

## Task 2:

Based on analysis carried out in task 1, and the proposal of a solution for the client, Health Advice Group have now started development of the solution (a website). This document outlines the prototype of the designed solution which contains functionality, such as a functioning login and register page as well as live weather forecast as requested by the client in the requirements. My designed solution will refer to the functional and non-functional requirements analysis which were carried out in Task 1, and testing of this solution will include some of the user acceptance criteria in the proposal to ensure highest user satisfaction is achieved. In this task I will include a log of all the different versions of the site which will show what changes are being made across version, as well as an assets log and detailed test log of the solution.

My website has consideration of accessibility, security and other standard practices as well as ensuring code maintainability, and following all legal and regulatory guidelines and standards.

# Development Log

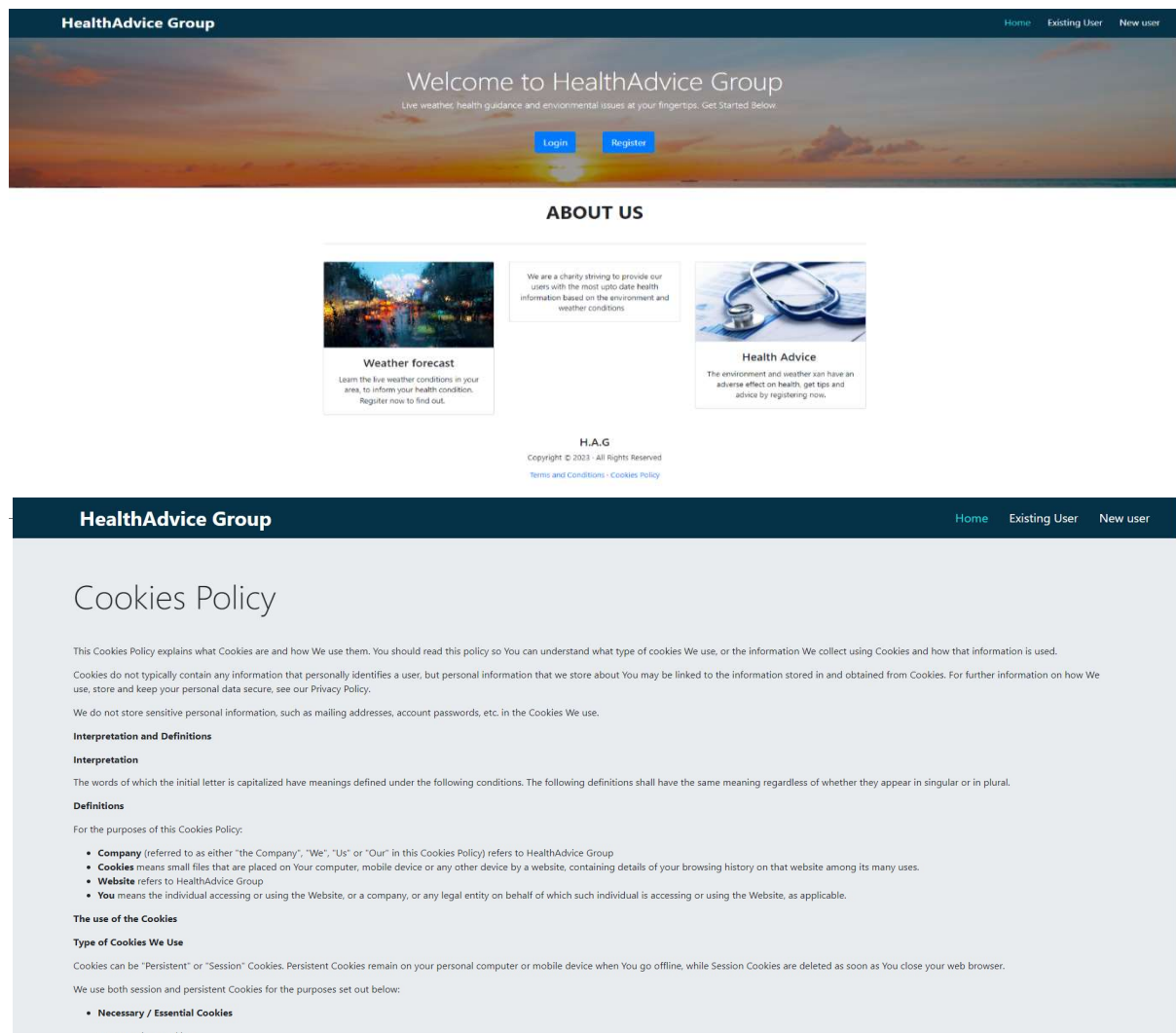
## Latest Version – V1.3

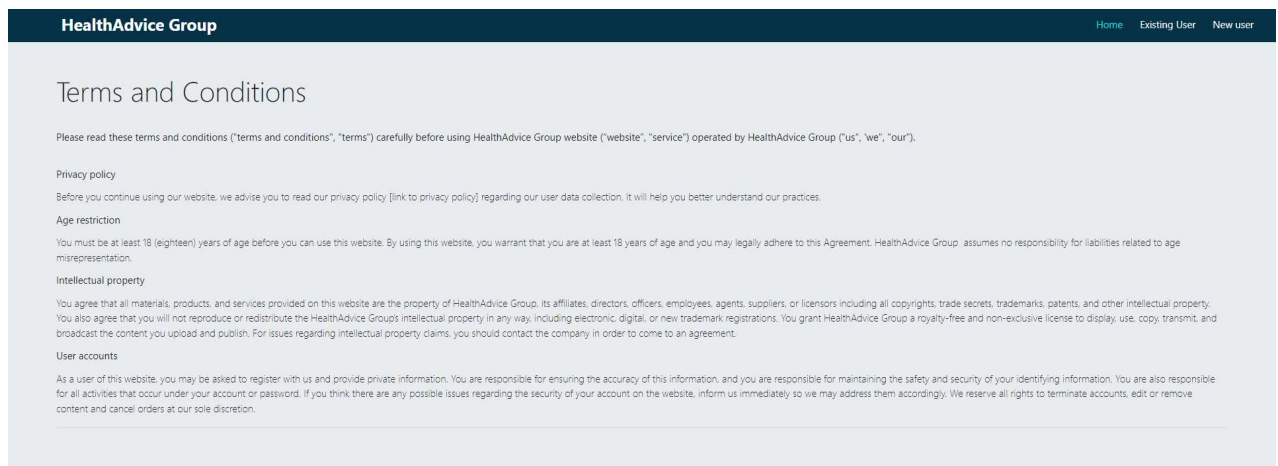
This development log will contain information on each major change through each version, and the justification of some of the changes made. As well as what will be/can be done in future iterations.

## V1.0 – (Worked on 06.03.23 – 08.03.23)

Major changes made:

- Created site route folder/setup bootstrap.
- Creation of a home page
- Creation of a cookies page
- Creation of a terms and conditions page
- Creation of a side-wide usable footer/navigation bar





## Summary of changes:

The screenshots above illustrate what was achieved in the initial version of the prototype. This version although not much in terms of functionality was achieved was the base/foundation of the design for the rest of the site. A grey/blue/white theme was chosen as I believe it best fits the purpose of what the site will be used for (nature, clouds, environment themed colours).

The terms and conditions page as well as the cookies page are vital to ensure that Health Advice Group remains compliant with all the in place regulations/legislation, although the policies themselves set out in the screenshots above are just provisional, these will be changed later as required.

The footer and navigation bar are key also to the site as they contribute to the overall identity of the website. Especially the navigation bar which is the first thing in the visual hierarchy and contains the name/logo of the site.

For the time being, as mentioned only the design was focused on here so the links such as the 'new user' and 'existing user' links currently do not go anywhere as them pages have not been created.

\*This is not the final version of these pages; the contents and design are subject to change throughout development.

\*All code for the above pages can be found in the site source folder under V1.0

## V1.1 – (Worked on 13.03.23 – 15.03.23)

Major changes made:

- Addition of a login page
- Addition of a registration page
- Functionality for the login/register page to validate users
- Error/success message pages created
- Weather forecast page (client requirement)
- Home page for a logged in user

HealthAdvice Group

Home Existing User New user

Please Login Below

If you have forgot your password, press the button below to request a reset

Contact Us

Login

Email  Password

Not have an account? [Sign Up Here](#)

HealthAdvice Group

Home Existing User New user

Please Login Below

If you have forgot your password, press the button below to request a reset or if your a new user register.

Contact Us Register

Email

Password

Login

H.A.G

Copyright © 2023 - All Rights Reserved

[Terms and Conditions](#) - [Cookies Policy](#)

First Name

Last Name

Date Of Birth

dd/mm/yyyy

Email

Create Password

Register

Search

Weather in London

9.72°C

Broken Clouds

Humidity: 42%

Wind speed: 3.09 km/h

Health Advice

From -10 to 0 : Freezing Temperatures - Only go out if essential, and ensure to wear thermal clothing including gloves, hat and scarf. Not recommended to go out for the elderly and previous sufferers of hypothermia.

From 0 to 25 : Normal - Continue with your day to day activities, no action needed.

From 25+ : Heat Wave - Extreme heat may cause migranes and heat strokes, ensure you keep cool by not sitting in direct sunlight and drink plenty of water.

Click here to find out more

ABOUT US

Weather forecast

Learn the live weather conditions in your area, to inform your health condition. Register now to find out.

We are a charity striving to provide our users with the most upto date health information based on the environment and weather conditions

Health Advice

The environment and weather xan have an adverse effect on health, get tips and advice by registering now.

Justification/summary of changes:

In this iteration as you can see above there was quite a few new additions to the website as a result of the navigation bar, footer and other base design of the site already being created in the previous version. A bootstrap login and register page, was created as well as functionality being added to these pages, this can be see in the final prototype screenshots below in the document and the source folder. ALL PAGES CREATED IN PREVIOUS VERSIONS ARE CONTINUING INTO THIS VERSION.

As there are strict laws and regulations on user data and security, this is the reason that a login to the site is required in order to access the services, for the company and users safety. The privacy policy and terms and conditions pages outline how the users data in registration will be used and the users rights on their data.

As well as these pages, the development of the weather forecast page has also begun, as this is one of our client requirements, so far only the functionality of the location-based weather forecast and a simple health advice section was created, this page will be enhanced in terms of design and contents in the future iterations.

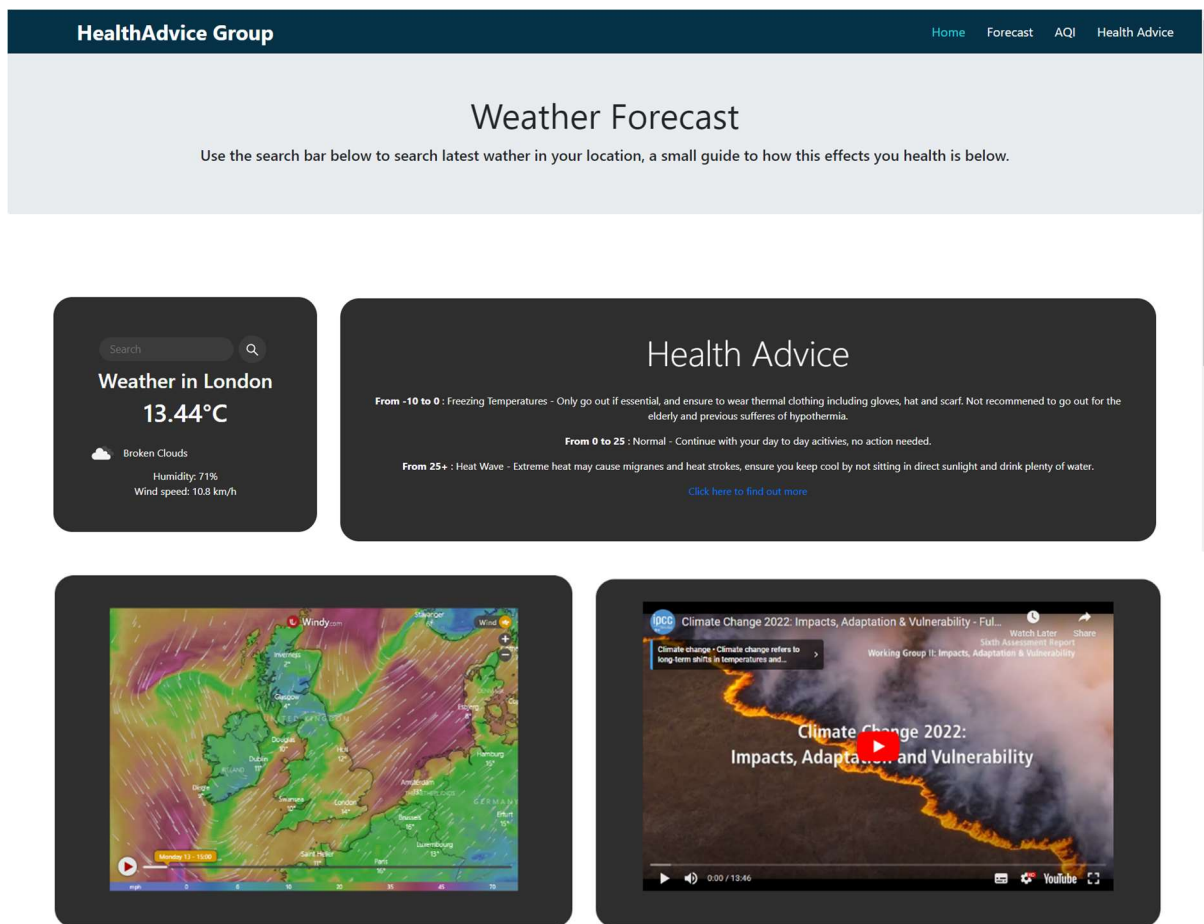
As well as this a user login landing page, was created so that the user knows when they have logged in, at the moment this is just a copy of the home page, with slightly altered title, but this will e enhanced in the future versions.

\*All pages in this version are subject to change, such as the contents and the design.

## V1.2 – (Worked on 20.03.23 – 21.03.23)

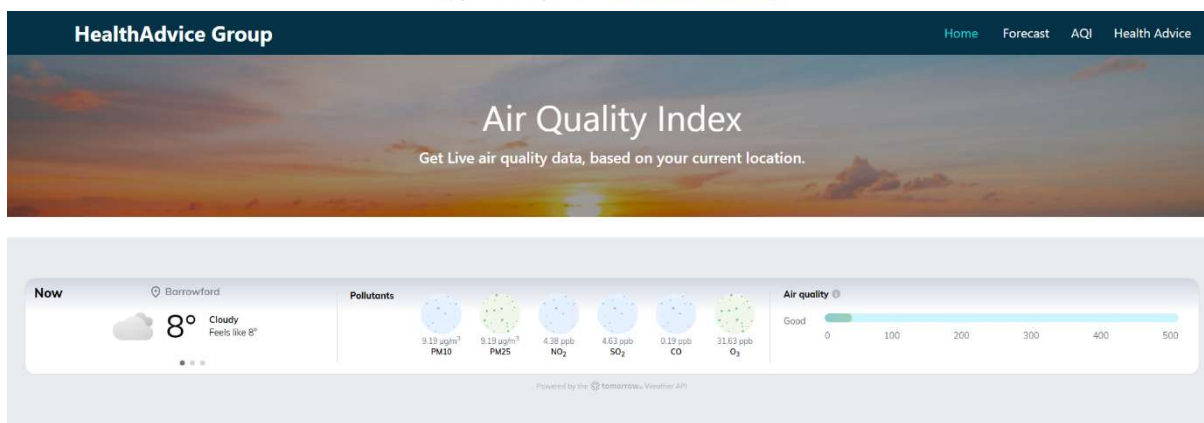
Major changes made:

- Created an air quality index page as per client requirements
- enhancements to the weather forecast page
- changes to the user login landing page
- fixed the links in the navigation bar and footer on all pages so they can redirect



H.A.G

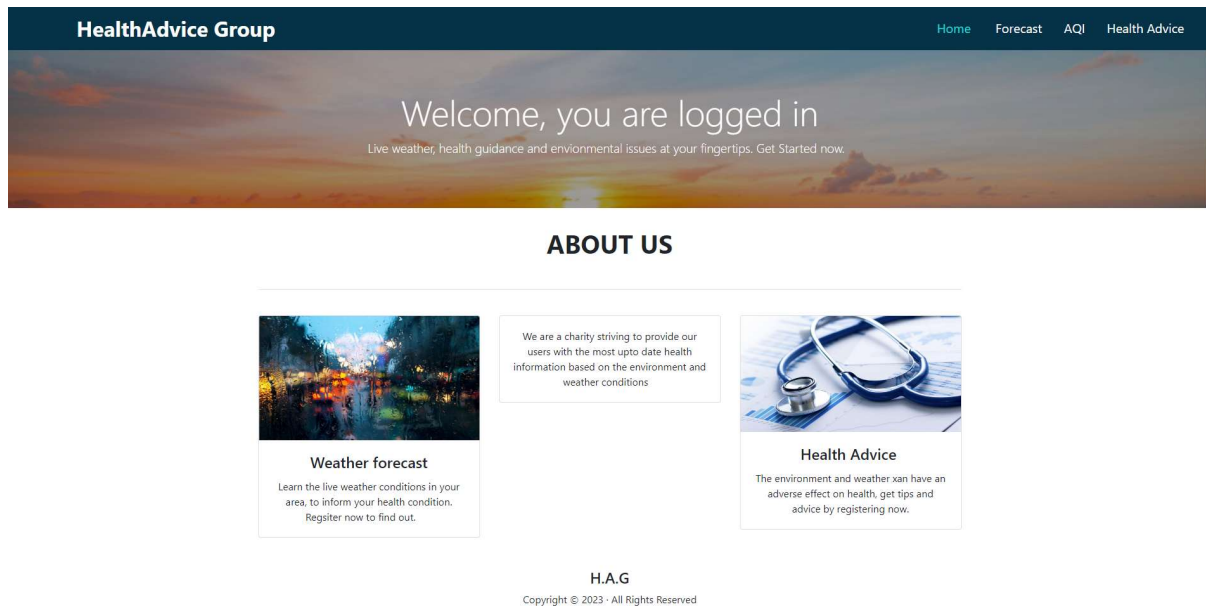
Copyright © 2023 - All Rights Reserved - [Terms and Conditions](#) - [Cookies Policy](#)



H.A.G

Copyright © 2023 - All Rights Reserved

[Terms and Conditions](#) - [Cookies Policy](#)



### Summary/Justification of changes:

This version only involved the creation of a Air quality index as it was specified in the client requirements, the page contains the basic data but is not yet finished, as it will get more contents as well as a better layout in future versions. Other than this in V1.2 there was mostly enhancements made such as the fixing of links in the navigation bar to take the user between the pages for a better user experience. As well as updates to other pages such as a refreshed weather page with a lot more content and a better layout (although it isn't the final version), a newer designed landing page from the login and the addition of social media links on the home page.

As mentioned above, this version focused on enhancing user experience and further developing pages which weren't quite finished.

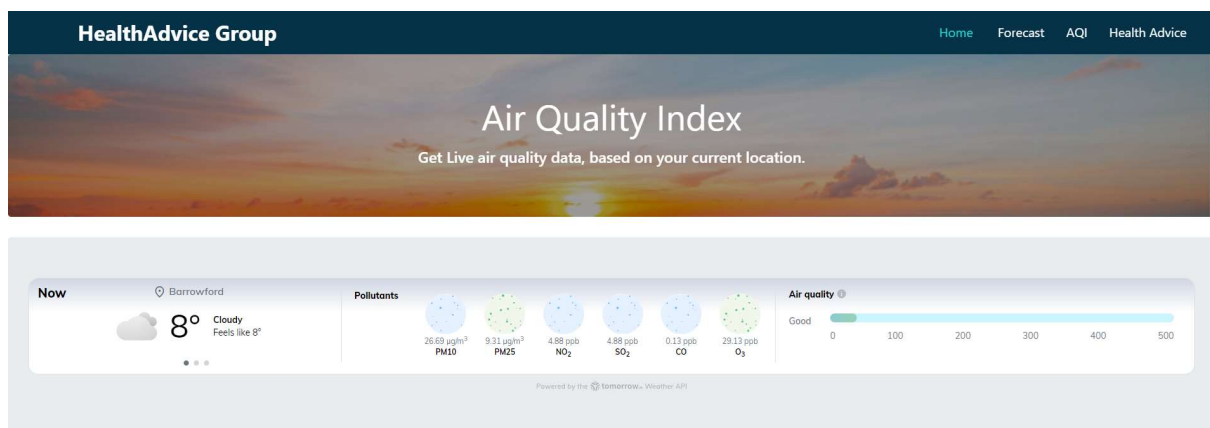
\*The web pages here are subject to change, such as the design and contents, and could also be removed in future versions.



## V1.3 – (Worked on 22.03.23 – 28.03.23)

Major changes made:

- Created a health advice page (as per client requirements)
- Added an accessibility page, as well as an invert colour feature on all pages
- Added functionality to the password confirmation fields.
- Added a background to the weather page.
- Updated AQI page with more content and a better design
- Other minor changes (fixing broken links, correcting spelling mistakes etc)
- Addition of a cookies agreement box on the home page



### What does AQI mean?

Air Quality Index is a measure of the quality of air in a specific area. This quality is determined by the amount of pollutants in the area, such as CO2, NO and SO as an example. The better the AQI is the more healthier the area is for human life and the environment.

**Between Levels 0 and 100** - This is an excellent air quality, meaning your environment is filled with nice fresh air and minimal pollutants.

**Between Levels 100 and 300** - Air quality isn't great, however is not the worst. It means there are a moderate amount of pollutants in the environment, severe action is not needed however people with health conditions may need to be wary.

**300 and above** - Dangerous Air Quality levels, means that there is a heavy amount of pollutants nearby, so attempt to avoid busy area. People with health conditions may need to carry medication and potentially think about moving away

[Click here to find out more](#)

A video player interface showing a sunset scene with several smokestacks emitting thick smoke into the sky. The video player includes a progress bar at the bottom indicating a duration of 0:00 / 3:52, along with standard playback controls like play, volume, and full screen.

## Health Advice

See below, for health advice based on weather and environmental conditions

### Extreme Heat Scenarios

An extreme heat scenario is that where the temperature is above 35 Degrees.

- Avoid direct sunlight, specially if you have skin conditions.
- Drink plenty of water to stay hydrated, in the heat
- Wear sunscreen if going out is essential
- Stay Cool by having cold foods and drinks

If you have any questions or concerns you can contact us now

[Contact Us](#)

### Extreme Cold Scenarios

An extreme cold scenario is that where the temperature is below 0 Degrees.

- Avoid direct sunlight, specially if you have skin conditions.
- Drink plenty of water to stay hydrated, in the heat
- Wear sunscreen if going out is essential
- Stay Cool by having cold foods and drinks

If you have any questions or concerns you can contact us now

[Contact Us](#)

## Climate change

### What is climate change?

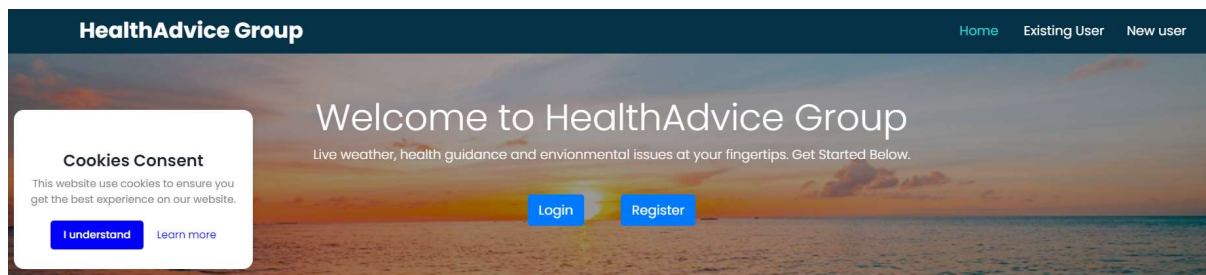
Climate is the average weather in a place over many years. Climate change is a shift in those average conditions. The rapid climate change we are now seeing is caused by humans using oil, gas and coal for their homes, factories and transport. When these fossil fuels burn, they release greenhouse gases - mostly carbon dioxide (CO<sub>2</sub>). These gases trap the Sun's heat and cause the planet's temperature to rise. The world is now about 1.1C warmer than it was in the 19th Century - and the amount of CO<sub>2</sub> in the atmosphere has risen by 50%.

### What is the impact of climate change?

Extreme weather events are already more intense across the globe, threatening lives and livelihoods. With further warming, some regions could become uninhabitable, as farmland turns into desert. East Africa is currently facing its fifth season of failed rains, which the UN's World Food Programme says has put up to 22 million people at risk of severe hunger. Extreme temperatures can also increase the risk of wildfires - as seen in Europe this summer. France and Germany recorded about seven times more land burnt between January and the middle of July 2022, compared with the average.

Data from the BBC (<https://www.bbc.co.uk/news/science-environment-24021772>)

[Find out More on the BBC](#)



## ABOUT US



We are a charity striving to provide our users with the most upto date health information based on the environment and weather conditions



### Summary/Justification of changes:

This is the final version of the prototype for HealthAdvice Group, within this I made sure all the client requirements have been fulfilled, by including a health advice page as well as accessibility considerations (accessibility statement as well as a colour invert feature on all pages). This is important to make sure the client is happy with the final solution and can sign off. Regarding accessibility, as well as this being a desired feature its also a legal requirement in the UK for companies to give accessibility considerations on their websites in order to open it up to a larger audience and have equality. There many other minor things also completed such as correcting minor grammatical errors, ensuring credit was given to all the 3<sup>rd</sup> party sources (Intellectual property considerations) and changing some backgrounds on some pages to rule out whitespace. Finally, I also made some changes to the terms and cookies to be better suited to the health and data industries and added a password confirmation system when creating the password, which increases user experience as there are fewer accidental errors, a cookies agreement box was also added to the home page as this further enhances the sites compliance with GDPR, and ensures there is a clear understanding of data collection between the user and the company.

As you can see now that the pages have been completed, they are all very consistent with one another, all the pages have the same dark background widgets which contain the videos/weather/information on, across all three pages (weather, AQI, health advice) and all three pages also contain the same navigation bar, footer and colour scheme, which adds to the consistency of the solution and a brand identity.

All videos on the site also contain subtitles, and an enlargement feature for accessibility purposes as well as an alt text in the code.

### Future versions:

Although I have worked hard to ensure most to all client requirements were met and to ensure that all desired features were implemented, due to time constraints I was unable to

complete everything. Some things I would have liked the prototype to contain that could be included in future versions are:

- A better catered account home page, for when the user logs in, to show their account details and the ability to change these details from there.
- Ability for users to reset their forgotten password for increased user experience.
- The creation of a contact us page, as a support channel for users who may have queries/issues/recommendations for the site.
- The addition of other accessibility features such as a magnify glass, and text-to-speech for people who may have visual impairments.