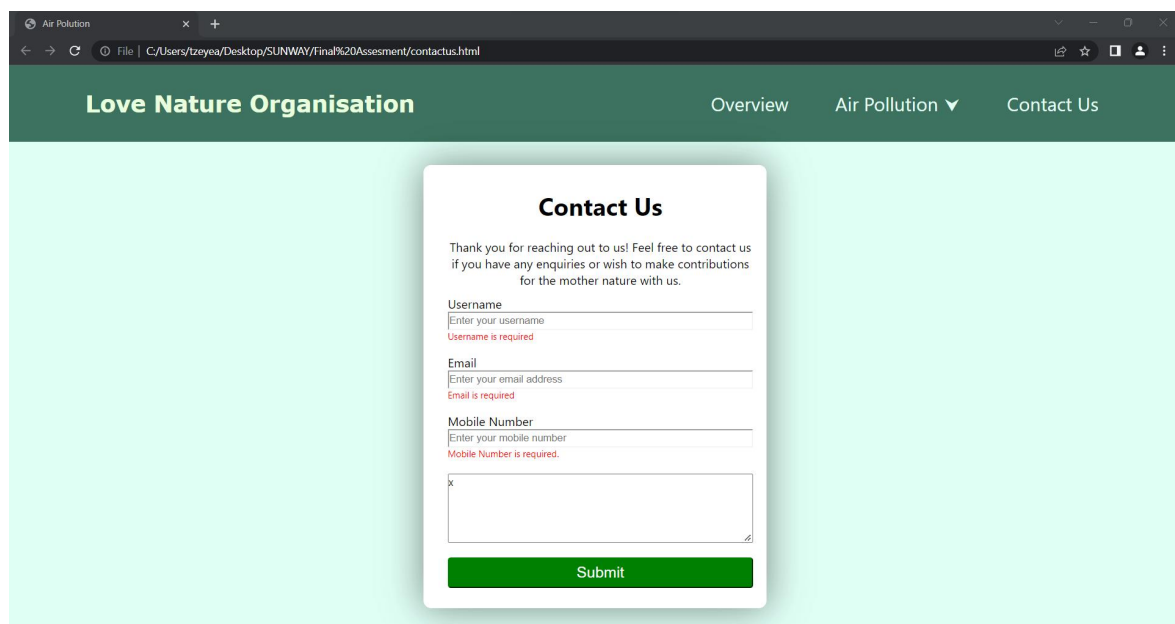


Image 30: Messages Displayed after User click “OK” for the alert message in Image 29 (Outcome)

After the user clicked on the “OK” button in the alert message, reminding messages will also be displayed in the form to tell the user which question is required to enter input.

Air Pollution

File | C:/Users/tzoyea/Desktop/SUNWAY/Final%20Assesment/contactus.html

Love Nature Organisation

Overview Air Pollution Contact Us

### Contact Us

Thank you for reaching out to us! Feel free to contact us if you have any enquiries or wish to make contributions for the mother nature with us.

Username  
qwd

Email  
qwd  
Please enter a valid email address

Mobile Number  
123  
Please enter a valid mobile number.

x

Submit

Image 31: User has Entered Invalid Details (Outcome)

If the user enters invalid email address or invalid mobile number and clicks submit, an alert message in Image 29 will be displayed as well. After the user has clicked the “OK” button, the website will tell the user to enter valid details.

### Contact Us form with Validations using JavaScript (Success Situation):

Test Case ID	TC-02-02
Objective	Test if website will display error messages when user entered incorrect input in both Log In and Sign Up form
Requirement ID	R-7
Condition	User able to access to Contact Us form.
Test Steps	1. Enter correct input.
Expected Results	Alert message which tells the user that he/she submitted successfully will be displayed.
Actual Results	Matches the expected results
Test Results	Pass

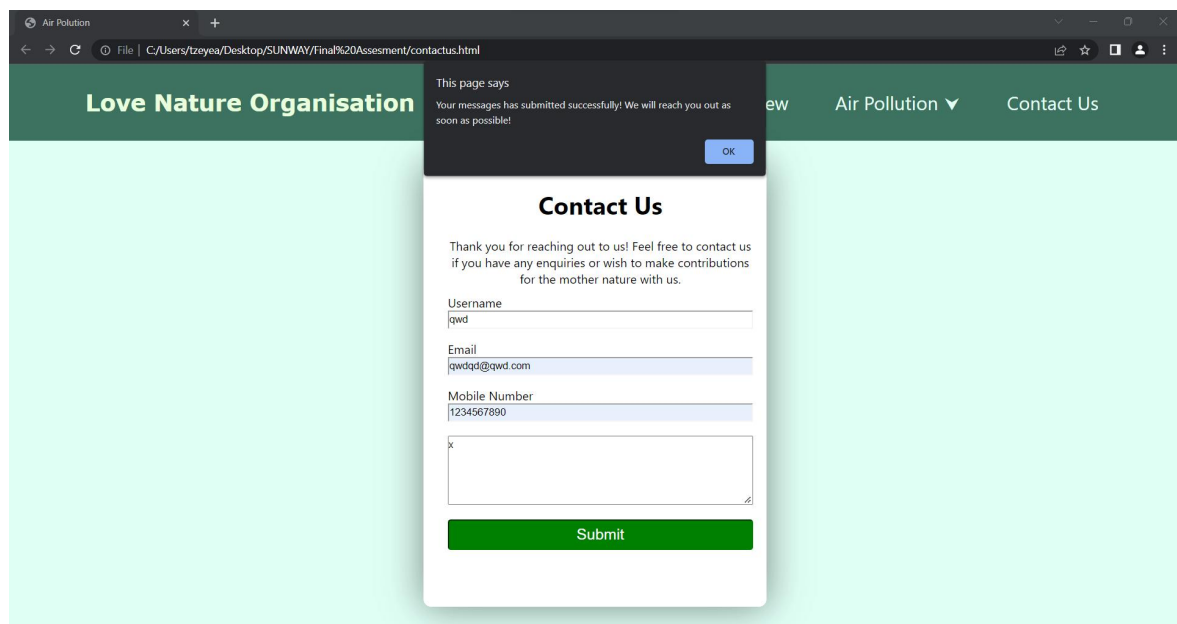


Image 32: User has Entered All Inputs in Correct Format (Outcome)

If the user enters all inputs in correct format and click on the “Submit” button, an alert message saying submitted successfully will be displayed.

## References

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