



T LEVEL

*Technical Qualification in
Digital Production, Design
and Development*

Grade Standard Exemplification

Materials Summer 2023

Occupational Specialism:

Digital Production,

Design and Development

Distinction Version 1.0

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Introduction

The assessment for the Occupational Specialism in Digital Production, Design and Development is based around a scenario-based project. The scenario was to develop a digital solution for a tutoring company.

Students completed the assessment in 87 hours of supervised sessions spread over a period covering 14 weeks. The assessment is split into four tasks covering a range of topics. These are summarised below:

Task	Topic	Evidence	Time
1	Analysing the problem and designing a solution	Proposal of the designed solution and a set of design documents	20 hours
2	Developing the solution	Prototype, development documents, test log and code for prototype solution	30 hours
3a	Gathering feedback to inform future development	Plan and report on gathering feedback	15 hours 30 minutes
3b	Evaluating feedback to inform future development	Feedback evaluation report	2 hours

In the assessment for the Digital Production, Design and Development Occupational Specialism scenario it is expected that the student will demonstrate many of the Distinction performance characteristics detailed in the grade descriptors. However, borderline performance will demonstrate these characteristics less consistently. Some key aspects of performance include:

- comprehensive analysis of a problem showing a detailed and perceptive consideration of the factors, solving issues, and fixing obvious or less complex defects
- production of different versions of an artefact that will be primarily functional, efficient, and respond effectively to users
- effective and fluent use of technical language
- effective evaluative processes.

The portfolio selected for this report was assessed at Distinction grade. This is the assessed grade of the portfolio as a whole and not the grade of each individual piece of work submitted as part of the portfolio. Comment will be made where the

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student work does not fully meet the Distinction grade descriptors and will suggest the evidence that is not included and should have been included.

Task 1 Activity A(ii): The Proposal

User stories:

Customers:

As a <role>	I want to <goal>	So that <benefit>	Acceptance Criteria
As a customer with an asthma condition	I want to view advice on asthma	So, I can improve my asthma	Go to home page Click on advice page Search or filter for article Click on article
As a new customer unsure about the safety of their home	I want to complete a risk assessment	So, I can make my house safer and more risk-free	Go to home page Click on risk assessment page Register account Login with details Enter date Enter time Submit details Check email for confirmation receipt

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As a returning customer unsure about the safety of their home	I want to complete a risk assessment	So, I can make my house safer and more risk-free	Go to home page Click on risk assessment page Login with details Enter date Enter time Submit details Check email for confirmation receipt
As a returning customer unsure about the safety of their home	I want to complete another risk assessment	So, I can make sure my house is still safe and risk-free	Go to home page Click on risk assessment page Login with details Error to appear as a risk assessment can be done once every 2 weeks
As a new customer	I want to look at the about me page	So, that I can find out what this website can do	Go to home page Click on about me page
As an elderly new customer	I want to look at the policies page	So, that I understand how this website stores data and copyright laws	Go to home page Scroll down to the bottom footer Click on policy page
As a computer science student	I want to look at the terms and conditions page	So, that I understand what I consent to if I register	Go to home page Scroll down to the bottom footer Click on policy page
As a frequent customer	I want to look at the new articles	So, that I can see what articles I haven't read yet	Go to home page Scroll down to recent articles
As a new customer who wants to know more about my health	I want to register	So, that I can see details and forecasts about my health	Go to home page Click on register page Enter name, email, password and agree to terms and conditions Login
As a customer with disabilities	I want to access the accessibility panel	So, that I can improve my user experience	Go to home page Click accessibility panel Choose features and click save
As a returning customer	I want to login	So, that I can enter my symptoms	Go to home page Click login page Enter email and password Click enter symptoms

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Empathy map:

Customers:

- Thinks:
 - How do I book a risk assessment?
 - I hope this website is trustworthy.
 - Is this information correct, I've seen people say different about this.
 - I really want to register so I can view customised health advice.
 - Why isn't this opening up?
 - Oh no, I forgot my password.
 - I can't attend this risk assessment; I need to cancel it.
 - This sounds like an amazing charity.
 - I hope I don't have to pay for the risk assessment.
 - I need help with my asthma, I hope it has articles on this.
- Says:
 - How do I filter for an article?
 - What information does the website take from me?
 - Will I be able to cancel a risk assessment?
 - This new digital solution looks great!
 - Do you have articles for asthma?
 - How does the website check for air quality and how do I know it's accurate?
 - Do I need to pay to use this feature?
 - How do I reset my password?
 - The accessibility panel doesn't have this feature, will you be able to add it?
 - I'm struggling with signing up, can you please help?
- Does:
 - Books a risk assessment
 - Makes an account
 - Reads the terms and conditions
 - Filters for articles
 - Uses check symptoms feature
 - Checks for air quality in the area
 - Reads on asthma articles

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Justification of how potential risks will be mitigated:

Creating the solution:

- Not enough resources – Plan how many resources the project will need.
- Not enough time – Plan and estimate the time the project will take.
- Errors in the solution – Plan for errors in the solution, hardest functions to code.
- Not enough knowledge – Plan and prepare for what knowledge might need to be used.

Viewing articles:

- Page doesn't load – Test the pages for this function and make sure there is nothing that is increasing the time of the response.
- Can't find the specific article – Add search and filter options so the customer can filter for articles.
- Page doesn't load as it should (not web responsive) – Test the page to be web responsive on all devices before deployment.
- Article has outdated information (not reliable) – Update article information every 6 months to make sure it's updated

Create risk assessment appointment:

- Customer entered wrong information and can't go back – Add a delete option to a risk assessment appointment in the profile settings
- Customer doesn't know how to cancel a risk assessment appointment – Add an information page link to the receipt once the risk assessment has been booked to tell the user that they can delete their account with a link to the settings.
- Customer cannot attend risk assessment appointment – Clearly display instruction page on the risk assessment booking page explaining to the customer that they can cancel the appointment.

Lead Examiner Commentary:

Functional Proficiency:

The platform boasts a dynamic weather display based on the user's location. Information about extreme cold/heat is curated and presented contextually, enhancing user preparedness. Their risk assessment tool for home environments is innovative and practical based on weather conditions.

Performance Excellence:

The platform's efficiency in accessing and processing live weather data through API calls sets it apart. Their storage mechanisms for data, ensuring quick retrieval and use for personalised health information, indicate a high degree of technical prowess.

KPI:

Metrics such as user engagement with health advice, accuracy of weather predictions and user retention rates showcase the student's ability to keep the platform's objectives aligned with its performance.

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User Standard Adherence:

It is commendable that they prioritise accessibility on their platform by including features such as alt text, resizable fonts, and selectable colour schemes. Their adherence to W3C guidelines further emphasises their commitment to universal design. The platform's reliability, which provides timely and accurate weather updates, helps to establish trust with its users.

This student's work on the weather and health advisory platform exhibits a blend of technical expertise and user-centric design. Their attention to detail, commitment to accessibility and the holistic integration of health and weather data undoubtedly meet the criteria for distinction-level recognition.

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Task 1 Activity B: The Design – The Visual/Interface Design

Student Evidence Review:

The screenshot shows a web page for 'Health Advice Group'. At the top, there's a navigation bar with links for Home, Advice, About us, Risk assessment, Register, and Login. The main header features a colorful illustration of medical professionals and various health-related icons like pills, a stethoscope, and a wheelchair. Below the header, there's a weather forecast section showing a temperature of 9°C/49°F, precipitation at 10%, humidity at 70%, and wind at 7 mph. It includes a 7-day temperature and weather icon chart. A sidebar on the right lists 'New articles' with titles: Article 1, Article 2, Article 3, Article 4, and Article 5. To the right of the sidebar is a call-to-action text: 'Register now to get customized health advice, air quality and check your symptoms!' with a wheelchair accessibility icon. At the bottom, there's a footer with links for Home, About us, Policy, and Terms and conditions.

Health Advice Group

Home Advice About us Risk assessment Register Login

Monday Partly cloudy

9 °C | 49°F Precipitation: 10% Humidity: 70% Wind: 7 mph

Temperature Precipitation Wind

Time	Temp (°C)	Temp (°F)	Wind
11:00	9	49	7 mph
14:00	8	46	7 mph
17:00	9	48	7 mph
20:00	6	43	7 mph
23:00	4	39	7 mph
02:00	6	43	7 mph
05:00	3	37	7 mph
08:00	2	36	7 mph

Most common health issues currently:
health issues

New articles

- Article 1
- Article 2
- Article 3
- Article 4
- Article 5

Register now to get customized health advice, air quality and check your symptoms!

Home About us Policy Terms and conditions

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The screenshot shows a web-based booking system. At the top, there's a navigation bar with links to Home, About us, Policy, and Terms and conditions. Below this is a secondary navigation bar with links to Home, Advice, About us, and Risk assessment, where 'Risk assessment' is highlighted. On the right side of the secondary bar are links for Register and Login. The main content area has a title 'Risk Assessment Booking'. To the left, a message says 'Please login first to book' with a blue 'Login' button. In the center, there's a calendar titled '2023 FEBRUARY' with days from Sunday to Saturday. To the right of the calendar, there's a section for choosing a time with options: 8:00am, 10:00am, 12:00pm, 14:00pm, and 16:00pm. A blue 'Submit' button is located at the bottom right of this section. A small accessibility icon (a person in a wheelchair) is also present. A note below the booking form states: 'This booking can be cancelled at any time, but you cannot book another risk assessment appointment before 2 weeks have passed since your last risk assessment appointment.'

Lead Examiner Commentary:

The student's design interface is a presentation of excellence, encapsulating an astute understanding of modern design principles and seamless integration of them into the intended solution:

Mastery in Layout and White Space:

The design showcases clear boundaries, creating focused zones that allow users to focus on specific content without distractions.

Their spacing between lines is methodical, enhancing readability and ensuring that the information presented doesn't feel clustered.

Proximity in their design is used purposefully. Elements that relay related information are placed together yet maintain their own space, ensuring different parts of the content don't infringe upon each other.

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With an understanding of cognitive load, the student ensures that the design introduces information in indigestible chunks, using sensible breaks to prevent user overload.

The design exhibits adaptability. It provides details of reactive layouts optimised for various screens and devices, ensuring a seamless experience across mobiles and desktops.

Sophistication in Visual Hierarchies:

Every element in the design communicates intention. The sizing of items and information is neither arbitrary nor whimsical; it aims to guide user focus and optimise the ingestion of information.

The design elements have been meticulously sequenced. The order in navigation bars and menus isn't just aesthetic; it signifies a route through the information, subtly guiding users in their journey.

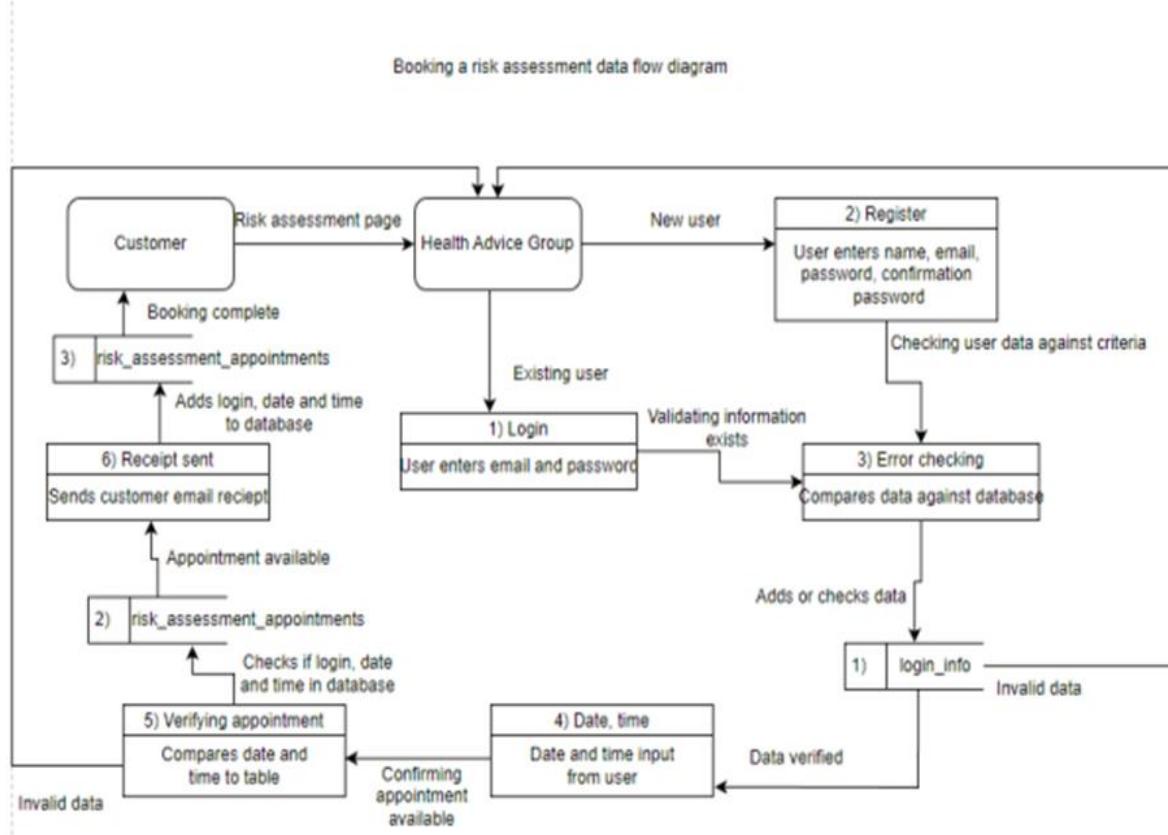
Adherence to Common Conventions:

The student's design doesn't reinvent the wheel where it doesn't need to. It harnesses recognisable patterns, grounding the user in familiarity while offering a fresh experience. Iconography, for instance, uses common motifs (like a house symbolising 'home'), ensuring instant recognition and understanding.

Task 1 Activity B: The Design – Algorithm Design

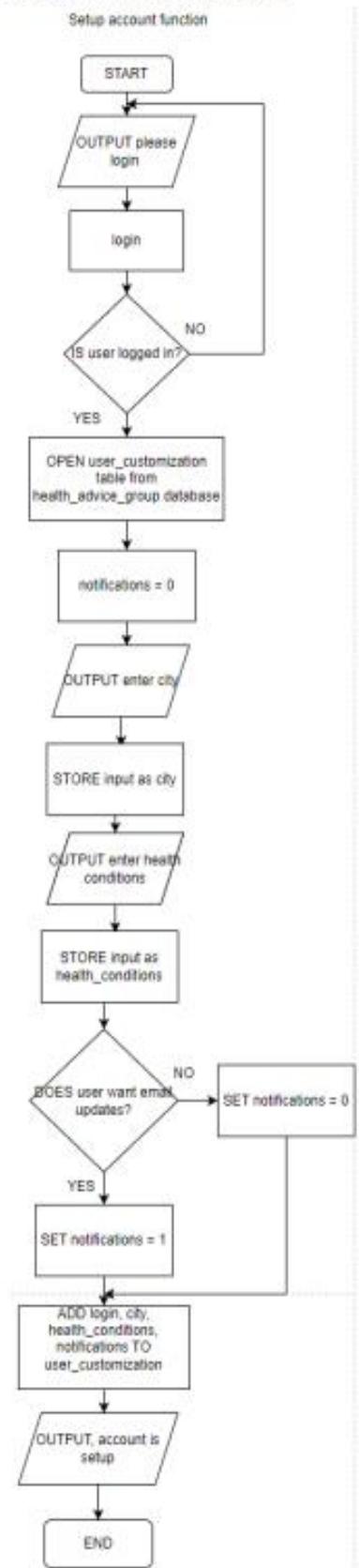
Student Evidence Review:

Task 1b Data Flow Diagram:



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Setup Account Flowchart:



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Lead Examiner Commentary:

Diving deep into the challenges and their resolution:

Inputs:

They designed a system that captures real-time location data, ensuring users receive the most relevant weather information.

They also integrated capabilities for users to input health specifics and derive personalised health advice about prevailing weather conditions.

On the Topic of Processes:

Their adeptness in integrating live weather data through API calls stands out, offering real-time updates. The student showcased a masterful understanding of data analysis, harnessing it to deliver tailored health information and advice.

Speaking of Outputs:

The dashboard presents temperature, air quality, and other critical metrics. Digital content relating to extreme weather conditions is informative and engaging, aiding users to prepare and respond effectively.

Task 1 Activity B: The Design – The Data Requirements

Student Evidence Review:

Task 1b Data Dictionary:

Field Name	Data Type	Data Format	Field Size	Description	Example
article_id	Integer	x...	11	Article id	1
article_name	Medium text	-	16,777,215	Article title	How to deal with asthma
article_category	Varchar	-	255	Category of the article	Health issues
publisher_name	Varchar	-	255	Name of the person who published the article	
published_date	Date	YYYY-MM-DD	-	Date of when the article was published	2004-12-26
published_time	Time	HH:MM:SS	-	Time of when the article was published	04:30:00
content	Long text	-	4,294,967,295	Content of the article	Asthma can be improved by...
accessibility_id	Integer	x...	11	Accessibility preference id	2
user_ip	Varchar	-	255	IP address of the user	181.252.15.132
feature_1	Bit	x	1	True or false statement using binary to save user's accessibility panel preferences. This represents if the feature is being used or not.	1
feature_2	Bit	x	1	True or false statement using binary to save user's accessibility panel preferences. This represents if the feature is being used or not.	0
feature_3	Bit	x	1	True or false statement using binary to save user's accessibility panel preferences. This represents if	1

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Lead Examiner Commentary:

The student has an intricate grasp of the data requirements for the solution. This is evident not just in their selection but in the meticulous way they've implemented them:

Variables:

Each variable declared and used in the solution isn't just functionally relevant but resonates with the problem's essence. This ensures clarity and relevance, fostering a streamlined codebase.

Data Structures:

Demonstrating a deep-rooted understanding of algorithmic efficiency, the student has judiciously opted for data structures that align perfectly with the operations to be executed. This not only optimises processing time but also enhances resource management.

Data Types:

The student demonstrated exceptional attention to detail in selecting the most suitable data types, optimising memory usage and preserving data integrity.

One of the standout attributes of the student's work is the clarity brought about by their naming conventions. Each variable, data structure, and even constant, resonates with its purpose, making the code highly legible and maintainable. This attention to detail ensures that any developer, whether part of the initial development or not, can quickly comprehend the code's purpose and function, signifying a hallmark of distinction-level work.

Error-Handling Master:

Perhaps the most commendable aspect is the student's approach to error handling. They've showcased an ability to pre-empt potential pitfalls and have instituted error-handling procedures that not only catch these exceptions but guide the system or the user to rectify or understand them. This robustness ensures the system remains stable and reliable, even when faced with unforeseen input scenarios or process breakdowns.

The student's work demonstrates a good understanding of effective data management and software robustness. Their diligence in maintaining clarity, optimising resources and ensuring system resilience categorically positions their

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work at a distinction level.

Task 1 Activity B: The Design – The Test Strategy

Student Evidence Review:

Testing the whole solution to see how responsive it is.	Clicking on different pages.	Responsiveness and loading times.	The solution should load each page quickly and efficiently.	The solution loads each page very quickly.	No comments.
Testing the register page to see if it displays error messages for non-matching passwords.	Name: testname Email Address: test@gmail.com Password: test123 Repeat Password: test Accept terms and conditions: Yes	Unit testing, abnormal data .	The solution should not allow the user to register with non-matching passwords and produce an error.	The solution produces an error saying the passwords do not match.	No comments.
Testing the register page to see if it displays error messages for submitting empty fields.	Submitting empty fields.	Unit testing, abnormal data .	The solution should not allow the user to register with empty fields and should not proceed the user any further.	The solution produces an error saying the fields are empty.	No comments.
Testing the register page to see if it displays error messages for an extreme input for the email field.	Name: testname Email Address: test@gmail.comUFIOfowqpeu3910 Password: test123 Repeat Password:	Unit testing, extreme data .	The solution should not allow the user to register with an incorrectly formatted email.	The solution allows the user to register with this email which it should produce an error to instead.	This hasn't been fixed yet.

Lead Examiner Commentary:

Understanding Component Interrelation:

The student's strategy doesn't view the software components in isolation but as part of a harmonious ensemble. They have showcased a deep understanding of how each component interacts with the other, pre-empting possible integration issues and addressing them proactively. This ensures that the software doesn't just function as a collection of units but as a well-synchronised system.

Orderly Component Testing:

The student has demonstrated their strategic understanding by creating a precise testing plan. This plan considers the logic of dependencies and operational sequence, meaning that the order in which components are tested is not arbitrary. Any errors found can be traced back efficiently by testing foundational elements before moving to dependent ones, reducing the time spent on iterative debugging. Overall, this approach ensures that the testing process is effective and efficient.

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Diversity in Test Types:

The student understands that software robustness encompasses more than just functional correctness but also performance, usability and security. To ensure the software is robust, they have implemented various tests, including unit tests to validate individual functions, integration tests to ensure smooth inter-component interactions, performance tests to measure response times and resource utilisation, and security tests to detect vulnerabilities. Their testing strategy is comprehensive and focused.

Task 2: Developing the Solution

Student Evidence Review:

Login Page:

The screenshot shows a login page for a website called "Health Advice Group". The header includes the logo (a heart with a pulse line), navigation links for "Home", "Advice", "About us", and "Risk assessment", and buttons for "Register" and "Login". A "disabled" icon is also present. The main content area is titled "Login" and contains a form with fields for "Email" and "Password", a "Login" button, and links for "Forgot password?" and "Don't have an account? Register here". At the bottom, there is a teal footer bar with links for "Home", "About us", "Policy", and "Terms and conditions".

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```
<?php
include("db.php"); // uses the database connection file
session_start();

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // this will collect the email and password and store them so they can be checked against the database
    $email = mysqli_real_escape_string($link, $_POST['email']);
    $password = mysqli_real_escape_string($link, $_POST['password']);
    $_SESSION["email"] = $email;
    $_SESSION["password"] = $password;

    // performs an sql query so it can change the data against the database to verify the user
    $sql = "SELECT * FROM login_information WHERE email = '$email' AND password = '$password'";
    $result = mysqli_query($link, $sql);

    // if results have came back and there is a row
    if (mysqli_num_rows($result) == 1) {
        header('Location: profile_page.php'); // user is redirected to the profile page
        exit();
    } else {
        $error = "Invalid email or password."; // if there's no results from the database, an error message will be displayed
        echo '<p class="d-flex justify-content-center align-items-center align-content-center justify-content-lg-center align-items-lg-center" style="height: 35vh;font-size: 24px;font-weight: bold;" <strong>Error!</strong> ' . $error.
        '</div>';

    // run query using
    $query = http_build_query($params);

    error_reporting(E_ERROR | E_PARSE);

    // fetch data from API
    $url = $endpoint . '?' . $query;
    $response = file_get_contents($url);

    // parse JSON response
    $data = json_decode($response, true);

    // display weather data
    if (isset($data['main']['temp'])) {
        echo '<h2 class="d-flex justify-content-center align-items-center" style="font-size: 25px;">Current weather in ' . $_GET['city'] . ':</h2>';
        echo '<p class="d-flex justify-content-center align-items-center" style="font-size: 20px;">Temperature: ' . $data['main']['temp'] . '&deg;C</p>';
        echo '<p class="d-flex justify-content-center align-items-center" style="font-size: 20px;">Humidity: ' . $data['main']['humidity'] . '%</p>';
        echo '<p class="d-flex justify-content-center align-items-center" style="font-size: 20px;">Wind speed: ' . $data['wind']['speed'] . ' m/s</p>';

        // check weather conditions and show health issues
        if ($data['main']['temp'] > 30) {
            echo '<p class="text-center" style="font-size: 20px;">It is very hot, stay hydrated and avoid sunburn.</p>';
        } elseif ($data['main']['temp'] < 10) {
            echo '<p class="text-center" style="font-size: 20px;">It is very cold, dress warmly and avoid frostbite.</p>';
        } else {
            echo '<p class="text-center" style="font-size: 20px;">The temperature is comfortable, enjoy your day!</p>';
        }

        if ($data['main']['humidity'] > 80) {
            echo '<p class="text-center" style="font-size: 20px;">It is very humid, be cautious of mold and respiratory problems.</p>';
        } elseif ($data['main']['humidity'] < 30) {
            echo '<p class="text-center" style="font-size: 20px;">It is very dry, stay hydrated and moisturize your skin.</p>';
        }

        if ($data['wind']['speed'] > 15) {
            echo '<p class="text-center" style="font-size: 20px;">It is very windy, be cautious of airborne allergens and debris.</p>';
        } elseif ($data['wind']['speed'] < 5) {
            echo '<p class="text-center" style="font-size: 20px;">The wind is very calm, enjoy the peaceful weather!</p>';
        }
    } else {
        echo '<p>No weather data available for ' . $_GET['city'] . '.</p>';
    }
}
?>
```

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Lead Examiner Commentary:

Code Efficiency:

What sets the student apart is their adeptness in implementing the solution in not just one but two different programming languages. Their ability to maintain consistent efficiency across languages underscores their versatility and deep-rooted understanding of language-specific paradigms and intricacies.

Precision in Logic and Structure:

The code isn't just functional but radiates a logical elegance. By consistently employing precise logic and adhering to best-practice programming structures, they have ensured that the prototype yields correct outcomes with impressive consistency, reflecting a blend of thoughtful design and meticulous implementation.

Maintainability & Clarity:

Naming Conventions:

Each identifier, whether a variable, function or class, resonates with its purpose, ensuring clarity briefly.

Logical Organisation:

The structure of the codebase and the flow within modules underline a logical progression, making navigation and understanding effortless.

Informative Commenting:

Comments peppered throughout the code provide invaluable context, aiding any third party in grasping the underlying logic without undue effort.

User-Centric Design:

The prototype doesn't merely function; it interacts. By emphasising effective input handling, intuitive user guidance, clear error messages and meaningful outputs, the student ensures an exemplary user experience. This focus on the end-user's perspective is a distinguishing feature of their work.

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Robustness & Error Management:

True to distinction-level criteria, the prototype's resilience is commendable. Not only does it handle common scenarios flawlessly, but it also manages unexpected errors, ensuring uninterrupted and reliable user experiences.

Adherence to Standards & Ethical Considerations:

The student's commitment to excellence extends beyond functionality. They have consistently applied standards and guidelines, emphasising accessibility and compatibility. Furthermore, their code reflects a deep understanding and respect for legal and ethical considerations, ensuring the prototype is technically sound and socially responsible.

Task 3 Part A: Gathering Feedback to Inform Future Development

Student Evidence Review:

Overall Summary of Testers Feedback:

Layout:

Overall, a lot of people have liked the layout, many have said that the fonts and text are readable and very bold, some have said the opposite stating that it was the font was too small to read, the testers had a hard time finding where the accessibility panel was which could be improved, one has claimed that there's quite a bit too much white space on the pages. Many have claimed that the colours are nice to look at, the logo also being relevant to the company. The testers have also claimed the colours make the accessibility panel hard to see, they struggle recognising that this is an accessibility panel and has majority of the negative feedback.

Home page:

Many have claimed that the accessibility panel needs to be a lot more visible with possibly arrows pointing at it, many have also said that the image conveys the website branding. There were many responses claiming that there is too much white space, and they could be filled with more articles. Additionally, a huge number of responses have claimed that there needs to be descriptions for the new article's sections/previews and descriptions of the website and each page since some didn't understand what the website would be about or the articles. Some testers have said that this page could be useful to some but not them since their health is fine.

Advice page:

Many testers have said that they find this page useful and that there are really no issues except pagination being too small, preference if the page was called articles and it'd be better if a search bar was implemented. This page has very little negative feedback and they have claimed that the layout is good, it does its job efficiently, it's useful and necessary and is minimalistic. They like how accessible it is, and the brief overview of the article.

About us page:

Many testers have said that the image conveys and relates to the website allowing for users to understand what the website is about, and one has said that the image provides comfort. However, quite a few have said that the about us page is not very useful to them since there is not really any text and just an image, and some have said that the image doesn't convey the brand since the image just shows a globe and a stethoscope. One would prefer if the accessibility panel was changed. There were mostly positive responses for the page.

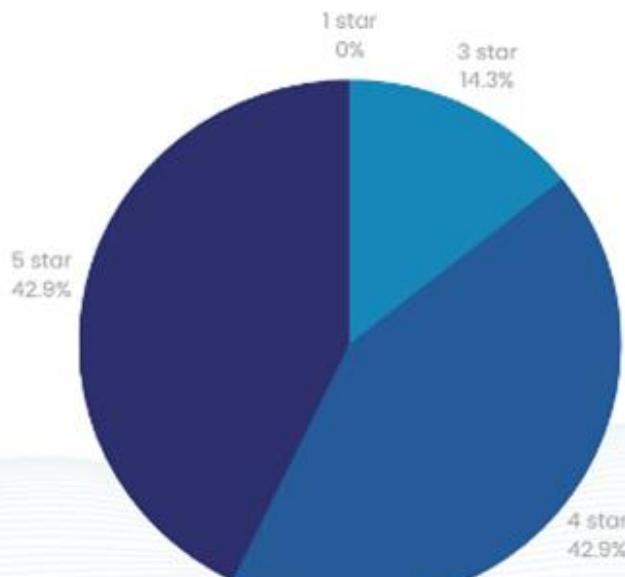
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Testers that have been requested to complete feedback:

Name:	Type of Audience: (Technical/Non-technical)	Have they replied/not replied?	Date of when the form was sent out:
Callum	Technical audience	They have replied.	19/04/2023
Roddick	Technical audience	They have replied.	19/04/2023
Taylor	Technical audience	They have replied.	19/04/2023
Jake	Technical audience	They have not replied.	19/04/2023
Alex	Technical audience	They have not replied.	19/04/2023
Taya	Non-technical audience	They have replied.	19/04/2023
Raya	Non-technical audience	They have replied.	19/04/2023
<u>Kintija</u>	Non-technical audience	They have replied.	19/04/2023
Pippa	Non-technical audience	They have replied.	19/04/2023

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Advice Page Ratings



Issues Occurred and Their Solutions (please note that there are filler fields to show which page is being talked about and these will be marked in a blue box and made bold):

Name:	Type of Audience:	Issue occurred/preference:	Solution to the issue:
Overall Layout	Overall Layout	Overall Layout	Overall Layout
Kintilia	Non-technical	'Health Advice Group' text on the logo can be a bit bolder	Make the text bold for the logo and increase the logo size on the navigation bar. This is done by editing the logo on the logo maker site and then adjusting height and width size.
Kintilia	Non-technical	Hard to find the accessibility panel.	Change the accessibility panel colour to make it a lot more visible such as a blue colour by editing the CSS in

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How well the digital solution meets (review marked in blue):

Functional requirements:

- The solution must have a home page. – The solution has a working home page with a new article section for the user to read.
- The solution must have an advice page. – The solution has a working advice page with a card style article layout to allow the user to view different articles.
- The solution must have an about us page. – The solution has a working about me page with an image at the side to entertain the reader and is ready for further implementation.
- The solution must have a risk assessment page. – The solution has a working risk assessment page that allows for error checking such as the user being unable to book 2 weeks since their last appointment, the user is unable to book the same appointment time and the login details must be valid. This is saved into the SQL database if the details are correct.
- The solution must have a policy page. – The solution includes a policy page ready for further implementation.
- The solution must have a terms and conditions page. – The solution includes a terms and conditions page ready for further implementation.
- The solution must have a register page. – The solution has a working register page that has error checking and doesn't allow the user to register with empty fields, non-matching passwords, already used email, email not in the correct format, or if they haven't accepted the terms and conditions. This is saved into the SQL database if the details are correct.
- The solution must have a login page. – The solution has a working login page that allows the user to login from the details that they have registered with in the SQL database and allows for error checking if the details are invalid.
- The solution must have a profile page where the customer can set up their account or check for air quality or weather and get advice once they have logged in. – The solution has a profile page but this has now been changed that the user does not require account setup to access the weather and air quality features and can now do this straight away from the profile page.
- The solution must have a profile page for admins where their accesses are restricted and limited to their job role once they have logged in. – The solution is ready for the next implementation of admin accesses since the SQL database tables have already been created for this and so has the profile page.

Lead Examiner Commentary:

The student has expertly crafted materials and tools to elicit valuable and actionable feedback, vital for iterative development and continuous improvement.

High-Quality Feedback Materials:

What sets a proficient student apart is their ability to tailor feedback methods that cater to various groups, ensuring that the responses provided are relevant, insightful and conducive to advancing the given task. Their bespoke materials prompt reflection and feedback, inspiring reviewers to offer comprehensive and optimistic assessments.

Digital Production, Design and Development

Effective Use of Tools:

Beyond creating feedback materials, the student's adeptness in leveraging these tools stands out. Their strategic deployment of these tools has yielded rich feedback in content and scope. This is more than just a testament to their skill in crafting the feedback materials and their timing, delivery and audience selection, ensuring the feedback is relevant and timely.

Evidence-Informed Iteration:

The real strength of feedback lies in its application, and here, too, the student shines. The feedback they have gathered, owing to its high quality, consistently offers them clear paths for evidence-informed iterations. Every critique, suggestion and observation has been used to refine the project further, showcasing their commitment to continuous improvement and respect for the feedback process.

In conclusion, the student's feedback gathering and application approach is a masterclass in effective development. Their creation of top-notch feedback materials, strategic use of tools and diligent application of insights for iterative refinement exemplify distinction-level achievement in feedback-driven development.

Task 3 Part B: Evaluating Feedback to Inform Future Development

Student Evidence Review:

The effectiveness of the assets and content used, including:

Why the chosen assets and content were selected, and why other content was rejected:

I have chosen to use a variety of Bootstrap templates to get inspired and aid the creation of my website and features that would help multiple users in navigating the website such as login forms, register forms, article cards, pagination to allow users to flip through article pages, panels and more. This has helped my website look a lot more professional for various audiences and help to adhere to modern website standards today. There was not a lot of other templates out there though, templates such as the website Code Pen didn't have suitable templates and were either not tested accurately or not suitable for the audience.

I have chosen to use a wheelchair icon for the accessibility panel that would allow the users to smoothly find the accessibility panel so they can access the features that are necessary for them to provide them a better user experience. The wheelchair icon is commonly used for people with accessibility around various websites so it's very well known, and customers would easily be able to interpret it. One of the testers has also claimed this feature and icon is visible to them as a person diagnosed with autism. There were not many websites offering free icons and usually required the user to register before accessing free icons which I didn't since I found this to be a security issue. The website I have gotten this icon from was Font Awesome.

I have chosen these images from Google Images by narrowing the search down to fitness and health which allowed for various images and allowed for multiple choices, meanwhile other websites kept asking me to register which was a security issue for me. These images relate to the website by displaying a stethoscope, different health icons and more as well as many testers saying it allows for the definition and summary of the brand and what it can do for the customer. It would be a lot more time consuming to register as well so I chose an efficient option by referring to Google Images.

The API I have used is Open Weather Map since it was the most efficient and least time consuming to implement since I was able to implement both air quality and weather forecast using the same API. It allowed me to display the temperature, wind speed, humidity, air quality index and more based on the city the user has entered which allows the user to have more features to interact with.

I have created my own logo from the app logo website that allows you to easily personalise your logo and edit it to your liking and brand. I have used this website over other logo making websites because most of them asked to pay for a subscription to download the logo or were not suitable for purpose and the audience I had. This logo helped users to recognise the company and make the website look a lot more professional.

I have decided to use Stack Overflow for code snippets inspiration since it's mostly used by programmers as well as supported by Microsoft itself. This helped me find other ways of dealing with issues and to quickly solve them without any problems. I have chosen this over other options since it was very commonly used and other websites didn't have solutions I was looking for as well as not being suitable for my website.

Digital Production, Design and Development

Lead Examiner Commentary:

Content Selection and Evaluation:

The assets chosen by the student for providing weather information based on the user's location, insights on coping with extreme temperatures and risk assessments for home environments showcase a comprehensive view of what users truly need. Every asset aligns perfectly with the project's goal and is sourced from valid and reliable sources, reflecting the student commitment to delivering trusted information. Their thorough understanding of the legal and ethical considerations associated with using these assets ensures that the project remains compliant and responsible.

Prototype Performance and User Engagement:

Creating a dashboard to display pertinent information and incorporating personalised health advice tailored to the weather data underscores the student's dedication to a user-centric design. Their evaluation of how well the prototype adheres to functional and non-functional requirements, matched with KPIs and user acceptance criteria, offers a clear testament to the system's holistic excellence.

System Features & Solutions:

Live Weather Data:

By integrating efficient API calls, the student aptly addresses the core need to provide real-time weather information, such as temperatures and air quality. This seamless integration ensures that users are presented with the most up-to-date and relevant weather data.

Data Utilisation:

The system's ability to store and leverage this data to dispense personalised health advice showcases the student's advanced data management and user personalisation capabilities.

Extreme Weather Content:

Supporting digital content, especially concerning extreme weather conditions, is presented in a user-friendly way via dashboards and weather maps, catering to users' diverse needs and preferences.

Task 1b Data Dictionary:

<u>Field Name</u>	<u>Data Type</u>	<u>Data Format</u>	<u>Field Size</u>	<u>Description</u>	<u>Example</u>
article_id	Integer	x...	11	Article id	1
article_name	Medium text	-	16,777,215	Article title	How to deal with asthma
article_category	Varchar	-	255	Category of the article	Health issues
publisher_name	Varchar	-	255	Name of the person who published the article	Liz Smite
published_date	Date	YYYY-MM-DD	-	Date of when the article was published	2004-12-26
published_time	Time	HH:MM:SS	-	Time of when the article was published	04:30:00
content	Long text	-	4,294,967,295	Content of the article	Asthma can be improved by...
accessibility_id	Integer	x...	11	Accessibility preference id	2
user_ip	Varchar	-	255	IP address of the user	181.252.15.132
feature_1	Bit	x	1	True or false statement using binary to save user's accessibility panel preferences. This represents if the feature is being used or not.	1
feature_2	Bit	x	1	True or false statement using binary to save user's accessibility panel preferences. This represents if the feature is being used or not.	0
feature_3	Bit	x	1	True or false statement using binary to save user's accessibility panel preferences. This represents if	1

				the feature is being used or not.	
feature_4	Bit	x	1	True or false statement using binary to save user's accessibility panel preferences. This represents if the feature is being used or not.	0
feature_5	Bit	x	1	True or false statement using binary to save user's accessibility panel preferences. This represents if the feature is being used or not.	1
feature_6	Bit	x	1	True or false statement using binary to save user's accessibility panel preferences. This represents if the feature is being used or not.	0
login_id	Integer	x...	11	Login id	3
name	Varchar	-	255	Name of the user when they register	Liz Oak
email	Varchar@...com	255	Email of the user when they register	liz.s@gmail.com
password	Varchar	-	255	Password of the user when they register	orange123
c_password	Varchar	-	255	Confirmation password of the user when they register	orangeblue492
terms_and_conditions	Bit	x	1	True or false statement using binary to represent if the user has accepted the terms and conditions.	0
admin_account	Bit	x	1	True or false statement using binary to represent if the user is an admin.	1
admin_id	Integer	x...	11	Admin id	4

job_role	Varchar	-	255	Job role of an admin user	Risk assessment professional
view_login_records	Bit	x	1	True or false statement using binary to show if the admin has access to viewing login records or not.	0
view_customisation_records	Bit	x	1	True or false statement using binary to show if the admin has access to view customisation records or not.	1
view_risk_assessment_records	Bit	x	1	True or false statement using binary to show if the admin has access to view risk assessment appointments or not.	0
view_accessibility_preferences	Bit	x	1	True or false statement using binary to show if the admin has access to view users accessibility preferences or not.	1
edit_articles	Bit	x	1	True or false statement using binary to show if the admin has access to edit articles or not.	0
fk_login_id (admin_information)	Integer	x...	11	Foreign key for login_id which grabs the login_id from the login_information table and returns it into the admin_information table.	5
setup_id	Integer	x...	11	Setup id	6
city	Varchar	-	255	User's city. This information is gathered during	Manchester

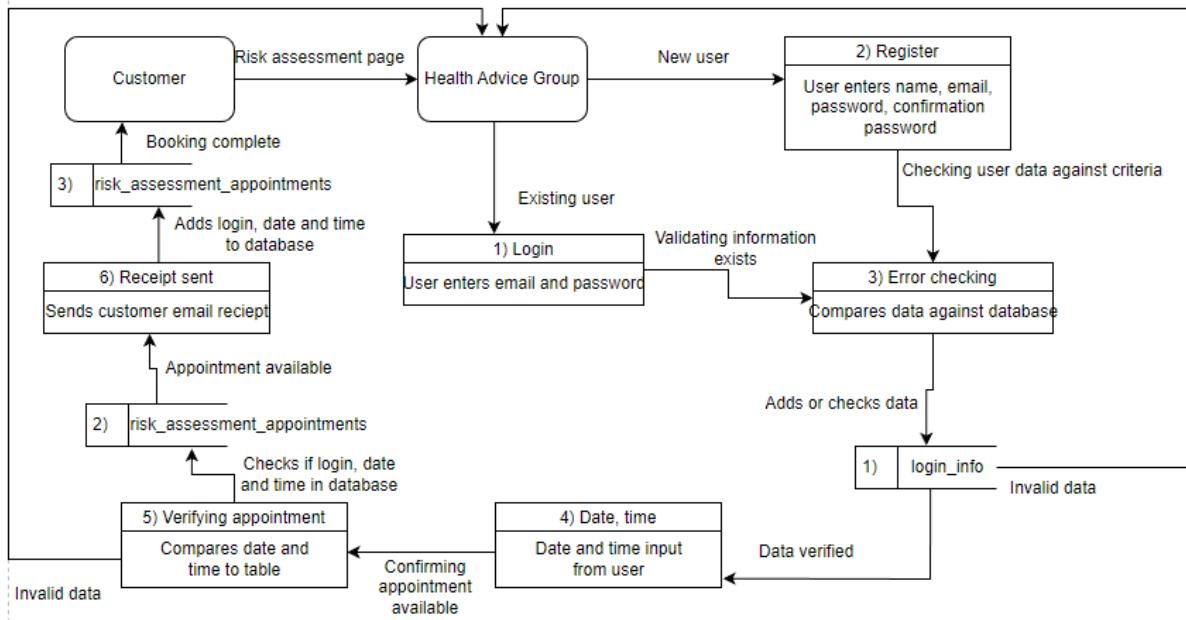
				the user setting up their account.	
health_conditions	Long text , ,	4,294,967 ,295	Any health conditions the user might have. This information is gathered during the user setting up their account.	Asthma, diabetes
email_updates	Bit	x	1	True or false statement using binary to show if the user wants email updates or not. This information is gathered during the user setting up their account.	0
fk_login_id (setup_account_info rmation)	Integer	x...	11	Foreign key for login_id which grabs the login_id from the login_information table and returns it into the setup_account_inf ormation table.	7
risk_assessment_id	Integer	x...	11	Risk assessment id	8
appointment_date	Date	YYYY- MM-DD	-	Date of the user's appointment	2006-12-29
appointment_time	Time	HH:MM:S S	-	Time of the user's appointment	12:30:00
fk_login_id (risk_assessment_ap pointments)	Integer	x...	11	Foreign key for login_id which grabs the login_id from the login_information table and returns it into the risk_assessment_a ppointments table.	9
health_diagnosis_id	Integer	x...	11	Health diagnosis id for the check symptoms feature	10
symptom_1	Varchar	-	255	User's 1 st symptom	Coughing
symptom_2	Varchar	-	255	User's 2 nd symptom. This symptom isn't required after	Lightheaded

				entering the first symptom.	
symptom_3	Varchar	-	255	User's 3 rd symptom. This symptom isn't required after entering the first symptom.	Headache
symptom_4	Varchar	-	255	User's 4 th symptom. This symptom isn't required after entering the first symptom.	Nausea
symptom_5	Varchar	-	255	User's 5 th symptom. This symptom isn't required after entering the first symptom.	Confusion
symptom_6	Varchar	-	255	User's 6 th symptom. This symptom isn't required after entering the first symptom.	Blood
symptom_7	Varchar	-	255	User's 7 th symptom. This symptom isn't required after entering the first symptom.	Runny nose
symptom_8	Varchar	-	255	User's 8 th symptom. This symptom isn't required after entering the first symptom.	Sneezing
symptom_9	Varchar	-	255	User's 9 th symptom. This symptom isn't required after entering the first symptom.	Fever
symptom_10	Varchar	-	255	User's 10 th symptom. This symptom isn't required after entering the first symptom.	Chills

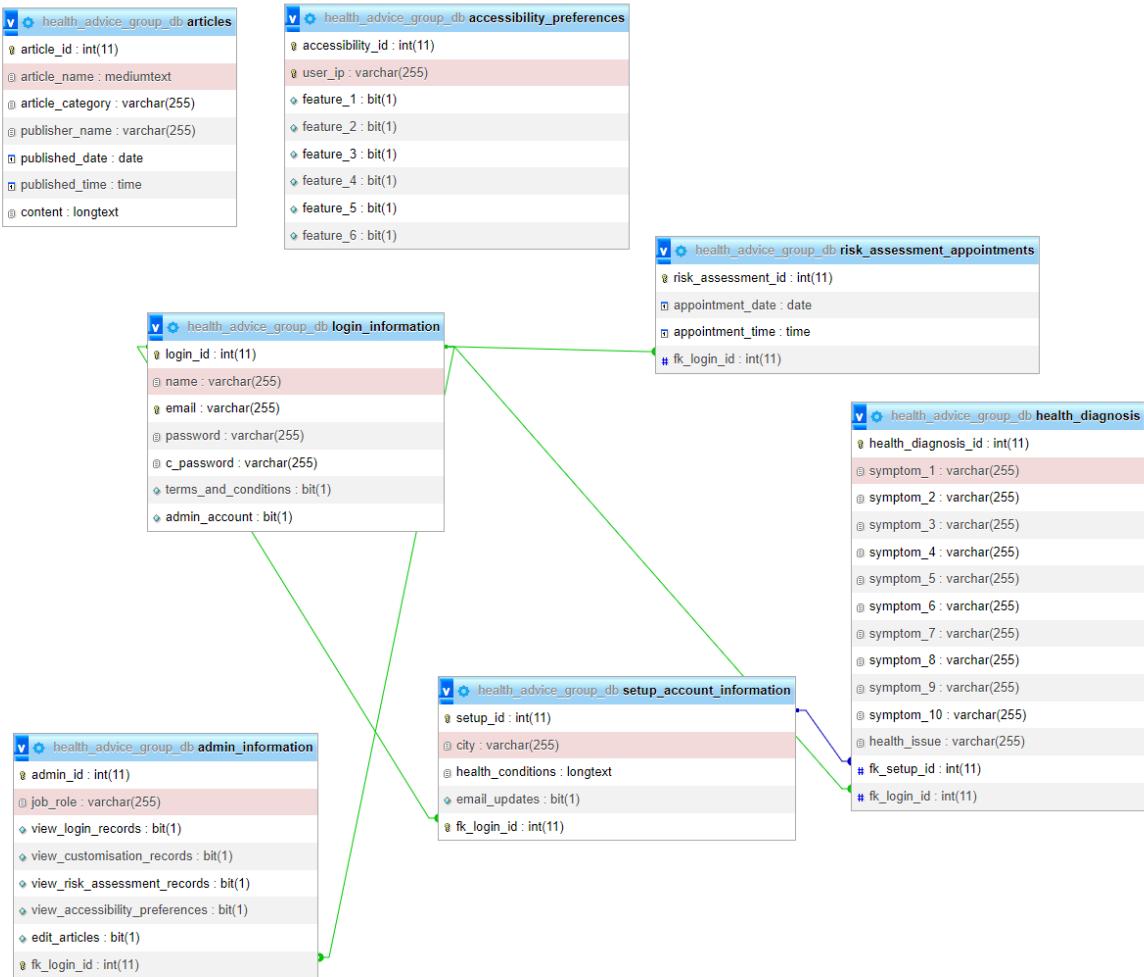
health_issue	Varchar	-	255	User's most likely health issue diagnosis based on the symptoms.	Chest infection
fk_setup_id (health_diagnosis)	Integer	x...	11	Foreign key for setup_id which grabs the setup_id from the setup_account_information table and returns it into the health_diagnosis table.	11
fk_login_id (health_diagnosis)	Integer	x...	11	Foreign key for login_id which grabs the login_id from the login_information table and returns it into the health_diagnosis table.	12

Task 1b Data Flow Diagram:

Booking a risk assessment data flow diagram



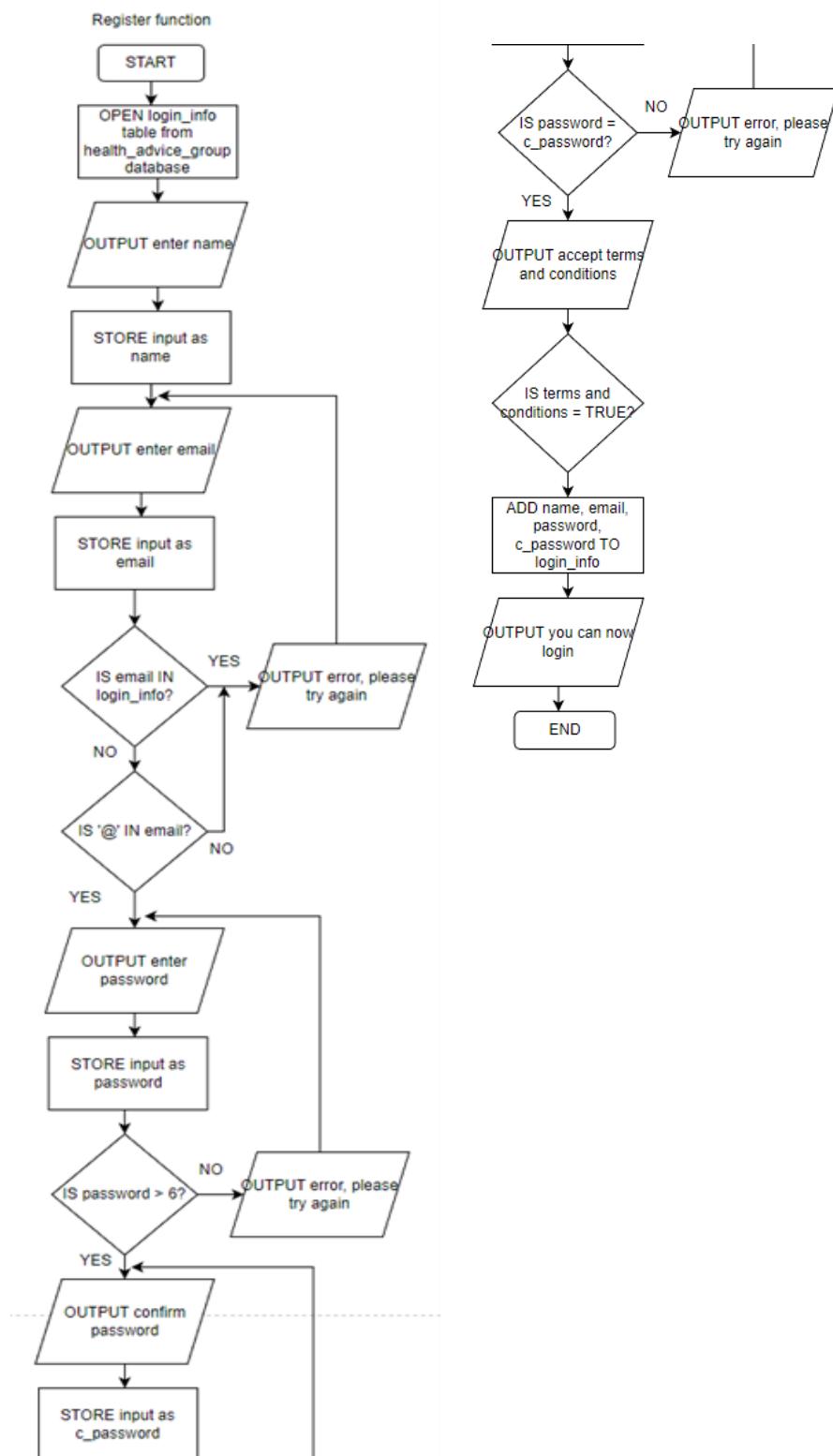
Task 1b Entity Relationship Diagram:



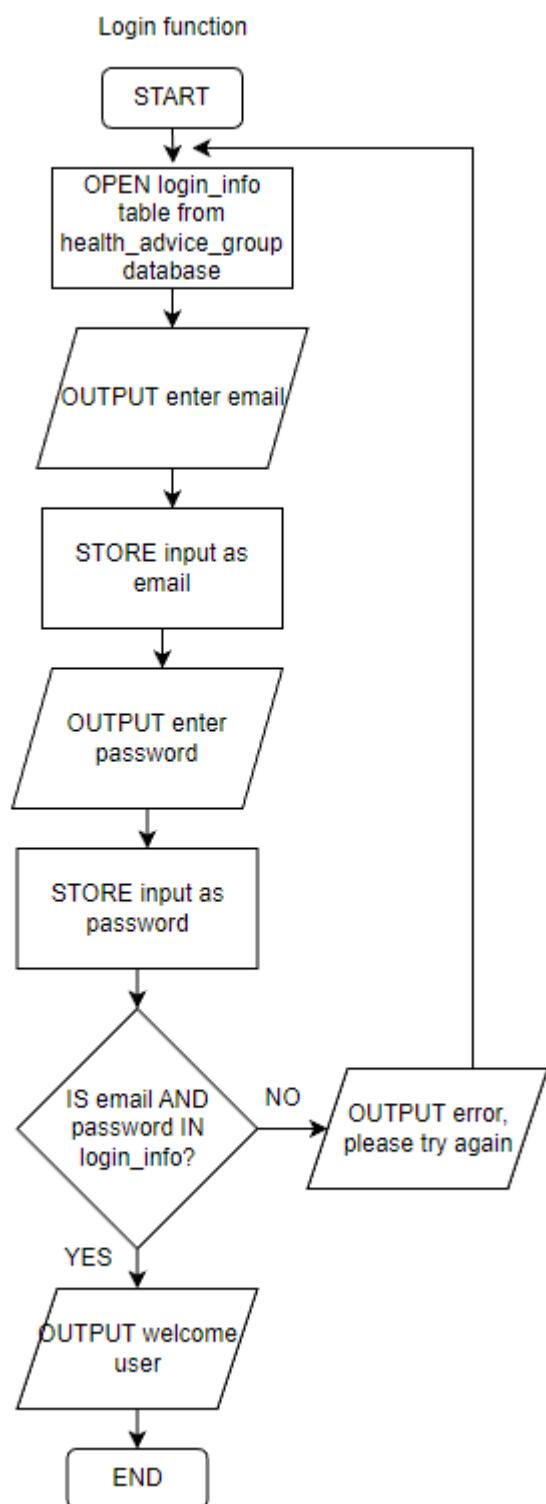
Task 1b:

Flowcharts:

Register Flowchart:

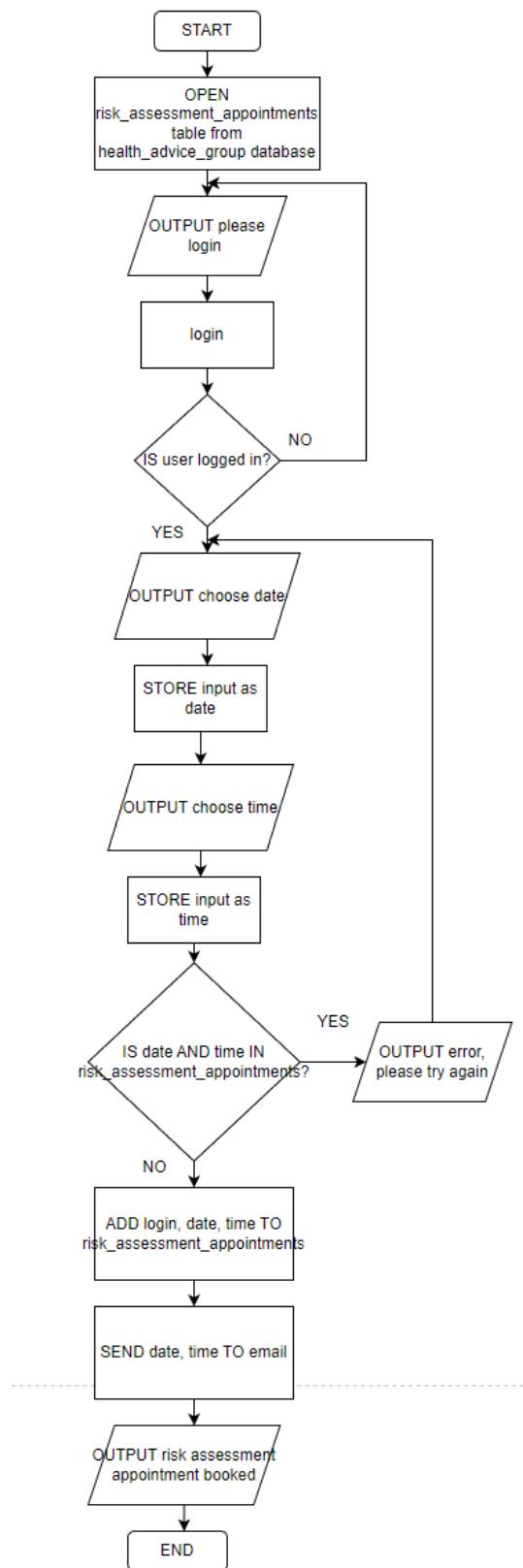


Login Flowchart:

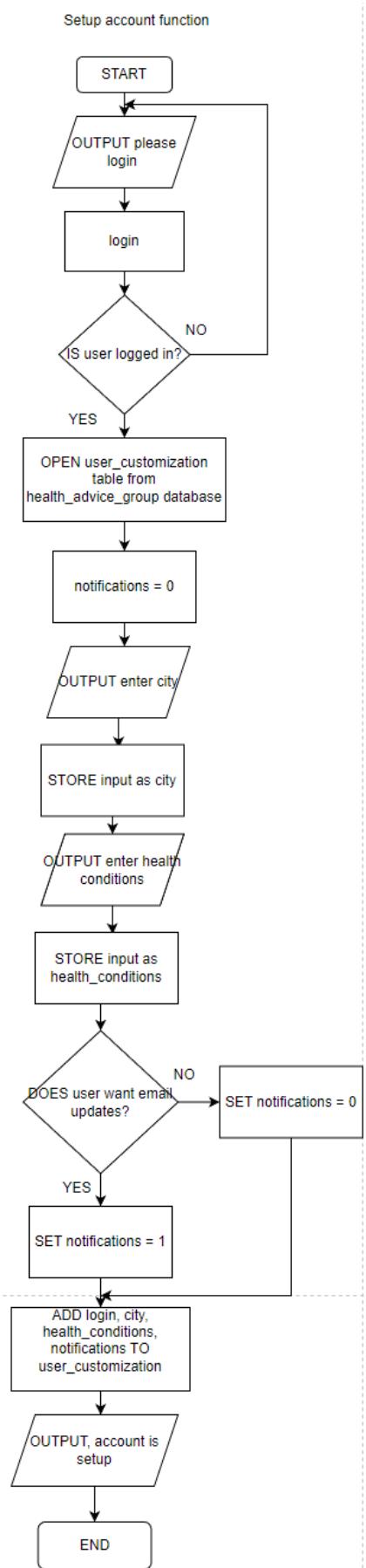


Booking a risk assessment appointment Flowchart:

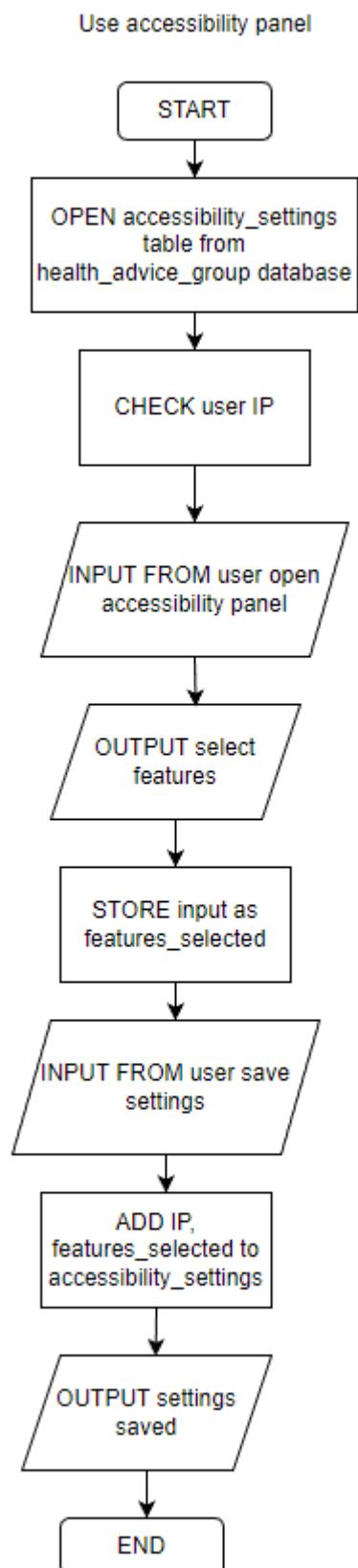
Booking a risk assessment appointment function



Setup Account Flowchart:



Use Accessibility Panel Flowchart:



Task 1: Test strategy

Date of test	Component to be tested	Type of test to be carried out	Prerequisites and dependencies
17/03/23	Home page to make sure the navigation bar, footer and information is displaying correctly and is web responsive without any problems.	Acceptance testing	Home page to be already created.
17/03/23	Advice page to make sure the navigation bar, footer and information is displaying correctly and is web responsive without any problems.	Acceptance testing	Home and advice page to be already created.
17/03/23	About us page to make sure the navigation bar, footer and information is displaying correctly and is web responsive without any problems.	Acceptance testing	Home, advice and about us page to be already created.
17/03/23	Risk assessment page to make sure the navigation bar, footer and information is displaying correctly and is web responsive without any problems.	Acceptance testing	Home, advice, about us and risk assessment page to be already created.

17/03/23	Register page to make sure the navigation bar, footer and information is displaying correctly and is web responsive without any problems.	Acceptance testing	Home, advice, about us, risk assessment, and register page to be already created.
17/03/23	Login page to make sure the navigation bar, footer and information is displaying correctly and is web responsive without any problems.	Acceptance testing	Home, advice, about us, risk assessment, register, and login page to be already created.
17/03/23	Policy page to make sure the navigation bar, footer and information is displaying correctly and is web responsive without any problems.	Acceptance testing	Home, advice, about us, risk assessment, register, login, and policy page to be already created.
17/03/23	Terms and conditions page to make sure the navigation bar, footer and information is displaying correctly and is web responsive without any problems.	Acceptance testing	Home, advice, about us, risk assessment, register, login, policy and terms and conditions page to be already created.
17/03/23	Accessibility panel to make sure the navigation bar, footer and information is displaying	Acceptance testing	Home, advice, about us, risk assessment, register, login, policy, terms and conditions and accessibility panel page

	correctly and is web responsive without any problems.		to be already created.
17/03/23	Individual article page to make sure the navigation bar, footer and information is displaying correctly and is web responsive without any problems.	Acceptance testing	Home, advice, about us, risk assessment, register, login, policy, terms and conditions and accessibility panel page to be already created.
20/03/23	Test advice page to make sure articles are fetched from the SQL database and are displayed on the advice page	Unit testing.	The website to be already created and the buttons should be linked. The SQL database needs to be already created with content that's needed in the database.
20/03/23	Test risk assessment page so it's able to save user's information and display errors accordingly, or if successful, add information to the SQL database. The user must also get an email of their receipt.	Unit testing	The website to be already created and the buttons should be linked. The SQL database needs to be already created with content that's needed in the database.
20/03/23	Test the register page to display errors if user's information doesn't meet	Unit testing	The website to be already created and the buttons should be linked. The SQL

	conditions, and save user's information into the SQL database if user information meets criteria		database needs to be already created with content that's needed in the database.
20/03/23	Test login page to display errors if user's information isn't in the SQL database and allow the user to login if it is	Unit testing	The website to be already created and the buttons should be linked. The SQL database needs to be already created with content that's needed in the database.
20/03/23	Test the accessibility panel to make sure the features are saved when user's saves features, they'd like to use and it remembers the features once the user leaves and returns. This should be saved and fetched from the SQL database.	Beta testing	The website to be already created and the buttons should be linked. The SQL database needs to be already created with content that's needed in the database.
20/03/23	Test the profile page to make sure the user can setup their account if they are a new user. This should all save into the SQL database and should not have errors.	Unit testing.	The website to be already created and the buttons should be linked. The SQL database needs to be already created with content that's needed in the database.

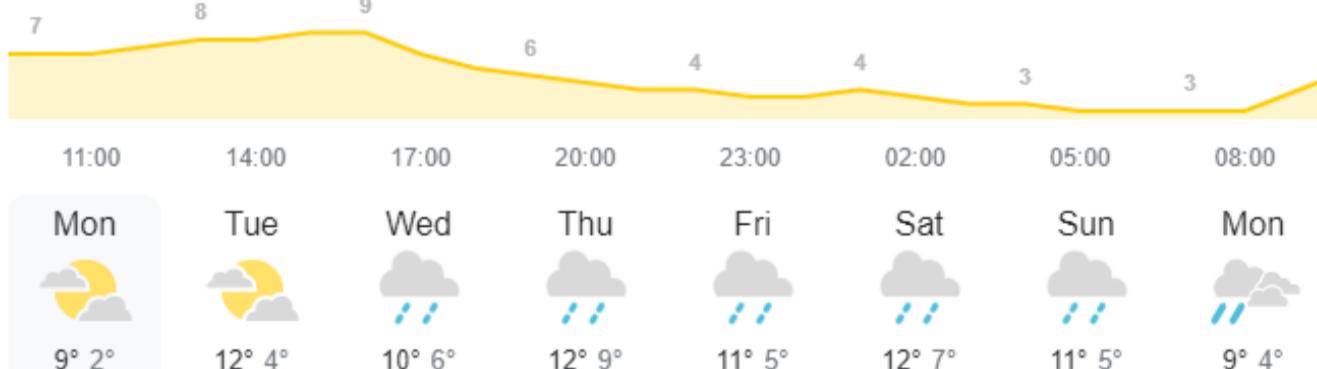
20/03/23	Test the profile page to make sure user setup data is fetched from the SQL database and is used for customisation features such as check weather, check air quality and check symptoms.	Unit testing	The website to be already created and the buttons should be linked. The SQL database needs to be already created with content that's needed in the database. The user should have already setup their account.
20/03/23	Test the profile page to make sure the user can change their settings, cancel appointments and logout.	Unit testing	The website to be already created and the buttons should be linked. The SQL database needs to be already created with content that's needed in the database. The user needs to be logged in.
22/03/23	Test the weather forecast API to make sure it can display correct weather according to the city and display the most common health conditions due to the weather/season.	Alpha testing	The website to be already created and the buttons should be linked. The cookies pop-up should be working. The SQL database needs to be already created with content that's needed in the database.
22/03/23	Test the home page to make sure new articles appear in the grid and are updated when new	Alpha testing	The website to be already created and the buttons should be linked. The SQL database needs to be

	articles are published.		already created with content that's needed in the database.
22/03/23	Test the profile page to make sure the article grid is personalised to the user and is based off user's last read articles.	Beta testing	The website to be already created and the buttons should be linked. The SQL database needs to be already created with content that's needed in the database.
22/03/23	Testing the code to make sure it's efficient and professional.	White box testing.	The whole solution and SQL database to be already completed.
22/03/23	Testing the whole solution to make sure the user can navigate across without any bugs.	Beta testing	The whole solution and SQL database to be already completed.
22/03/23	Testing the register, login, risk assessment, accessibility, profile page to make sure the user can fill out information and it's saved in the SQL database and then is fetched from the SQL database smoothly without any errors.	Beta testing	The whole solution and SQL database to be already completed.



9 °C | °F Precipitation: 10%
Humidity: 78% Wind: 7 mph

Temperature | Precipitation | Wind



Most common health issues currently:
health issues

Weather
Monday
Partly cloudy

New articles

Article 1

Article 2

Article 3

Article 4

Article 5

Register now
to get
customized
health advice,
air quality and
check your
symptoms!



Articles

[Search](#)

Article 1

Information about
publisher, published date

Brief overview

Article 1

Information about
publisher, published date

Brief overview



Article 1

Information about
publisher, published date

Brief overview

Article 1

Information about
publisher, published date

Brief overview

← → 3 4 5



About us

***Insert about
us information***



Risk Assessment Booking

Please login first to book

[Login](#)

Choose a date:

2023 FEBRUARY						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

Choose a time:

- 8:00am 10:00am
12:00pm 14:00pm
16:00pm

[Submit](#)

This booking can be cancelled at any time, but you cannot book another risk assessment appointment before 2 weeks have passed since your last risk assessment appointment.

Register

Enter name:

Enter email:

Enter password:

Confirm password:

Accept terms and conditions

Register



Already have an account? [Login here](#)

Login

Enter email:

Enter password:

[Forgot password?](#)



[Register](#)

Don't have an account? [Register here](#)

Policy

Insert policy here



Terms and conditions

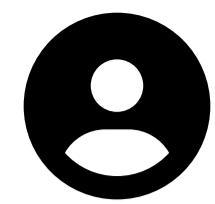
Insert terms and conditions here



Accessibility panel

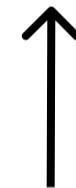
- Feature 1**
- Feature 2**
- Feature 3**
- Feature 4**
- Feature 5**
- Feature 6**

**Save**



Welcome *name*

Setup account



Setup your account to
view customizable
features!

Articles recommended for you

Article 1

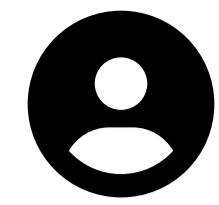
Article 2

Article 3

Article 4

Article 5



[Account settings](#)[Logout](#)

Welcome *name*

Articles recommended for you

Article 1

Article 2

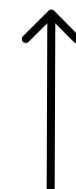
Article 3

Article 4

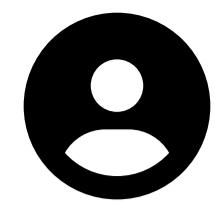
Article 5



Setup account



Setup your account to
view customizable
features!



Welcome *name*

[**Check weather**](#)[**Check air quality**](#)[**Check symptoms**](#)

Articles recommended for you

Article 1

Article 2

Article 3

Article 4

Article 5



Article name

Date: *date*

Time: *time*

Category: *category*

Publisher: *publisher*



insert article content



HEALTH ADVICE GROUP PROPOSAL



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Health Advice Group Proposal:

The business context:

The software development company you work for has secured a new contract to develop a digital solution for a charity called Health Advice Group. The charity offers information and support for environmental health issues.

Health Advice Group provides:

- Advice on how to deal with extreme weather temperatures
- Information of environmental health conditions and seasonal allergies (e.g. asthma, hay fever)
- Risk assessments for home environments

The client (the trustees of Health Advice Group) would like to develop a digital solution that provides:

- Weather forecasting to inform health decisions
- Access to a dashboard for monitoring air quality data
- Advice on how to deal with health matters affected by weather and environmental conditions.

The client has done some market research to identify features that could be included in the digital solution. The potential features suggested by the client are:

- Personalised health advice based on location
- Accessibility features to support a wide range of user needs
- A personal health tracking tool.

User stories:

Customers:

As a <role>	I want to <goal>	So that <benefit>	Acceptance Criteria
As a customer with an asthma condition	I want to view advice on asthma	So, I can improve my asthma	Go to home page Click on advice page Search or filter for article Click on article
As a new customer unsure about the safety of their home	I want to complete a risk assessment	So, I can make my house safer and more risk-free	Go to home page Click on risk assessment page Register account Login with details Enter date Enter time Submit details Check email for confirmation receipt

As a returning customer unsure about the safety of their home	I want to complete a risk assessment	So, I can make my house safer and more risk-free	Go to home page Click on risk assessment page Login with details Enter date Enter time Submit details Check email for confirmation receipt
As a returning customer unsure about the safety of their home	I want to complete another risk assessment	So, I can make sure my house is still safe and risk-free	Go to home page Click on risk assessment page Login with details Error to appear as a risk assessment can be done once every 2 weeks
As a new customer	I want to look at the about me page	So, that I can find out what this website can do	Go to home page Click on about me page
As an elderly new customer	I want to look at the policies page	So, that I understand how this website stores data and copyright laws	Go to home page Scroll down to the bottom footer Click on policy page
As a computer science student	I want to look at the terms and conditions page	So, that I understand what I consent to if I register	Go to home page Scroll down to the bottom footer Click on policy page
As a frequent customer	I want to look at the new articles	So, that I can see what articles I haven't read yet	Go to home page Scroll down to recent articles
As a new customer who wants to know more about my health	I want to register	So, that I can see details and forecasts about my health	Go to home page Click on register page Enter name, email, password and agree to terms and conditions Login
As a customer with disabilities	I want to access the accessibility panel	So, that I can improve my user experience	Go to home page Click accessibility panel Choose features and click save
As a returning customer	I want to login	So, that I can enter my symptoms	Go to home page Click login page Enter email and password Click enter symptoms
As a new customer	I want to set up my account	So, that I can get customised advice and forecasts	Go to home page Click login page

			Enter email and password Click set up button and answer questions
As a returning middle-aged customer	I want to check air quality in my area	So, that I can know if I should go on a run or not	Go to home page Click login page Enter email and password Click check air quality Get advice based on air quality
As a returning teen-customer	I want to check the weather forecasting	So, that I can know what health conditions can come about based on weather	Go to home page Click login page Enter email and password Click check weather Get advice based on weather
As a new customer	I want to accept cookies	So, that I can use the website	Go to home page Click accept cookies on popup
As a returning elderly customer	I want to reset my password because I have forgotten it	So, that I can login	Go to home page Click login page Click forgot password Enter email and click send Open email and reset password Login
As an experienced returning customer	I want to change my information	So, that I can get the most up to date information and advice based on environmental conditions	Go to home page Click login page Enter email and password Click settings Click change customised information and save
As a returning customer	I want to enter my symptoms	So, that I can get advice on my possible condition due to weather and air quality	Go to home page Click login page Enter email and password Click enter symptoms Enter symptoms details Evaluate possible conditions
As a returning customer	I want to reset my password	So, that I can login	Go to home page Click login page Enter email and password Click settings

			Click change password Enter current and new password and save
As a returning customer	I want to look at my report history	So, that I can see how my air quality has been for the past month	Go to home page Click login page Enter email and password Click settings Click report history Filter for month and air quality and save
As a returning customer	I want to delete my risk assessment booking	Because I have entered the wrong information and want to re-book with correct information	Go to home page Click login page Enter email and password Click settings Click past risk assessment bookings Click cannot attend booking Click risk assessment page Enter date Enter time Submit details Check email for confirmation receipt
As a returning customer with 2 children	I want to delete my risk assessment booking	Because I cannot attend booking since I am busy	Go to home page Click login page Enter email and password Click settings Click past risk assessment bookings Click cannot attend booking

Employee:

As a <role>	I want to <goal>	So that <benefit>	Acceptance Criteria
As a health professional worker	I want to write an article	So, that I can help more people in the current weather conditions	Go to home page Click on login page Enter admin email and password Click write article button Enter information about article and write content

As a health professional	I want to edit an article because there is a mistake on it	So, that I can change the mistake	Go to home page Click on login page Enter admin email and password Click view articles Click specific article / or filter Edit article and save
As a health professional	I want to delete an article because it's outdated	So, that I don't mislead customers with outdated information that could be dangerous	Go to home page Click on login page Enter admin email and password Click view articles Click specific article / or filter Click delete article
As a risk assessment professional	I want to see the risk assessment bookings	So, that I can perform risk assessments in time	Go to home page Click on login page Enter admin email and password Click view bookings
As a legislation professional	I want to update terms and conditions	So, they can be up to date with current values	Go to home page Click on login page Enter admin email and password Click change terms and conditions
As a legislation professional	I want to update policies	So, they can be up to date with current values	Go to home page Click on login page Enter admin email and password Click change policies
As a network manager	I want to view everyone's login details	To see how many users have signed up to the website	Go to home page Click on login page Enter admin email and password Click view user login details table
As a business analyst	I want to view how many people have used the customise option after they set up their account	So, that I can make evaluations and reports based on user activity	Go to home page Click on login page Enter admin email and password Click view user customised options table
As a health professional	I want to view what symptoms people entered the most after they set up their account	So, that I can write customised articles based on the most common health conditions	Go to home page Click on login page Enter admin email and password Click view user symptoms table

As an accessibility professional	I want to view how many people have used the accessibility panel	So, that I know whether there should be more accessibility options and how many users use accessibility panel	Go to home page Click on login page Enter admin email and password Click view user accessibility panel
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Owner:

As a <role>	I want to <goal>	So that <benefit>	Acceptance Criteria
As an owner	I want to view all the tables in the database	So, that I can manage all the tables and make sure they are all correct and don't need updating	Go to home page Click on login page Enter admin email and password Choose a table to view

Empathy map:

Customers:

- Thinks:
 - How do I book a risk assessment?
 - I hope this website is trustworthy.
 - Is this information correct, I've seen people say different about this.
 - I really want to register so I can view customised health advice.
 - Why isn't this opening up?
 - Oh no, I forgot my password.
 - I can't attend this risk assessment; I need to cancel it.
 - This sounds like an amazing charity.
 - I hope I don't have to pay for the risk assessment.
 - I need help with my asthma, I hope it has articles on this.
- Says:
 - How do I filter for an article?
 - What information does the website take from me?
 - Will I be able to cancel a risk assessment?
 - This new digital solution looks great!
 - Do you have articles for asthma?
 - How does the website check for air quality and how do I know it's accurate?
 - Do I need to pay to use this feature?
 - How do I reset my password?
 - The accessibility panel doesn't have this feature, will you be able to add it?
 - I'm struggling with signing up, can you please help?
- Does:
 - Books a risk assessment
 - Makes an account
 - Reads the terms and conditions
 - Filters for articles
 - Uses check symptoms feature
 - Checks for air quality in the area
 - Reads on asthma articles

- Accepts the cookies pop-up
- Feels:
 - Anxious
 - Relieved
 - Surprised
 - Impressed
 - Happy
 - Overwhelmed
 - Trusting

Employees:

- Thinks:
 - I hope there's enough dates for our customers to get a risk assessment.
 - Oh no, the dates are all fully booked.
 - How do I pull up the records for login data?
 - We need to update the policies because they are outdated.
 - The forecast says there will be snow next week, I need to write articles to help customers handle this weather.
 - There's a lot of users registering right now.
 - I need to edit this article; I think I made a spelling mistake.
 - How do I reset my password?
 - I need to check the most common health issue right now.
 - The accessibility panel needs a zoom in feature.
 - I hope customers find this article useful.
- Says:
 - There are so many users registering right now, please bear with us!
 - I'm sorry the risk assessments are fully booked for this week.
 - Would you like to speak to the manager about this?
 - You can reset your password on the login page by clicking forgot password.
 - You can only check air quality after you have logged in.
 - We have a lot of customisable features once you log in.
 - You can change your details in the settings once you log in.
 - The accessibility panel will save your features and remember you once you come back to the website.
- Does:
 - Writes an article.
 - Checks for most common health issues using records.
 - Updates the about me page.
 - Reads up on the next forecast.
 - Logs in with admin account.
 - Checks risk assessment bookings.
 - Updates terms and conditions page.
 - Adds more features to the accessibility panel.
 - Asks another employee on how to delete an article.
- Feels:
 - Responsible
 - Secure
 - Confident

- Valuable
- Irritated
- Tired
- Daring
- Hopeful

Owner:

- Thinks:
 - We need to update the response time for this website.
 - A social feature would be good to add next.
 - Why is there spelling mistake on this article?
 - We need more risk assessment professionals.
 - I should suggest the health professional creates an article about this.
 - This digital solution is going great, so many people are registering with us.
 - I should direct this employee to the network manager.
 - I think the policies should be updated.
 - We should optimise this feature.
 - Why is the website not loading?
- Says:
 - Can you please write an article about asthma?
 - This article isn't related to the weather forecast, can you please delete it?
 - Would you be able to add a zoom in accessibility feature?
 - Check that with the network manager.
 - I've handwritten the new policy, please can you update it now online.
 - This image needs to be changed.
 - Hello, what's the issue?
 - You can register online.
 - There are many customisable features once you register.
 - No, you can access this for free.
 - Yes, we are hiring health professionals.
 - You can check the air quality for your area.
- Does:
 - Views all tables
 - Checks how full risk assessments are, each week.
 - Suggests article ideas to health professionals.
 - Writes new terms and conditions.
 - Tasks an employee to add another accessibility feature.
 - Asks the business analyst to create a report for most common user areas to improve accuracy.
 - Resets password.
 - Hires more risk assessment professionals.
- Feels:
 - Hopeful
 - Relieved
 - Thoughtful
 - Kind
 - Optimistic
 - Confused

- Ashamed

Functional requirements:

- The solution must have a home page.
- The solution must have an advice page.
- The solution must have an about us page.
- The solution must have a risk assessment page.
- The solution must have a policy page.
- The solution must have a terms and conditions page.
- The solution must have a register page.
- The solution must have a login page.
- The solution must have a profile page where the customer can set up their account or check for air quality or weather and get advice once they have logged in.
- The solution must have a profile page for admins where their accesses are restricted and limited to their job role once they have logged in.
- The solution must have already set-up admin accounts.
- The solution must have an accessibility panel where the user can save their options and it will keep them once they leave and come back onto the website.
- The solution must save accessibility options in an SQL database.
- The solution must be able to display all articles on the advice page.
- The solution must have a set layout for every article page.
- The solution must be able to display weather forecasting and conditions based off the weather on the home page.
- The solution must be able to update the home page new articles section corresponding to the new articles.
- The solution must allow admin users to view articles, edit articles, delete articles and write articles.
- The solution must use SQL database tables for the articles.
- The solution must allow a user to book a risk assessment by logging in, entering date and time and then sending a receipt on customer's email.
- The solution must be able to produce an error after a customer tries booking a risk assessment if they had a risk assessment in the last 2 weeks.
- The solution must be able to save booked risk assessments to an SQL database.
- The solution must be able to allow a user to register using their name, email, and password and they must sign the terms and conditions.
- The solution must be able to allow a user to login, based off the saved data in the SQL database.
- The solution must save sign up information that a customer has entered to an SQL database.
- The solution must be able to save admin login information into an SQL database.
- The solution must allow the user to reset their password if they have forgotten it, and it must be able to send the reset link using the customer's email.
- The solution must allow a new customer to login and setup their account by answering questions and these questions then must be used for customised health advice.
- The solution must save the answers for the setup feature in an SQL database.

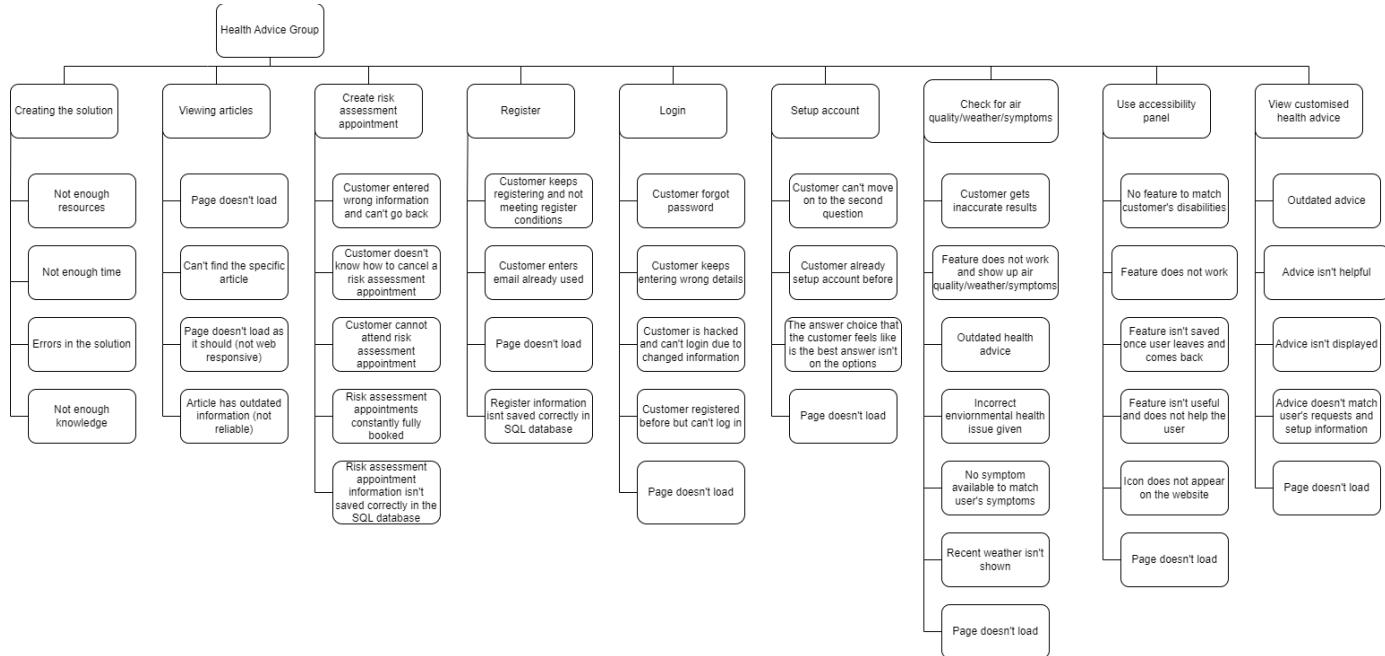
- The solution must allow the customer to be able to enter symptoms they are feeling and suggest environmental health issues based off that.
- The solution must save symptoms given into an SQL database.
- The solution must allow a logged in user to change settings such as password, email, delete account, view past bookings, view report history and to be able to filter it.
- The solution must allow a user to filter for articles and search articles up.
- After a user has cancelled their risk assessment booking, it should free up a space on the date and time feature on the risk assessment page.

Non-functional requirements:

- The navigation bar and footer should be clear and easy to read.
- Fonts that have a hard readability shouldn't be used.
- There should be an image on the home page.
- There should be an image on the about me page.
- There should be an image for every article on the advice page.
- Articles should be laid out in a card style on the advice page.
- The articles should have accurate and fact-based information.
- The risk assessment page should allow multiple users to book at once.
- The policies should be up to date.
- The terms and conditions should be up to date.
- The register page should have length checks and format checks on the email and password.
- The solution should be able to allow multiple users to register at once.
- The solution should be able to identify different users.
- The solution should be able to give accurate advice based off setup information once a user has setup their account.
- The solution should be able to accurately give a customer environmental health issue diagnosis based off of symptoms inputted.
- The solution should have security so customers can't book another risk assessment for at least 2 weeks after booking one.
- The solution should be able to give useful options in the accessibility panel and not useless options.
- The solution should be able to follow the WCAG 2.0 guideline.
- The solution should follow the GDPR guidelines.
- The solution should have quick response time and load fast.
- The solution should be secure against DDOS attacks.
- The solution should be able to be easily maintainable.
- The solution should have a responsive web design to make sure it renders smoothly on all devices.
- The solution should keep any customer information private and secure against attacks.
- The solution should have no faults or pages that don't load.
- The solution should be able to be scalable if customer amount increases.
- The solution should be supportable on different browsers.
- The whole solution should have consistent layout, clear colour theme and readable text.
- The solution should have clear headings, buttons and links that accurately tell the user what the page will consist of.
- The solution should have clear images depicting and representing Health Advice Group.

- The solution should clearly show designated errors when the user registers and doesn't meet conditions.

Hierarchy diagram:



Decomposition of the problems that will need to be solved:

Creating the solution:

- Not enough resources – Can cause delay in buying resources, delay in releasing the program
- Not enough time – Can cause releasing an unfinished solution full of bugs and errors which is not user friendly.
- Errors in the solution – Can create more errors trying to solve them and can contribute to an unfinished solution
- Not enough knowledge – Can cause delay in releasing the program, or releasing an unfinished solution

Viewing articles:

- Page doesn't load – Customer might instead go to a competitor's website, loss of customers
- Can't find the specific article – Customer might instead go to a competitor's website
- Page doesn't load as it should (not web responsive) – Customer might instead go to a competitor's website, bad review of the website
- Article has outdated information (not reliable) – Customer can be misinformed, bad review of the website

Create risk assessment appointment:

- Customer entered wrong information and can't go back – Customer might not attend the risk assessment after this, bad review of the website if they can't go back and change details
- Customer doesn't know how to cancel a risk assessment appointment – Empty booked appointment, risk assessment professional might waste time waiting for customer, customers who want an assessment cannot attend since dates are booked

- Customer cannot attend risk assessment appointment – Empty booked appointment, risk assessment professional might waste time waiting for customer, customers who want an assessment cannot attend since dates are booked
- Risk assessment appointments constantly fully booked – Disappointed customer, bad review of the website, customers going to a competitor's website instead
- Risk assessment appointment information isn't saved correctly in the SQL database – Customer's appointment information isn't saved, and risk assessment professional can't see the next appointments which means customers can show up and the risk assessment professional isn't there, bad review of the website, dissatisfied customer

Register:

- Customer keeps registering and not meeting register conditions – Annoyed customer, bad review of the website, customer can go to a competitor's website instead
- Customer enters email already used – Confused customer, customer can be worried that they might be hacked because someone has used their email which can make them leave a very bad review and/or can go to a competitor's website instead
- Page doesn't load – Customer's usually don't wait a long time for a page to load and instead go to a competitor's website instead
- Register information isn't saved correctly in SQL database – Meaning customer can't login since the information isn't saved, even if they have just registered, can cause a bad review.

Login:

- Customer forgot password – Customer might not know how to reset it, so they might go to a competitor's website instead, can leave a bad review.
- Customer keeps entering wrong details – No error messages can leave a customer annoyed and go to a competitor's website instead
- Customer is hacked and can't login due to changed information – Complaint from the customer, lawsuit because of a possible data breach, fines and more.
- Customer registered before but can't log in – Bad review from the customer, loss of customer
- Page doesn't load – Customer's usually don't wait a long time for a page to load and instead go to a competitor's website instead

Setup account:

- Customer can't move on to the second question – Annoyed customer since they might've had high hopes on checking area quality, bad review
- Customer already setup account before – Confused customer, bad review
- The answer choice that the customer feels like is the best answer, isn't on the options – Bad review from a customer
- Page doesn't load – Customer's usually don't wait a long time for a page to load and instead go to a competitor's website instead

Check for air quality/weather/symptoms:

- Customer gets inaccurate results – Customer can be misinformed and can leave a bad review
- Feature does not work and show up air quality/weather/symptoms – Disappointed customer, bad review
- Outdated health advice – This can cause dangerous advice which the customer can take and leave a bad review about

- Incorrect environmental health issue given – Misinformed customer, trying to treat a health issue they don't have, bad review
- No symptom available to match user's symptoms – Customer can go to a competitor's website instead
- Recent weather isn't shown – Annoyed customer, can go to a competitor's website instead.
- Page doesn't load – Customer's usually don't wait a long time for a page to load and instead go to a competitor's website instead

Use accessibility panel:

- No feature to match customer's disabilities – Customer cannot use the website, most likely will leave to go to a competitor's website instead
- Feature does not work – Bad review of the website, inaccessible website to some customers
- Feature isn't saved once user leaves and comes back – Annoyed customer, most likely will leave to go to a competitor's website instead
- Feature isn't useful and does not help the user – Customer cannot use the website as intended, can leave a bad review
- Icon does not appear on the website – Customer cannot look at the accessibility settings which means they cannot use them or the website
- Page doesn't load – Customer's usually don't wait a long time for a page to load and instead go to a competitor's website instead

View customised health advice:

- Outdated advice – Can be dangerous advice which can impacts customer's decisions
- Advice isn't helpful – Disappointed customer
- Advice isn't displayed – Bad review of the website
- Advice doesn't match user's requests and setup information – Bad review of the website, loss of a customer
- Page doesn't load – Customer's usually don't wait a long time for a page to load and instead go to a competitor's website instead

Key performance indicators (KPIs):

- Number of customers signed up to the website.
- Number of customers using the website per month.
- Cost to maintain the website after deployment.
- How fast risk assessment appointments are fully booked.
- How many risk assessment appointments are booked per week.
- How many people use the accessibility panel.
- How many people use customisable features (checking for air quality/weather/symptoms)
- How many inactive accounts are signed up.
- How many people view specific articles based on customisable features (checking for air quality/weather/symptoms)
- Page response time
- If any attacks on the website have occurred
- Most viewed articles within a month
- Number of risk assessment professionals employed to risk assessment appointments booked ratio
- Website abandonment rate
- Number of minutes customers spend on average, in a day, on the website

- Number of logins per day
- Number of customers setting up their account in a month
- Number of customers deleting their account
- Number of articles released per month to customer engagement ratio
- Number of people attending their risk assessment appointment bookings to risk assessment appointment bookings ratio
- Reviews on the website

User acceptance criteria:

Layout:

- The customer can click on the navigation buttons which will lead them to the page depending on the buttons they have clicked; the button will also be able to change colour indicating they are on a certain page.
- The customer can scroll down and click on any button on the footer, and this will redirect them to a specific page.
- The buttons on the navigation bar, footer and headers should remain the same for every page and not change so the customer can find what they require.
- Every page should have an accessibility logo which the user can click to go to the accessibility panel and apply features.
- The navigation bar, footer and accessibility logo will remain the same theme, same colours and same alignment on the page unless a button/link is clicked.

Home page:

- The customer can view the home page and interact with it.
- The customer must be able to view the weather forecast after accepting cookies.
- The customer can view the newest articles on the home page and click on one which will redirect them to the article.
- The weather forecast will be accurate to the user's location.
- The layout for the new articles will always remain the same, and in the same location on the home page, just the articles will be updated.
- The weather forecast layout will always remain in the same location.

Advice page:

- The customer can view the advice page and interact with it.
- The customer can see all the articles ever written for this solution and is able to filter for the articles using the search function and filter function.
- The filter function should have an icon which the user can click.
- When the filter function is used, the icon will change to a slightly different colour, representing that it has been used.
- Every article page will have the same layout with date, time, user who posted the article and suggested similar articles in the same location.
- The layout should be consistent for the advice page so the customer can predict where the next article will be placed.
- There will be buttons to go to the next page, previous page, skip or go back a few pages on the advice page.

About me page:

- The customer can view the about me page and interact with it.

- The customer can see images related to the website on the about me page.
- The about me page is up to date and accurate for the customer to read.

Risk assessment page:

- The customer can view the risk assessment page and interact with it.
- The customer is able to book a risk assessment appointment by allowing them to login, enter date and time and then submit which will send them a receipt.
- The solution will display errors and instructions if the user hasn't logged in and if a date/time is booked.
- Once a customer has booked a risk assessment appointment, it will redirect them to a page with all their information that they have used/inputted, such as time, date, email, name and it will save the information to their past bookings.
- The solution will display an error if a user tries to book another risk assessment before 2 weeks since their last appointment.
- The solution will allow the customer to delete their risk assessment appointment if they cannot attend or have entered wrong information.

Policy page:

- The customer can view the policies page and interact with it.
- The policy page will be up to date for the customers to follow.

Terms and conditions page:

- The customer can view the terms and conditions page and interact with it.
- The terms and conditions page will be up to date for the customers to follow.

Register page:

- The customer can view the register page and interact with it.
- Customers will be able to register by entering their name, email, password and accepting the terms and conditions.
- The email and password field will have conditions that customers will need to follow to sign in such as the email field needing an '@' symbol.
- It will display designated errors if the input submitted didn't meet the conditions.
- There will be a link for the user to go to if they already have an account.
- After the user has signed up, it will show a message saying that the customer can now login as well as saving the customer's information in the SQL database to login.

Login page:

- The customer can view the login page and interact with it.
- Users will have to enter their email and password to login which will be fetched from the SQL database and will show up errors if the information isn't correct.
- At the bottom of the login page, there will be a link for if the user doesn't have an account and wants to sign up.
- There will also be a link for if the user has forgotten their password and they want to reset it using their email which they will have to input and will get an email link to reset it. Then they will have to include their new password and they will have to confirm it. It will display a message saying they can now login.
- After the user has successfully logged in, they are redirected to their profile page.
- After the user logs out from their profile page, it will bring them to the home page.

- The register and login buttons will disappear once the user has logged in and instead having a person icon. This will revert back once the user has logged out.
- Admin accounts will be able to also reset their password if they have forgotten it, but they will not need to register because an account will already be given to them, as well as an email account.

Profile page:

- The customer can view the profile page and interact with it.
- At the top of the profile page, it will say welcome user with options such as customisation (check for air quality/weather/symptoms) or it will tell them to setup their account if they haven't already.
- After the customer has set up their account, it will store this information in the SQL database to personalise customisation option.
- After the customer has used a customisation feature, it will save the information in their settings such as previous air quality reports, previous weather reports, previous symptoms diagnosis.
- After the customer has used a customisation feature, it will give them health advice based on the feature such as if the air quality is bad, it's not suggested to go for a run.
- The customer will be able to go to their settings and change their information as they feel appropriate, such as an old email.
- The customer will be able to filter the reports in their settings and search for reports.
- Admin accounts will allow employees to use designated features correlating to their job role such as a risk assessment professional will only be able to view the risk assessment appointments. This helps with security and confidential information.

Accessibility page:

- The customer can view the accessibility page and interact with it.
- The customer can click on the accessibility icon, change their settings, and save them to have a better user experience.

Hardware, software, programming languages and tools to be used:

The hardware that will be used for this is a good PC with good specifications to be able to program the solution well.

The software that will be used will be:

- Bootstrap Studio – For web development and templates.
- Visual Studio Code – To program the solution.
- XAMPP – To host a local server for the solution to run on.
- Draw.io – To make flowcharts, diagrams and more for the solution.
- Excel – To create asset log for the solution.

Programming Languages:

- PHP – To make the backend of the solution
- MySQL – To make the SQL database for the system to save and retrieve information from.

Web development:

- HTML – To create pages for the solution
- CSS – To create designs and themes for the HTML pages.

Description of the proposed solution:

The solution will contain consistent layout, and be present on every page, for the navigation bar, footer, and accessibility icon. They will always be in the same place, with the same theme, same colours, and naming conventions unless they are clicked which will make them change colour. The navigation bar will be at the top while the footer will be at the bottom and the accessibility panel will be at the side.

There will be a home page button, which will contain an image, weather forecast API (will only be active after accepting cookies and a location notification on the browser), newest articles grid (updating with the newest articles, which can redirect the user to the specific article, if they click on one), and an advertisement for the customisable features available after logging in.

There will be an advice page, featuring different articles in the same layout. The user will be able to change the pages (skip a few or go back a few pages), filter for pages which will change the icon colour and search for a specific article.

There will be an about me page which will have an image and text about the charity and what they offer.

There will be a risk assessment page where the user will be able to book a risk assessment by logging in, entering a date and a time and then being redirected to a receipt page with their information and a receipt being sent out to their email. The solution will stop a user from booking another risk assessment appointment before two weeks have passed since their last risk assessment appointment. It will display errors if the user hasn't logged in and if the date or time has been booked. The solution will allow the customer to delete their risk assessment appointment if they cannot attend or have entered the wrong information.

There will be a policy page which will contain the most up to date policy.

There will be a terms and conditions page that will contain the most up to date terms and conditions.

There will be a register page which will allow customers to register by entering their name, email, password and accepting the terms and conditions which will be linked to the terms and conditions page on the register page. The email and password field will have checks in them to check if the field is in the right format and length check to check the field is an acceptable length. If the email is used or if the email and password don't meet the conditions, errors will be displayed. If the user manages to register successfully, there will be a notification to say they can now login. It will save this information in the SQL database. There will also be a link to login on the page.

There will be a login page which will allow users to login using their email and password which is fetched from the SQL database. There will be a link for a forgot password button so the user can reset their password by entering their email, clicking on the link that was sent to their email, and entering a new password. There will be a link for the register page. Admins and employees will already have accounts made for them so they can see job-role-specific features, though they can reset their password as they wish. It will display errors if the information inputted is incorrect. The register and login buttons will disappear once the user has logged in and instead having a person icon which will revert back once the user has logged out.

After a user has logged in, they are redirected to their profile page. It will either ask the user to setup their account or give customisable features (check for air quality/weather/symptoms) if they already have setup. This information is saved into the SQL database after the user has set up their account.

After a customer has used a customisable feature, the history and report will be saved in their settings so they can view previous reports, filter for specific reports and search for specific reports. After a customer has used a customisable feature, they will also get health diagnosis and advice based on the conditions. The customer can also go change their information in the settings as well see previous bookings, reports, delete account and more. Admins will be able to see reports and different features based on their role.

The accessibility panel will open up if it's clicked on, on any page which will bring them to a page where they can change the features they want to use and save, which will save based on user's IP to an SQL database.

Justification of how the recommended solution meets the needs of the client and users:

- The solution will contain consistent layout, and be present on every page, for the navigation bar, footer, and accessibility icon. They will always be in the same place, with the same theme, same colours, and naming conventions unless they are clicked which will make them change colour. The navigation bar will be at the top while the footer will be at the bottom and the accessibility panel will be at the side. – [Consistent layout will help users guess where the next information will be placed which can increase how fast they reach their destination](#). Consistent colouring will help with the user identifying the charity's website and it reassures them that they are on the same website. Consistent naming conventions is important so users can find their way round, otherwise it wouldn't be useable if the names changed every time the user clicked on a button.
- There will be a home page button, which will contain an image, weather forecast API (will only be active after accepting cookies and a location notification on the browser), newest articles grid (updating with the newest articles, which can redirect the user to the specific article, if they click on one), and an advertisement for the customisable features available after logging in. – [An image can help customers understand what the charity is about as well as entertaining the reader since it would be boring to read just a whole page of text](#). Weather forecast API will be an interactive feature which can engage the readers to think more about their health. The article grid will tell the reader immediately what the website offers since after they have looked at the weather forecast, it will make them want to read more about their health. It offers customers different options. The advertisement will persuade customers to register, since the customisable features are also free.
- There will be an advice page, featuring different articles in the same layout. The user will be able to change the pages (skip a few or go back a few pages), filter for pages which will change the icon colour and search for a specific article. – [The advice page has the same layout so customers can guess where the next article is located so it's very easy to read and organised which looks more professional](#). The filter feature, switch page feature and search feature all make the website more customisable for different audience since they offer different methods on how to find the article that the customer needs. This is very user friendly.

- There will be an about me page which will have an image and text about the charity and what they offer. – This helps the user to decide if the website is trustworthy or not and if they should user their details to sign up. It helps identify the reliability.
- There will be a risk assessment page where the user will be able to book a risk assessment by logging in, entering a date and a time and then being redirected to a receipt page with their information and a receipt being sent out to their email. The solution will stop a user from booking another risk assessment appointment before two weeks have passed since their last risk assessment appointment. It will display errors if the user hasn't logged in and if the date or time has been booked. The solution will allow the customer to delete their risk assessment appointment if they cannot attend or have entered the wrong information. – The risk assessment page is important since it's able to provide risk assessment appointments online which are easier and more accessible to book rather than face to face. The receipt is important since it tells the customer the details, they have submitted which helps them identify if they are correct and helps remind them for the appointment date and time. The solution prevents customers getting another risk assessment too early because it's a charity, and other people need risk assessments as much as they do, and it helps avoid the problem of fully booked risk assessments, as well as hiring too many professionals which can increase the costs. Errors help customers identify what's wrong with their information/application. Allowing customers to cancel appointment is important since it allows for more appointment spaces and helps not waste time with an empty booked appointment.
- There will be a policy page which will contain the most up to date policy. – This helps customers identify what the company does and copyright laws.
- There will be a terms and conditions page that will contain the most up to date terms and conditions. – This helps customers to identify how cookies are used, how their data is saved and where it is used. This can help a customer decide if they want to use the website or not.
- There will be a register page which will allow customers to register by entering their name, email, password and accepting the terms and conditions which will be linked to the terms and conditions page on the register page. The email and password field will have checks in them to check if the field is in the right format and length check to check the field is an acceptable length. If the email is used or if the email and password don't meet the conditions, errors will be displayed. If the user manages to register successfully, there will a notification to say they can now login. It will save this information in the SQL database. There will also be a link to login on the page. – The registration form doesn't have many fields to fill in because the company doesn't need too much data on the user. The email and

password conditions are important because they help identify each user from another and do not allow email duplicates which if it did, can cause glitches with logging in and more. Length check helps the customer to have a more secure password which will protect them from attacks. Errors are used to help customers know what to do next after they tried to register, and it didn't go through. Saving the information into the SQL database is important because it is used to retrieve data when logging in.

- There will be a login page which will allow users to login using their email and password which is fetched from the SQL database. There will be a link for a forgot password button so the user can reset their password by entering their email, clicking on the link that was sent to their email, and entering a new password. There will be a link for the register page. Admins and employees will already have accounts made for them so they can see job-role-specific features, though they can reset their password as they wish. It will display errors if the information inputted is incorrect. The register and login buttons will disappear once the user has logged in and instead having a person icon which will revert back once the user has logged out. – Fetching the information from the SQL database allows only registered users to login which is important. Forgot password feature is important since human error can occur, and a customer might've forgot their password or lost their password which helps avoid that. A direct link under the login page to sign up is useful since it allows quicker navigation to the sign-up page than going to the navigation bar and clicking register that way. Admins need their own accounts since their accounts will have different access to the SQL database tables. Errors will help customers determine on what to do next. The icon switch on the navigation bar will help the customer visually identify if they are logged in or not.
- After a user has logged in, they are redirected to their profile page. It will either ask the user to setup their account or give customisable features (check for air quality/weather/symptoms) if they already have setup. This information is saved into the SQL database after the user has set up their account. After a customer has used a customisable feature, the history and report will be saved in their settings so they can view previous reports, filter for specific reports and search for specific reports. After a customer has used a customisable feature, they will also get health diagnosis and advice based on the conditions. The customer can also go change their information in the settings as well see previous bookings, reports, delete account and more. Admins will be able to see reports and different features based on their role. – The setup feature will help customers customise their features and they won't have to setup their account again, after they have already completed it which helps save time. Some customers want to see their previous reports such as most common health issues after they have checked the weather forecast which helps them see all the reports in the settings, allowing for transparency. Health diagnosis helps the customer identify the potential health conditions they have and can help them recover from different symptoms. The solution is very clear with the customer since the customer can change their personal information which is very accessible to the user. It provides more usability for the user and to make them feel like it's their account that they can customise.

- The accessibility panel will open up if it's clicked on, on any page which will bring them to a page where they can change the features they want to use and save, which will save based on user's IP to an SQL database. – The accessibility panel allows catering to different audiences such as audience with disabilities, helping the website be disability-friendly and improving user experience. The features the user has selected is saved which is important since the customer doesn't have to go through the hassle of resaving their information every time they go onto the website.

Justification of how potential risks will be mitigated:

Creating the solution:

- Not enough resources – Plan how many resources the project will need.
- Not enough time – Plan and estimate the time the project will take.
- Errors in the solution – Plan for errors in the solution, hardest functions to code.
- Not enough knowledge – Plan and prepare for what knowledge might need to be used.

Viewing articles:

- Page doesn't load – Test the pages for this function and make sure there is nothing that is increasing the time of the response.
- Can't find the specific article – Add search and filter options so the customer can filter for articles.
- Page doesn't load as it should (not web responsive) – Test the page to be web responsive on all devices before deployment.
- Article has outdated information (not reliable) – Update article information every 6 months to make sure it's updated

Create risk assessment appointment:

- Customer entered wrong information and can't go back – Add a delete option to a risk assessment appointment in the profile settings
- Customer doesn't know how to cancel a risk assessment appointment – Add an information page link to the receipt once the risk assessment has been booked to tell the user that they can delete their account with a link to the settings.
- Customer cannot attend risk assessment appointment – Clearly display instruction page on the risk assessment booking page explaining to the customer that they can cancel the appointment.
- Risk assessment appointments constantly fully booked – Do not allow customers to book a risk assessment appointment before 2 weeks have passed since their last risk assessment appointment.
- Risk assessment appointment information isn't saved correctly in the SQL database – Test the database so it's able to save the information without any bugs.

Register:

- Customer keeps registering and not meeting register conditions – Display error messages after a user doesn't meet register conditions with instructions on how to pass these conditions.
- Customer enters email already used – Display messages saying the email is already used and offer for them to reset their password or login.
- Page doesn't load – Test the pages for this function and make sure there is nothing that is increasing the time of the response.

- Register information isn't saved correctly in SQL database – Test the database to make sure it saves the information correctly and that the information can be used to login.

Login:

- Customer forgot password – Display a link at the bottom saying 'forgot password' so the user can reset their password using their email.
- Customer keeps entering wrong details – Display error messages and offer the user to reset their password.
- Customer is hacked and can't login due to changed information – Allow customer to be able to email the support team from an email link in the about me page, have good security measures such as password hashing, password conditions.
- Customer registered before but can't log in – Test the page to make sure the information can be fetched from the database without any problems.
- Page doesn't load – Test the pages for this function and make sure there is nothing that is increasing the time of the response.

Setup account:

- Customer can't move on to the second question – Test the page to make sure there are no errors, and it can move onto the next page without any problems.
- Customer already setup account before – Test the database to make sure setup information is saved correctly and doesn't ask the customer to setup the account again.
- The answer choice that the customer feels like is the best answer, isn't on the options – Perform an acceptance test for the setup questions to make sure there is suitable answers for the customer so they can get the most customised features suited for them.
- Page doesn't load – Test the pages for this function and make sure there is nothing that is increasing the time of the response.

Check for air quality/weather/symptoms:

- Customer gets inaccurate results – Test to make sure there is a lot of outcomes and detailed results from the customised features.
- Feature does not work and show up air quality/weather/symptoms – Test to make sure the feature works well on different platforms and in general.
- Outdated health advice – Health advice will need to be updated regularly to support customers
- Incorrect environmental health issue given – Test the system to make sure the system makes a precise assumption on the health issue, add warnings noting this is not a professional doctor's diagnosis but rather an estimate.
- No symptom available to match user's symptoms – Add many symptoms so customer's have more choice on what to choose from
- Recent weather isn't shown – Test the weather feature to make sure it uses the customer's location.
- Page doesn't load – Test the pages for this function and make sure there is nothing that is increasing the time of the response.

Use accessibility panel:

- No feature to match customer's disabilities – Perform an acceptance test for the accessibility panel so it can be outlined on what features might need to be added, and what features might not be as useful.

- Feature does not work – Test the customisation feature thoroughly with different audiences
- Feature isn't saved once user leaves and comes back – Test to make sure the feature is saved based on the user's browser/IP
- Feature isn't useful and does not help the user – Acceptance test the accessibility feature
- Icon does not appear on the website – Test this to make sure all images are rendering correctly
- Page doesn't load – Test the pages for this function and make sure there is nothing that is increasing the time of the response.

View customised health advice:

- Outdated advice – Update the health advice regularly
- Advice isn't helpful – Acceptance test the advice to make sure it's helpful
- Advice isn't displayed – Test to make sure there is health advice given after a customized feature is used
- Advice doesn't match user's requests and setup information – Test the database with the health advice given to make sure it's health advice based off the database in which the user entered their information in.
- Page doesn't load – Test the pages for this function and make sure there is nothing that is increasing the time of the response.

Justification of how relevant regulatory guidelines and legal requirements will be addressed:

The relevant regulatory guidelines will be met by incorporating an accessibility panel to follow the WCAG 2.1 guidelines which provide accessibility and usability for people on different devices, and people with different disabilities. Users will be able to select accessibility features, and it will be saved using their IP in the database. GDPR guidelines will be followed by prompting the user to accept or deny cookies and having a terms and conditions page which will explain to users and customers how the charity uses data to enhance the user's experience. When customer's try to sign up for the website, they will have to accept the terms and conditions before they can sign up.

Appendix (Activity Ai):

How hardware and software are used within the context of the industry:

The hardware that would be needed would be a good PC with fast components to be able to code the solution efficiently. The software that would need to be used would be Bootstrap Studio for web development, draw.io for diagrams and research and Visual Studio Code to code the solution. Based on Healthtian, the hardware that is used in healthcare would be interactive kiosks that enhances privacy and allows customers to register, 3D printing to print tissues and organoids in medical research and robot-assisted surgery to help with precision and control. The software that are used in healthcare, based on Objectivity, are electronic health records for patient data collection, patient portals so customers can access their data stored in the electronic health record and medical image analysis to help radiologists working with data.

Sources:

- [5 Technologies Being Used in the Healthcare Industry \(healthtian.com\)](#)
- [The Top 10 Types of Healthcare Software | Objectivity Blog](#)

Newly emerging technologies:

AI-infused healthcare technology which can help reduce costs of recruiting competent medical specialists and hospital staff, remote patient monitoring allowing hands-free communication, nanomedicine for more accurate diagnoses, drug delivery and recognising damaged tissues and organs and implants that will help monitor health conditions and restore certain functions in patients with different types of paralysis or blindness. Furthermore, new emerging devices are wearable fitness trackers which can track physical activity and heart rate, wearable blood pressure monitors, and biosensors which would be a self-adhesive patch that allows users to move around while collecting data such as respiratory rate and temperature.

Sources:

- [10 Healthcare Technology Trends in 2023 | StarTechUP](#)
- [Wearable Tech in Healthcare: Smart Medical Devices & Trends in 2023 \(insiderintelligence.com\)](#)

How digital solutions could be used to meet different needs:

Digital solutions such as NHS meet different user needs by clearly having a navigation bar that helps the user to be able to choose where they want to go. It has a page with a list of a-z health conditions which the user can easily find and allows for smooth navigation. At the bottom of the page, it includes links to other important pages and policies so the user can read about how they use data which is very important due to GDPR and other data laws. They also have an accessibility page which provides a statement for people with accessibilities meeting different user's needs. NHS better health asks the user if they can use cookies which is very important in data security and being transparent with the customer. On the Health website's home page, you're able to see featured content which allows you to also view all publications and advice for health. This is important because it has a consistent layout throughout the pages and allows the user to quickly find articles that they are looking for, increasing speed, and saving time. Very meets different users needs by having a very modern website layout which makes it easier and more pleasant to view. They have a navigation bar consisting of icons with text underneath that can help people with disabilities meet their needs. It follows the same colour theme and layout throughout the website which makes it consistent and predictable between pages. It offers different apps to what the customer needs with having links to download the apps.

Sources:

- [Health A to Z - NHS \(www.nhs.uk\)](http://www.nhs.uk)
- [Better Health - NHS \(www.nhs.uk\)](http://www.nhs.uk)
- [Home | The Health Foundation](http://www.health.org.uk)
- [Journal articles - The Health Foundation](http://www.health.org.uk)
- [Health Related Articles. Interesting Articles about Health \(verb.com\)](http://www.verb.com)
- [Activity Apps: Weight Loss Running, Walking and Fitness by Verb](http://www.verb.com)

Screenshots:

The screenshot shows the NHS website's 'Health A to Z' section for the letter 'A'. At the top, there is a blue header bar with the NHS logo, a search bar, and a 'My account' link. Below the header, a navigation bar includes links for 'Health A-Z', 'Live Well', 'Mental health', 'Care and support', 'Pregnancy', and 'NHS services'. The main content area has a light gray background. At the top left of this area, there is a small blue box containing the letter 'A'. Below it, the heading 'Health A to Z' is displayed in a large, bold, dark font. Underneath the heading, there is a horizontal list of letters from 'A' to 'Z' in a smaller blue font. The list items are: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z. The letter 'A' is highlighted with a blue box. Below this list, there is a vertical list of medical terms starting with 'A': AAA screening, see Abdominal aortic aneurysm screening; AAA, see Abdominal aortic aneurysm; Abdominal aortic aneurysm; Abdominal aortic aneurysm screening; Abortion; Abscess; Acanthosis nigricans; Achalasia; Acid and chemical burns; Acid reflux in babies, see Reflux in babies.

The screenshot shows the NHS website's footer. It is divided into four columns. The first column contains links: Home, Health A to Z, Live Well, Mental health, Care and support, Pregnancy, NHS services, and Coronavirus (COVID-19). The second column contains links: NHS App, Find my NHS number, Your health records, About the NHS, Healthcare abroad. The third column contains links: Contact us, Other NHS websites, Profile editor login. The fourth column contains links: About us, Accessibility statement, Our policies, Cookies. At the bottom of the footer, there is a small line of text: © Crown copyright.

Cookies on the NHS website

We've put some small files called cookies on your device to make our site work.

We'd also like to use analytics cookies. These collect feedback and send information about how our site is used to services called Adobe Analytics, Qualtrics Feedback, Microsoft Clarity and Google Analytics. We use this information to improve our site.

Let us know if this is OK. We'll use a cookie to save your choice. You can [read more about our cookies](#) before you choose.

I'm OK with analytics cookies

Do not use analytics cookies

Latest publications and long reads

REPORT

Leave no one behind

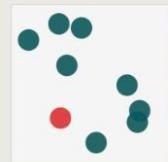
January 2023

Rooted in Scotland and informed by Scottish experts, this report brings together evidence of trends...



CHART

How does UK health spending compare across Europe over the past decade?



Icaro Rebolledo and Anita Charlesworth use five charts to compare UK health care spending with EU...

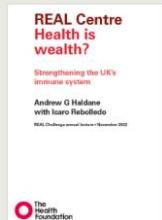
REAL Centre •

THOUGHT PAPER

Health is wealth?

November 2022

In his REAL Challenge lecture, Andrew Haldane, Chief Executive of the RSA, argues health has rarely...



REAL Centre •

DATA ANALYSIS

Why have ambulance waiting times been getting worse?

In England, people are waiting longer than ever for ambulances to arrive. Our analysis explains why...

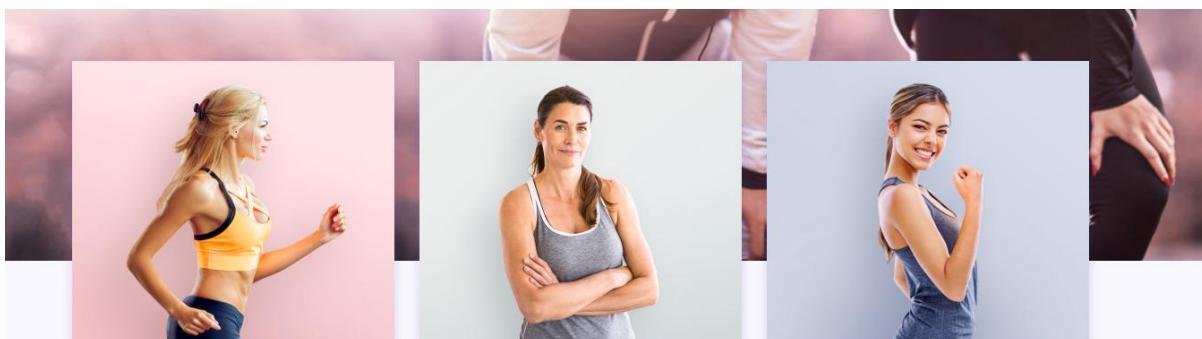


Health

Good health is a life-extending and enhancing gift. Focusing on the importance of selfcare from the spring of life is the path that leads to physical health and mental well-being.



FEATURED



Weight Loss Running

Boost your energy & weight loss

- Choose a plan that fits your goals
- Work out with your favorite coach
- Run to music in tune to your tempo
- Get a detailed meal plan every week
- Improve your performance with tips



Weight Loss Walking

Benefit health, trim waistline

- Get workouts for your fitness level
- Follow the audio coach instructions
- Walk in step with your favorite music
- Enjoy useful healthy lifestyle tips



Weight Loss Fitness

Keep your body fit & healthy

- Take your gym with you anywhere
- Get fit with a focus on trouble zones
- Have a plan that matches your goals
- Work out to the best of music
- Manage your training schedule



The industry-specific guidelines and regulations you will need to follow:

The NHS website has links at the bottom of the page for policies, accessibility statement and cookies so the user knows how they use their data. I will need to create a policy page outlining policies and important information about the website. I will need to create a cookies page to tell customers how the digital solution collects their data. I will also have to follow the web content accessibility

guidelines for people with different devices and disabilities. This will enhance the range of users that can use the website and provide better experience for people with a range of disabilities. I will have to follow GDPR and data laws to only use certain information from users and to be transparent about any data being used.

Sources:

- [Health A to Z - NHS \(www.nhs.uk\)](https://www.nhs.uk/conditions/cookies/)
- [Cookies on the NHS website - NHS \(www.nhs.uk\)](https://www.nhs.uk/conditions/cookies/)

Screenshots:

[Home](#) > [Our policies](#)

Cookies on the NHS website

What are cookies?

Cookies are files saved on your phone, tablet or computer when you visit a website.

They store information about how you use the website, such as the pages you visit.

Cookies are not viruses or computer programs. They are very small so do not take up much space.

Our policies

[Governance of the NHS website](#)

[Content policy](#)

[Linking from the NHS website](#)

[Terms and conditions](#)

[Your privacy on the NHS website](#)

[Cookies on the NHS website](#)

[Reviews policy](#)

[Requests for research support](#)

How we use cookies

We use cookies to:

- make our website work, for example by keeping it secure
- remember which pop-ups you've seen
- measure how you use our website, such as which links you click on (analytics cookies)
- help show you relevant health campaigns on social media

When you log in to the NHS website, you are logging in to [your NHS account](#). The [NHS account cookies policy](#) will apply while you are using services within your NHS account.

- ▶ [List of cookies that make our website work](#)



TASK 2 DEVELOPMENT DOCUMENTATION



Task 2 Development Documentation:

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General Information:

It may be required to zoom in on some snippets.

All the links on the navigation bar, footer and accessibility button work without any problems, though this is not showcased here.

Home Page:

The screenshot shows the home page of a medical advice website. At the top is a navigation bar with a logo for 'Health Advice Group', links for 'Home', 'Advice', 'About us', and 'Risk assessment', and buttons for 'Register' and 'Login'. To the right of the navigation bar is a large, colorful illustration depicting medical professionals (doctors and nurses) surrounded by various medical icons such as lungs, a heart, a stethoscope, a syringe, and a first aid kit. Below the illustration, the text 'New articles' is centered above a grid of six placeholder image boxes. Each box contains a small icon of a person in a landscape. Below each icon is a placeholder text label: 'Article Name 1', 'Article Name 2', 'Article Name 3' in the top row, and 'Article Name 4', 'Article Name 5', 'Article Name 6' in the bottom row. At the very bottom of the page is a teal-colored footer bar containing links for 'Home', 'About us', 'Policy', and 'Terms and conditions'.

This is the home page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The home link on the navigation bar and footer is a different colour which shows the user which page they are on. However, I have decided not to include an API on the home page since I would not have enough time and would rather implement it into the profile page. I have added a new articles section which is slightly different from the design since the new articles section on the visual design turned out to be too complicated to make so I used a simple template for this. There is also no advertisement for the registration and customisable features since I wanted to make it look cleaner and more professional. The image resizes based on the user's window size. Once a few articles have been populated, it was intended for the new articles section to update regularly with new articles as each article is published, but this feature has not been yet

implemented. I also intended to make the cards clickable which was intended to lead the user to the article layout page, but this has not been implemented yet. The images in the cards were intended to be replaced with the images of the articles after they have been uploaded.

Home Page HTML:

```

<!DOCTYPE html>
<html lang="en" style="min-height: 100vh;">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
    <meta name="description" content="Healthcare website for Jidelin">
    <meta name="author" content="Jidelin">
    <meta name="generator" content="Jidelin" href="https://jidelin.netlify.com/jidelin/generator.js" />
    <link rel="stylesheet" href="assets/css/bootstrap.min.css">
    <link rel="stylesheet" href="assets/css/cards-image.css">
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.2/dist/css/bootstrap.min.css" />
    <link rel="stylesheet" href="assets/css/navbar.css">
    <link rel="stylesheet" href="assets/css/footer.css" />
    <link rel="stylesheet" href="assets/css/masonry.css" />
    </head>
  <body class="flex-column" style="min-height: 100vh;">
    <nav class="navbar navbar-light navbar-expand-lg d-flex" style="height: 100px;">
      <div class="container">
        <a href="#" class="navbar-brand" style="font-size: 1.2em; font-weight: bold; color: #0070C0; margin-right: 10px; text-decoration: underline;">JidelinToggle navigation

```

Advice Page:

The screenshot shows a web page titled "Advice" from the "Health Advice Group". The navigation bar includes links for Home, Advice (which is highlighted in blue), About us, and Risk assessment. On the right, there are links for Register and Login, and an accessibility icon. The main content area is titled "Articles" and displays four article cards arranged in a 2x2 grid. Each card has a placeholder image of a mountain range, the title "Article 1", "Article 2", "Article 3", or "Article 4", and the text "*publisher name* *published date* *published time*". Below each card is a "Brief overview" placeholder. At the bottom left of the content area, there are navigation buttons labeled "1", "2", and "»". The footer features a teal bar with links for Home, About us, Policy, and Terms and conditions.

This is the advice page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The advice link is changed to a different colour on the navigation bar to show the user what page they are on. I have decided not to add a search bar and filter function for the articles since I realised, I wouldn't have enough time and should focus on other features instead. However, I decided to keep the 2x2 article layout the same as well as the option to change to the next page to see more articles or to skip a page. It was intended for the solution to pull the articles from the SQL database with the content, publisher name, published date and publisher time with an image and it would display it in the article fields, but this has not been yet implemented and the SQL database has not yet been populated. Once the user clicks on one of the cards, they will be redirected to the article layout page.

The screenshot shows a MySQL query results interface. The top status bar indicates: "MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)". The query entered is: "SELECT * FROM `articles`". Below the query, there are buttons for Profiling, Edit inline, Edit, Explain SQL, Create PHP code, and Refresh. A table header row is shown with columns: article_id, article_name, article_category, publisher_name, published_date, published_time, and content. A "Query results operations" button is visible, along with a "Create view" button at the bottom.

This is a snippet for what the SQL database would store if the article content has been uploaded to the SQL database.

Advice Page HTML:

```
1 <html lang="en" style="min-height: 100%;">
2   <head>
3     <meta charset="utf-8">
4     <meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
5     <title>Health Advice Group Website</title>
6     <link rel="stylesheet" href="https://unpkg.com/normalize.css@8.0.0/dist/normalize.css" type="text/css">
7     <link rel="stylesheet" href="https://unpkg.com/tailwindcss@^2/dist/tailwind.min.css" type="text/css">
8     <link rel="stylesheet" href="https://unpkg.com/flowbite@1.4.0/dist/flowbite.min.css" type="text/css">
9     <link rel="stylesheet" href="https://unpkg.com/akeneo-pim-community-theme@1.0.0/dist/akeneo-pim-community-theme.css" type="text/css">
10    <link rel="stylesheet" href="https://unpkg.com/@akeneo/pim-commerce-commerce-store@1.0.0/dist/commerce-store.css" type="text/css">
11    <link rel="stylesheet" href="https://unpkg.com/@akeneo/pim-commerce-commerce-store@1.0.0/dist/commerce-store-light.css" type="text/css">
12    <link rel="stylesheet" href="https://unpkg.com/@akeneo/pim-commerce-commerce-store@1.0.0/dist/commerce-store-dark.css" type="text/css">
13    <link rel="stylesheet" href="https://unpkg.com/@akeneo/pim-commerce-commerce-store@1.0.0/dist/commerce-store-all-inclusive.css" type="text/css">
14
15  </head>
16  <body class="flex min-h-screen" style="min-height: 100%; min-width: 100%; background-color: #f0f0f0; margin: 0; padding: 0; font-family: sans-serif; font-size: 14px; font-weight: 400; color: #333; position: relative; border: none; overflow: hidden; -webkit-overflow-scrolling: touch; height: 100%; width: 100%;">
17    <div class="flex flex-col h-full w-full" style="background-color: #f0f0f0; padding: 0; margin: 0; position: relative; width: 100%; height: 100%; ">
18      <div class="flex flex-row justify-items-between" style="height: 100%; width: 100%; align-items: center; padding: 0; margin: 0; position: relative; >
19        <div style="flex: 1; width: 100%; height: 100%; position: absolute; top: 0; left: 0; right: 0; bottom: 0; display: flex; align-items: center; justify-content: center; gap: 10px; border: 1px solid #ccc; border-radius: 10px; border-collapse: collapse; >
20          <div style="flex: 1; width: 100%; height: 100%; position: relative; >
21            <div style="position: absolute; width: 100%; height: 100%; background-color: #fff; border: 1px solid #ccc; border-radius: 10px; z-index: 1; >
22            <div style="position: absolute; width: 100%; height: 100%; background-color: #fff; border: 1px solid #ccc; border-radius: 10px; z-index: 1; >
23            <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
24              <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
25                <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
26                  <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
27                    <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
28                      <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
29                        <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
30                          <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
31                            <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
32                              <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
33                                <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
34                                  <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
35                                    <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
36                                      <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
37                                        <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
38                                          <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
39                                            <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
40                                              <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
41                                                <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
42                                                  <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
43                                                    <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
44                                                      <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
45                                                        <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
46                                                          <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
47                                                            <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
48                                                              <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
49                                                                <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
50                                                                  <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
51                                                                    <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
52                                                                      <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
53                                                                        <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
54                                                                          <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
55                                                                            <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
56                                                                              <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
57                                                                                <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
58                                                                                  <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
59                                                                                    <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
60                                                                                      <div style="display: flex; align-items: center; justify-content: center; gap: 10px; width: 100%; height: 100%; margin: 0; padding: 0; >
61                         </div>
62                       </div>
63                     </div>
64                   </div>
65                 </div>
66               </div>
67             </div>
68           </div>
69         </div>
70       </div>
71     </div>
72   </div>
73   </div>
74 </body>
```

Advice Page 2:

Health
Advice
Group

Home [Advice](#) About us Risk assessment Register Login

Articles

Article 5
publisher name *published date* *published time*

Brief overview

Article 6
publisher name *published date* *published time*

Brief overview

Article 7
publisher name *published date* *published time*

Brief overview

Article 8
publisher name *published date* *published time*

Brief overview

« 1 2

Home About us Policy Terms and conditions

This is the advice page 2 with the same layout as the first advice page, but this was made to show how the buttons at the bottom to change pages, change. Every feature from the first advice page, applies to this page just with different article names accordingly.

Advice Page 2 HTML:

```
        <div>
            <div>
                <div>
                    <div><img alt="Google logo" style="width: 100px;"></div>
                    <div>
                        <div><img alt="Search icon" style="width: 10px; height: 10px;"></div>
                        <div><img alt="Search icon" style="width: 10px; height: 10px;"></div>
                    </div>
                    <div><img alt="Search icon" style="width: 10px; height: 10px;"></div>
                </div>
                <div><img alt="Search icon" style="width: 10px; height: 10px;"></div>
            </div>
        </div>
    </div>

```

About Us Page:

The screenshot displays the 'About us' page of a website. At the top left is the logo 'Health Advice Group' with a heart icon. The top navigation bar includes links for 'Home', 'Advice', 'About us', and 'Risk assessment'. On the right side of the header are 'Register' and 'Login' buttons, along with a wheelchair accessibility icon. The main content area features a large, partially visible image of the Earth, showing continents and oceans, resting on a dark blue surface. To the right of the image, the heading '**About us**' is displayed in bold, with the note '*Insert about us information*' below it. A small portion of the footer is visible at the bottom, containing links for 'Home', 'About us', 'Policy', and 'Terms and conditions'.

This is the about us snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The image resizes based on the user's window size and always stays at the left side and 50% of the screen size. The about us link on the navigation bar and footer is changed to a different colour to show the user what page they are on. The about us information would be inserted to the right of the image. This page has been fully inspired from the visual designs with no changes made.

About Us Page HTML:

```
1 <!DOCTYPE html>
2 <html lang="en" style="min-height: 100vh;">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=no">
6     <title>Health Advice Group Website</title>
7     <link rel="stylesheet" href="https://unpkg.com/tailwindcss@^1.0/dist/tailwind.min.css">
8     <link rel="stylesheet" href="https://unpkg.com/uno.css@^1.0.0/dist/uno.min.css">
9     <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-theme.css">
10    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-gallerie/galleriepicker/galleriepicker.css">
11    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
12    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
13    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
14    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
15    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
16    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
17    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
18    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
19    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
20    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
21    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
22    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
23    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
24    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
25    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
26    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
27    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
28    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
29    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
30    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
31    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
32    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
33    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
34    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
35    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
36    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
37    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
38    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
39    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
40    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
41    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
42    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
43    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
44    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
45    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
46    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
47    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
48    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
49    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
50    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
51    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
52    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-panel/lara-panel.css">
53    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-table/lara-table.css">
54    <link rel="stylesheet" href="https://unpkg.com/primeNG@^8.0.0/themes/lara/theme/primeNG/lara-tree/lara-tree.css">
55    </head>
```

Risk Assessment Page:

 **Health
Advice
Group**

[Home](#) [Advice](#) [About us](#) [Risk assessment](#) [Register](#) [Login](#)

♿

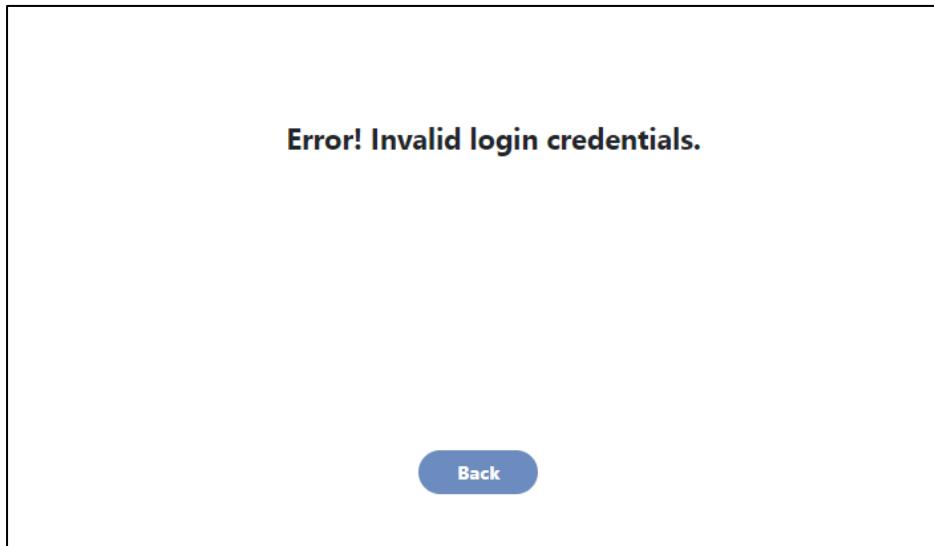
Risk Assessment Booking

Please enter your login details along with the date and time of the booking

This booking can be cancelled at any time, but you cannot book another risk assessment appointment before 2 weeks have passed since your last risk assessment appointment.

[Home](#) [About us](#) [Policy](#) [Terms and conditions](#)

This is the risk assessment page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The risk assessment link on the navigation bar has been changed to a different colour to show the user what page they are on. I decided to just include the email and password inputs instead of redirecting them to the login page and checking if the user has been logged in since this would have been very complicated having to create more pages than needed. The input fields have rather been put in the middle so it's easier to see and understand the next step rather than vertically as shown in the visual design. The user has to press the date or time field and a little menu will popup so the user can choose a certain date or time rather than just showing the month or having times available displayed as shown in the visual design. If the user has entered the correct login credentials and qualify for a risk assessment booking, this information will be added into the SQL database with a foreign key linked to the login id of the user that has booked a risk assessment appointment. If the user doesn't enter correct login credentials, tries to book an appointment within 2 weeks of their previous appointment or tries to book an appointment at a taken time, they will get a corresponding error and it will not update the SQL database. I have also included the warning telling the user that they cannot book an appointment before 2 weeks have passed since their last risk assessment appointment.



This is a snippet to show what happens if you enter a valid date and time but your login credentials are incorrect while booking a risk assessment appointment. The SQL database will not be updated due to this.

Error! You can only book an appointment every 2 weeks.

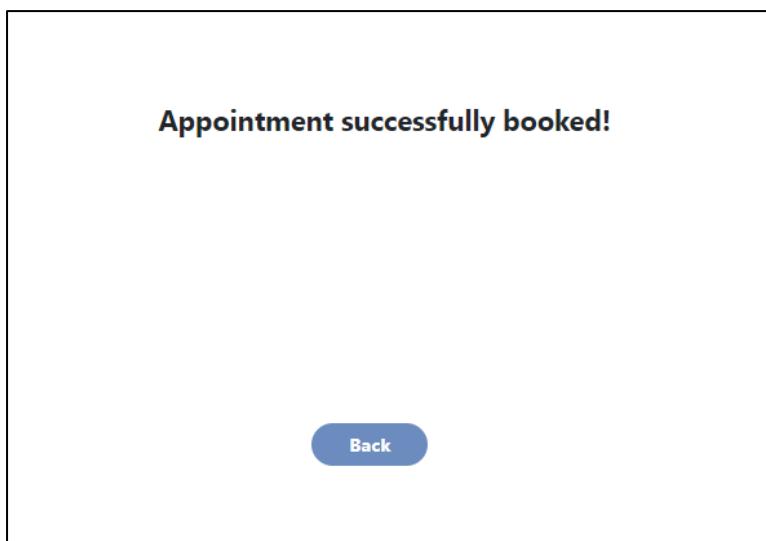
Back

This is a snippet to show what happens if you enter a valid date, time and login credentials but you have booked an appointment in the past 2 weeks while booking a risk assessment appointment. The SQL database will not be updated due to this.

Error! Appointment time is already taken.

Back

This is a snippet to show what happens if you enter a valid date, time, login credentials but the time is already taken while booking a risk assessment appointment. The SQL database will not be updated due to this.



This is a snippet to show what happens if valid date, time, login credentials are entered, and the time booked is free while booking a risk assessment appointment. The details will be added into the SQL database which is shown below.

Showing rows 0 - 1 (2 total, Query took 0.0002 seconds.)

SELECT * FROM `risk_assessment_appointments`			
	Profile [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]	Show all	Number of rows: 25 Filter rows: Search this table Sort by key: None
<input type="checkbox"/>	<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	2023-03-29 12:40:00 8
<input type="checkbox"/> Check all	<input type="checkbox"/> Copy <input type="checkbox"/> Delete		

Risk Assessment Page HTML:

```

<div><!-- Main container -->
<div><!-- Header -->
<div><!-- Nav Bar -->
<div><!-- Body -->
<div><!-- Footer -->
</div>

```

Extensive HTML code follows, detailing the structure of the Risk Assessment page, including form fields for login details, appointment booking, and footer links.

Risk Assessment Page PHP:

```
1 <?php
2     // Load config
3     require('config.php');
4
5     // Set up session
6     session_start();
7
8     // Check if user is logged in
9     if (!isset($_SESSION['user'])) {
10         header("Location: login.php");
11         exit;
12     }
13
14     // Get user info
15     $user = $_SESSION['user'];
16
17     // Set up appointment details
18     $appointment_date = $_POST['date'];
19     $appointment_time = $_POST['time'];
20     $location_id = $_POST['location'];
21
22     // Connect to database
23     $conn = new mysqli($host, $username, $password, $database);
24
25     // Check connection
26     if ($conn->connect_error) {
27         die("Connection failed: " . $conn->connect_error);
28     }
29
30     // Escape input
31     $appointment_date = mysqli_real_escape_string($conn, $appointment_date);
32     $appointment_time = mysqli_real_escape_string($conn, $appointment_time);
33     $location_id = mysqli_real_escape_string($conn, $location_id);
34
35     // Insert appointment into database
36     $sql = "INSERT INTO appointments (user_id, location_id, date, time) VALUES (?, ?, ?, ?)";
37     $stmt = $conn->prepare($sql);
38     $stmt->bind_param("iiii", $user, $location_id, $appointment_date, $appointment_time);
39     $stmt->execute();
40
41     // Close connection
42     $stmt->close();
43     $conn->close();
44
45     // Redirect to success page
46     header("Location: success.php");
47     exit;
48
49     // Display success message
50     echo "Appointment successfully booked!";
51
52     // Display appointment details
53     echo "Your appointment is scheduled for " . $appointment_date . " at " . $appointment_time . " at location " . $location_id;
54
55     // Display appointment ID
56     echo "Appointment ID: " . $conn->insert_id;
57
58     // Close connection
59     $conn->close();
60
61     // Display footer
62     include('footer.php');
63
64     // End script
65     </?php
```

Register Page:

The screenshot shows the 'Register' page. At the top left is the logo 'Health Advice Group'. The navigation bar includes links for Home, Advice, About us, Risk assessment, Register (which is blue), and Login. A wheelchair accessibility icon is in the top right. The main content area has a title 'Register' and a form with four input fields: Name, Email, Password, and Confirm password. Below these is a checkbox for 'Accept terms and conditions' and a blue 'Register' button. At the bottom of the form is a link 'Already have an account? Login here'.



This is the register page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The register link on the navigation bar has been changed to a different colour to show the user what page they are on. I followed a similar layout to the design for this with the same fields such as name, email, password, confirmation password and a checkbox to accept the terms and conditions. I have also added a link to quickly navigate the user to the login page if they accidentally clicked the register page instead. However, I have put these input fields into a form and have centered them better to make the website look more professional and modern. If the user has entered their details accordingly (email in the correct format, all fields filled, email to not be already registered, and matching passwords), the solution will display a successful message telling the user that they can now login and the solution then adds the information to the SQL database. If the user has not filled all the fields, doesn't have matching passwords, email has been already registered with or the email isn't in the correct format, the user will get corresponding errors and the SQL database won't be updated.

Error! Email not available

[Back](#)

[Login](#)

This is a snippet to show what happens if the user tries to register with an email that is already in the database while registering for an account. The back button takes the user back to the register page and the login button takes the user to the login page.

Error! Passwords do not match

[Back](#)

[Login](#)

This is a snippet to show what happens if the user tries to register but the passwords weren't matching while registering for an account. The back button takes the user back to the register page and the login button takes the user to the login page.

Success! Your account is now created and you can login.

[Back](#)

[Login](#)

Showing rows 0 - 1 (2 total, Query took 0.0003 seconds.)

```
SELECT * FROM `login_information`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

		login_id	name	email	password	c_password	terms_and_conditions	admin_account
<input type="checkbox"/>	Edit Copy Delete	7	testname	test@gmail.com	test123	test123	1	0
<input type="checkbox"/>	Edit Copy Delete	8	Orange	orange@gmail.com	orange321	orange321	1	0

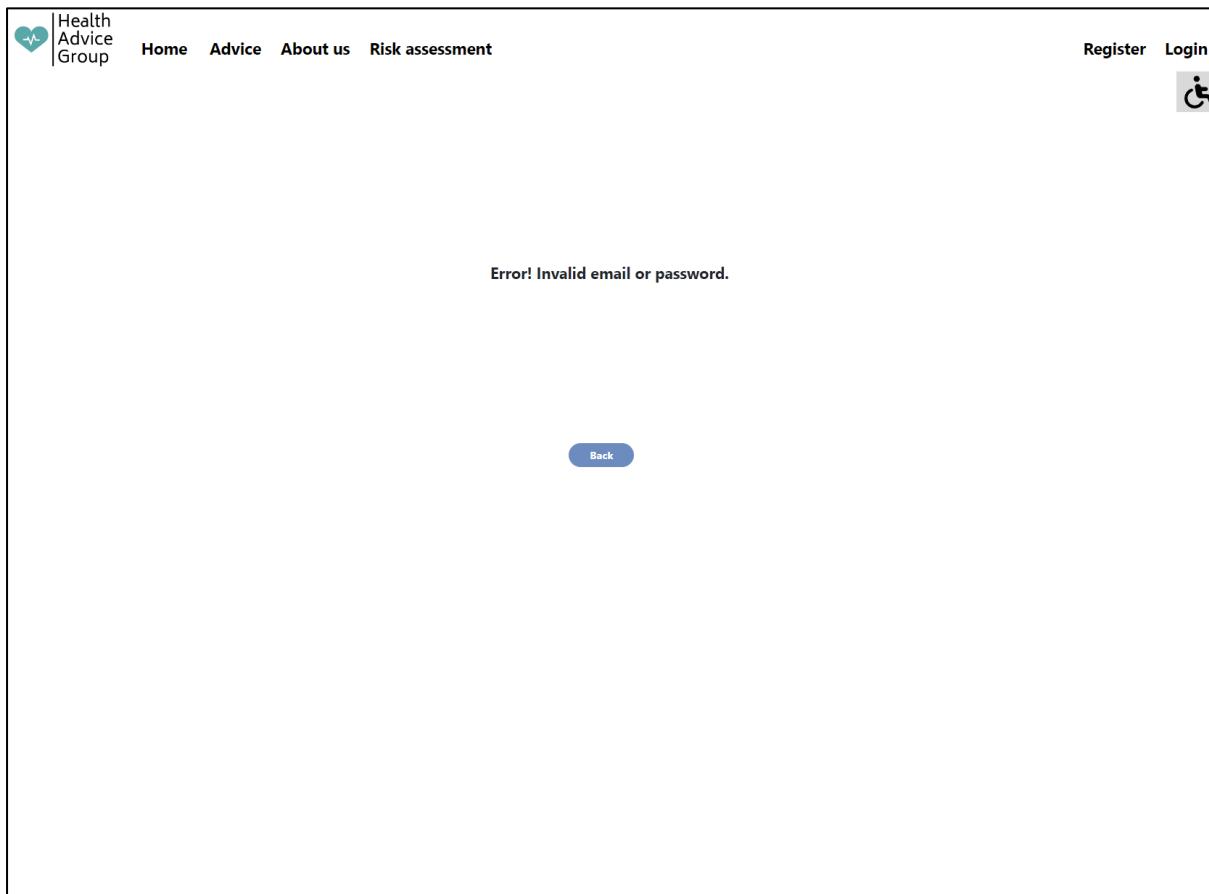
This is a snippet from the login_information table which shows what information is collected from the user once they decide to register with valid information.

Login Page:

The screenshot shows a web page layout for a login page. At the top left is a logo for 'Health Advice Group' featuring a heart icon. To its right is a navigation bar with links: Home, Advice, About us, Risk assessment, Register (in blue), and Login (underlined). On the far right is an accessibility icon. The main content area is titled 'Login' and contains a form with fields for Email and Password, and a 'Login' button. Below the form are links for 'Forgot password?' and 'Don't have an account? Register here'. At the bottom of the page is a teal-colored footer bar with links for Home, About us, Policy, and Terms and conditions.

This is the login page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The login link on the navigation bar has been changed to a different colour to show the user what page they are on. This page is similar to the visual design except I chose to place the text more vertically such as the 'forgot password' button and added a form box around the

field inputs so they can be used within the code. I have decided to add a person icon to signify to the user that they are on the login page. The user has to enter their email and password to sign in and once they press the login button, the login credentials get checked against the SQL database, and if there is a matching row, the user gets redirected to the profile page, otherwise they will get an error. The forgot password link has not yet been implemented so it does not lead the user anywhere.



This is the error that occurs if the login credentials are incorrect. The back button redirects the user back to the login page for easier access.

Profile Page:

The screenshot shows a profile page for a user named 'testname'. At the top left is the 'Health Advice Group' logo. The navigation bar includes links for 'Home', 'Advice', 'About us', and 'Risk assessment'. On the right side of the header is a blue circular profile icon. Below the header, the text 'Welcome testname' is displayed. To the right of this, there are two small icons: a person icon and a wheelchair accessibility icon. The main content area features a heading 'Articles recommended for you' above four cards, each labeled 'Article 1', 'Article 2', 'Article 3', and 'Article 4'. Each card contains a small image of a document. To the left of these cards are three blue rectangular buttons with white text: 'Check weather', 'Check air quality', and 'Check symptoms'. At the bottom of the page is a teal footer bar with links for 'Home', 'About us', 'Policy', and 'Terms and conditions'.

This is the profile page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The register and login link have been removed from the navigation bar to show that the user is logged in. If the user decides to click on the profile icon, they will get redirected to the settings page where they can logout and it will redirect them to the home page. This page is similar to the visual design since I made the solution output the user's name that has just logged in at the start of the page. This would change depending on the name that the account was registered with. I added an article section to the right of the page to encourage the user to look at the articles once the articles have been uploaded and implemented. However, I decided to remove the setup account feature since I realised it would take too much time and it would be too complicated to implement as well as the table in the database associated with it (setup account information table). I went for the easier approach of just asking the user for the city on the feature that they are currently using so they don't have to take time and setup their account before. I added buttons for the different features such as 'check weather', 'check air quality' and 'check symptoms'. Once the user clicks on one of the articles, they will be redirected to article layout page. The images in the cards in the article section were intended to be replaced with the images of the articles after they have been uploaded.

Profile Page PHP:

Profile Settings Page:

The screenshot shows a profile settings page. At the top left is a logo for "Health Advice Group" featuring a heart icon. The top navigation bar contains links for "Home", "Advice", "About us", and "Risk assessment". On the top right are icons for a user profile and accessibility. The main content area is a box titled "Settings:" containing five links labeled "Setting 1" through "Setting 5", followed by a "Logout" button. The bottom of the page has a teal footer bar with links for "Home", "About us", "Policy", and "Terms and conditions".

This is the profile settings page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The register and login link have been removed from the navigation bar to show that the user is logged in. I decided to change the settings page layout since I felt like I wouldn't have enough time to add a drop-down menu, and this seemed to look more put together. The links (setting 1, setting 2, etc.) have not been implemented yet so they do not work. However, the logout button works since it destroys all of the sessions present in the PHP files and returns the user to the home page. If the user clicks the profile icon in the top right, they will be redirected back to the profile page.

Profile Settings HTML:

```
1 <div></div>
2 <div style="border: 1px solid #ccc; padding: 10px; margin-bottom: 10px;">
3   <div>
4     <div style="display: flex; justify-content: space-between; align-items: center; font-weight: bold; margin-bottom: 10px;">
5       <span>Profile settings</span>
6       <span>Logout</span>
7     </div>
8     <div>
9       <div>
10      <div><img alt="Profile picture placeholder" style="width: 100px; height: 100px; border-radius: 50%; border: 2px solid #ccc; display: block; margin: auto;"></div>
11      <div>Edit profile picture</div>
12    </div>
13    <div>
14      <div><input type="text" value="John Doe" style="width: 100px; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;"></div>
15      <div>Edit first name</div>
16    </div>
17    <div>
18      <div><input type="text" value="Doe" style="width: 100px; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;"></div>
19      <div>Edit last name</div>
20    </div>
21    <div>
22      <div><input type="text" value="john.doe@example.com" style="width: 100px; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;"></div>
23      <div>Edit email</div>
24    </div>
25    <div>
26      <div><input type="text" value="123 Main St, Anytown, USA" style="width: 100px; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;"></div>
27      <div>Edit address</div>
28    </div>
29    <div>
30      <div><input type="text" value="123 Main St, Anytown, USA" style="width: 100px; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;"></div>
31      <div>Edit city</div>
32    </div>
33    <div>
34      <div><input type="text" value="Anytown" style="width: 100px; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;"></div>
35      <div>Edit state</div>
36    </div>
37    <div>
38      <div><input type="text" value="123 Main St, Anytown, USA" style="width: 100px; height: 30px; border: 1px solid #ccc; border-radius: 5px; padding: 5px; margin-bottom: 10px;"></div>
39      <div>Edit zip code</div>
40    </div>
41  </div>
42  <div>
43    <div style="font-size: 10px; color: #ccc; margin-bottom: 10px;">Last updated: 2023-10-10</div>
44    <div><a href="#">Edit profile picture</a> <a href="#">Edit first name</a> <a href="#">Edit last name</a> <a href="#">Edit email</a> <a href="#">Edit address</a> <a href="#">Edit city</a> <a href="#">Edit state</a> <a href="#">Edit zip code</a></div>
45  </div>
46</div>
```

Check Weather Page:


Health
Advice
Group

- [Home](#)
- [Advice](#)
- [About us](#)
- [Risk assessment](#)



You are now checking the weather!

[Back](#)



This is the check weather page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The register and login link have been removed from the navigation bar to show that the user is logged in. This page uses the '[Weather API - OpenWeatherMap](#)' API to show the user the temperature in Celsius, humidity, and windspeed as well as showing different health issues and responses due to different weather. The back button leads the user back to the profile page. The profile icon in the top right corner will lead the user to the profile page. This API will provide error messages if they cannot find weather information for a city. The user can constantly keep checking the weather for different places and this information isn't saved into the database.

You are now checking the weather!

Enter city name

Check weather

Current weather in Manchester:

Temperature: 10.37°C
Humidity: 65%
Wind speed: 6.69 m/s
The temperature is comfortable, enjoy your day!

You are now checking the weather!

Enter city name

Check weather

Current weather in Toronto:

Temperature: 1.03°C
Humidity: 82%
Wind speed: 2.24 m/s
It is very cold, dress warmly and avoid frostbite.
It is very humid, be cautious of mold and respiratory problems.
The wind is very calm, enjoy the peaceful weather!

These snippets show me checking the weather in Manchester and Toronto which shows different health issue warnings and responses.

You are now checking the weather!

Enter city name

Check weather

No weather data available for M0nche\$ter.

Back

This snippet is showing the error checking for the weather API which shows an error message if the city isn't found in the list of cities. The back button leads the user back to the profile page.

Check Weather Page PHP:

Check Air Quality Page:

You are now checking the air quality!

Enter city name

Check air quality

Back

♿

Home About us Policy Terms and conditions

This is the check air quality page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The register and login link have been removed from the navigation bar to show that the user is logged in. This page uses the '[Weather API - OpenWeatherMap](#)' API to show the user the air quality based on the user's city input as well as a response to if the user should go running or not. The back button leads the user back to the profile page. The profile icon in the top right corner will lead the user to the profile page. This API will provide error messages if they cannot find air quality information for a city. The user can constantly keep checking the air quality for different places and this information isn't saved into the database. The air quality response will also be shown in different colours to show the user how bad or good the air quality is as well as to make it more entertaining.

You are now checking the air quality!

Check air quality

The air quality in Nepal is 3 (Moderate). It's still okay to go for a run, but be cautious.

Back

You are now checking the air quality!

Check air quality

The air quality in Manchester is 2 (Fair). It should be safe to go for a run.

Back

This is a snippet of me checking the air quality in Nepal and Manchester to show the different text colours and responses.

You are now checking the air quality!

Check air quality

No data available for L0ndon

Back

This snippet shows the error checking of the air quality API that it will display an error message if the city isn't found in the list of cities. The back button will take the user back to the profile page.

Check Symptoms Page:

The screenshot shows a landing page for a service. At the top left is the logo 'Health Advice Group' with a heart icon. The top navigation bar includes links for 'Home', 'Advice', 'About us', and 'Risk assessment'. On the top right are icons for user profile and accessibility. A large teal box in the center contains the text 'Coming soon!' and a message: 'Page is still in progress and being built!'. Below this is a countdown timer showing '10 days 03 hours 26 minutes' and '00 seconds'. A small 'Back' button is at the bottom of the teal box. The footer features a teal bar with links for 'Home', 'About us', 'Policy', and 'Terms and conditions'.

[Home](#) [About us](#) [Policy](#) [Terms and conditions](#)

This is the check symptoms page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The register and login link have been removed from the navigation bar to show that the user is logged in. I have not completed this page since I had troubles with the API and noticed I wouldn't have enough time, so I decided to put a countdown timer until the page gets released. Due to this page not being finished, I have removed the health diagnosis table from the SQL database since it seemed currently unnecessary. The back button takes the user to the profile page. The profile icon in the top right takes the user to the profile page.

Accessibility Panel Page:

The screenshot shows a web page layout. At the top left is a logo for 'Health Advice Group' featuring a heart icon. The top navigation bar includes links for 'Home', 'Advice', 'About us', and 'Risk assessment'. On the right side of the top bar are 'Register' and 'Login' buttons. A large, dark grey button labeled 'Accessibility panel' is positioned in the center. To the right of this button is a small grey square containing a wheelchair accessibility icon. Below the main content area is a light blue footer bar with links for 'Home', 'About us', 'Policy', and 'Terms and conditions'.

This is the accessibility panel page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The accessibility panel button has been changed to a different colour to show the user that they are on this page. I have used a similar layout to the visual design but have added a form box around the feature options with the checkbox to make it look a lot neater and readable. Currently the save button does not lead the user anywhere so the features are currently not implemented since I needed to focus on other features. However, the checkboxes do work, and the user can select them. The accessibility panel was intended to work with the SQL database and once the user saves the features, it gets saved into the accessibility preferences table. If the user presses the accessibility panel button, the page leads the user to this page.

Accessibility panel

Please select the features you would like to use:

<input checked="" type="checkbox"/>	Feature 1
<input checked="" type="checkbox"/>	Feature 2
<input type="checkbox"/>	Feature 3
<input checked="" type="checkbox"/>	Feature 4
<input type="checkbox"/>	Feature 5
<input type="checkbox"/>	Feature 6

Save

This is a snippet of me selecting the features on the accessibility panel page.

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
SELECT * FROM `accessibility_preferences`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

accessibility_id	user_ip	feature_1	feature_2	feature_3	feature_4	feature_5	feature_6
Query results operations							
Create view							

This is a snippet of the accessibility preferences table which was planned on to be populated by the user's IP address and input, but this has not yet been implemented. It would take too much time to implement an IP address system, so I decided to only do the layout of the accessibility panel page.

which shows the user which page they are on. I copied the layout from the visual design, so nothing has really changed. Once the policy is created, it would be pasted here.

Policy Page HTML:

```

3 <!DOCTYPE HTML>
4 <html lang="en" style="min-height: 100%;"
5   >
6   <head>
7     <meta charset="utf-8">
8     <meta name="viewport" content="width=device-width, initial-scale=1.0, shrink-to-fit=0.0">
9     <title>Health Advice Group Website</title>
10    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" />
11    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/jumbotron/bootstrap-jumbotron.min.css" />
12    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/fonts/bootstrap/bootstrap.min.css" />
13    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/jumbotron/bootstrap-jumbotron.min.css" />
14    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/jumbotron/bootstrap-jumbotron.min.css" />
15    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/jumbotron/bootstrap-jumbotron.min.css" />
16    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/jumbotron/bootstrap-jumbotron.min.css" />
17    <body class="navbar-light bg-light min-vh-100">
18      <div class="container" style="background-color: #f2f2f2; padding-top: 10px; position: relative; height: 100%; ">
19        <div class="col-12" style="text-align: center; margin-bottom: 10px; border-radius: 10px; background-color: #fff; padding: 10px; position: absolute; top: 0; left: 0; right: 0; bottom: 0; z-index: 1; >
20          <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
21            <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
22              <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
23                <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
24                  <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
25                    <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
26                      <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
27                        <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
28                          <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
29                            <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
30                              <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
31                                <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
32                                  <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
33                                    <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
34                                      <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
35                                        <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
36                                          <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
37                                            <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
38                                              <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
39                                                <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
40                                                  <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
41                                                    <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
42                                                      <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
43                                                        <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
44                                                          <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
45                                                            <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
46                                                              <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
47                                                                <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
48                                                                  <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
49                                                                    <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
50                                                                      <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
51                                                                        <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
52                                                                          <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
53                                                                            <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
54                                                                              <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
55                                                                                <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
56                                                                                  <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
57                                                                                    <div class="col-12" style="text-align: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
58                                                                                      <div class="row justify-content-center" style="margin: auto; width: fit-content; padding-top: 10px; >
59                        </div>
60                      </div>
61                    </div>
62                  </div>
63                </div>
64              </div>
65            </div>
66          </div>
67        </div>
68      </div>
69      <div style="min-height: 100px;">
70        <div class="row justify-content-center align-items-center" style="height: 100%; font-weight: bold; font-size: 10px; color: #000; background: #fff; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
71          <div class="col-12" style="text-align: center; justify-content: center; align-items: center; border: 1px solid #ccc; border-radius: 10px; padding: 10px; >
72            <a href="https://www.healthadvicegroup.com/about-us.html" style="color: #000; font-size: 10px; font-weight: bold; text-decoration: none; >
73              About us</a>
74            <a href="https://www.healthadvicegroup.com/terms-and-conditions.html" style="color: #000; font-size: 10px; font-weight: bold; text-decoration: none; >
75              Terms and conditions</a>
76            <a href="https://www.healthadvicegroup.com/risk-assessment.html" style="color: #000; font-size: 10px; font-weight: bold; text-decoration: none; >
77              Risk assessment</a>
78            <a href="https://www.healthadvicegroup.com/register.html" style="color: #000; font-size: 10px; font-weight: bold; text-decoration: none; >
79              Register</a>
80            <a href="https://www.healthadvicegroup.com/login.html" style="color: #000; font-size: 10px; font-weight: bold; text-decoration: none; >
81              Login</a>
82          </div>
83        </div>
84      </div>
85    </body>
86  </html>

```

Terms and Conditions Page:

This is the terms and conditions page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. The terms and conditions link on the navigation

bar and footer is a different colour which shows the user which page they are on. I copied the layout from the visual design, so nothing has really changed. Once the terms and conditions are created, it would be pasted here.

Terms and Conditions Page HTML:

```

<!DOCTYPE html>
<html lang="en"> </html>
<head>
  <meta charset="utf-8">
  <title>Health Advice Group</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <link href="https://cdn.jsdelivr.net/npm/@headlessui/react@1.6.0/dist/index.css" rel="stylesheet">
  <link href="https://unpkg.com/@danielgitterer/date-range-picker@1.1.0/dist/date-range-picker.css" rel="stylesheet">
  <link href="https://unpkg.com/@danielgitterer/date-range-picker@1.1.0/dist/date-range-picker-daterangepicker.css" rel="stylesheet">
  <link href="https://unpkg.com/@danielgitterer/date-range-picker@1.1.0/dist/date-range-picker-daterangepicker-rtl.css" rel="stylesheet">
  </head>
<body class="flex column" style="min-height: 100vh">
  <div data-turbo="true" data-turbo-stale="30s" data-turbo-reload="1000ms" data-turbo-interceptor="https://health.advice-group.website/api/turboreload">
    <div class="container-fluid flex align-items-center justify-content-between" style="width: 100%; background-color: transparent; background-image: url('https://img.flaticon.com/previews/1024px/2516596_flaticon_digital_health_hands_touching_healthcare_desktop_laptop_tablet_and_mobile_phones_illustration_in_light_blue_tone_and_3d_stylized_hands_with_touchscreen_devices_holding_digital_globe_and_swipe_left_and_right_with_magnifying_glass_and_anatomical_stethoscope.png') no-repeat center center / cover">
      <div data-bs-target="#nav-modal" data-bs-toggle="modal" class="visually-hidden" style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, #007bff 2px, #007bff 4px); width: 1em; height: 1em; border-radius: 50%;">Toggle navigationClose</span>
      </a>
      <div data-turbo="false" style="margin-left: 0.5em; position: relative; width: fit-content; text-align: right; font-weight: bold; font-size: 1.1em; border-bottom: 2px solid #007bff; padding-bottom: 0.2em; border-radius: 0.2em; z-index: 1; white-space: nowrap; transition: color 0.1s; opacity: 1;">
        <span style="margin-right: 0.5em;">About us</span>
        <span><i>About us</i></span>
        <span style="margin-right: 0.5em;">Assessments</span>
        <span><i>Assessments</i></span>
        <span style="margin-right: 0.5em;">Book a call</span>
        <span><i>Book a call</i></span>
        <span style="margin-right: 0.5em;">Book a consultation</span>
        <span><i>Book a consultation</i></span>
        <span style="margin-right: 0.5em;">Book a session</span>
        <span><i>Book a session</i></span>
        <span style="margin-right: 0.5em;">Book a video call</span>
        <span><i>Book a video call</i></span>
        <span style="margin-right: 0.5em;">Create a free account</span>
        <span><i>Create a free account</i></span>
        <span style="margin-right: 0.5em;">Log in</span>
        <span><i>Log in</i></span>
        <span style="margin-right: 0.5em;">My account</span>
        <span><i>My account</i></span>
        <span style="margin-right: 0.5em;">Plan a visit</span>
        <span><i>Plan a visit</i></span>
        <span style="margin-right: 0.5em;">Register</span>
        <span><i>Register</i></span>
        <span style="margin-right: 0.5em;">Search</span>
        <span><i>Search</i></span>
        <span style="margin-right: 0.5em;">Search by location</span>
        <span><i>Search by location</i></span>
        <span style="margin-right: 0.5em;">Search by service</span>
        <span><i>Search by service</i></span>
        <span style="margin-right: 0.5em;">Sign up</span>
        <span><i>Sign up</i></span>
      </div>
      <div data-turbo="false" style="margin-left: 0.5em; position: relative; width: fit-content; text-align: right; font-weight: bold; font-size: 1.1em; border-bottom: 2px solid #007bff; padding-bottom: 0.2em; border-radius: 0.2em; z-index: 1; white-space: nowrap; transition: color 0.1s; opacity: 1;">
        <span style="margin-right: 0.5em;">Privacy policy</span>
        <span><i>Privacy policy</i></span>
        <span style="margin-right: 0.5em;">Terms and conditions</span>
        <span><i>Terms and conditions</i></span>
        <span style="margin-right: 0.5em;">Cookie policy</span>
        <span><i>Cookie policy</i></span>
        <span style="margin-right: 0.5em;">Disclaimer</span>
        <span><i>Disclaimer</i></span>
        <span style="margin-right: 0.5em;">Help</span>
        <span><i>Help</i></span>
        <span style="margin-right: 0.5em;">Helpful links</span>
        <span><i>Helpful links</i></span>
        <span style="margin-right: 0.5em;">FAQ</span>
        <span><i>FAQ</i></span>
        <span style="margin-right: 0.5em;">Frequently asked questions</span>
        <span><i>Frequently asked questions</i></span>
      </div>
    </div>
  </div>
  <div data-turbo="true" data-turbo-stale="30s" data-turbo-reload="1000ms" data-turbo-interceptor="https://health.advice-group.website/api/turboreload">
    <div style="background-color: #e0f7fa; min-height: 40px; border-bottom: 2px solid #007bff; padding: 5px; display: flex; justify-content: space-between; font-size: 0.8em; margin-bottom: 10px;">
      <span>Health</span>
      <span>Advice</span>
      <span>Group</span>
      <span><i>Home</i></span>
      <span><i>Advice</i></span>
      <span><i>About us</i></span>
      <span><i>Risk assessment</i></span>
      <span><i>Register</i></span>
      <span><i>Login</i></span>
      <span><i>Help</i></span>
    </div>
    <div style="border: 1px solid #007bff; padding: 10px; margin-bottom: 20px;">
      <div style="text-align: center; margin-bottom: 10px;">
        <h2>Article name</h2>
        <div style="display: flex; justify-content: space-around; font-size: 0.8em; margin-top: 2px;">
          <span>Date:</span>
          <span>*date*</span>
          <span>Time:</span>
          <span>*time*</span>
          <span>Category:</span>
          <span>*category*</span>
          <span>Publisher:</span>
          <span>*publisher*</span>
        </div>
        <img alt="A central image showing various medical icons like a heart, DNA, a stethoscope, a doctor, a microscope, and a tablet with a graph, all interconnected by dashed lines, symbolizing healthcare and medical research." style="width: 100%; max-width: 600px; margin: 10px auto; border: 1px solid #007bff; border-radius: 5px;"/>
      </div>
      <div style="border: 1px solid #007bff; padding: 5px; margin-top: 10px; text-align: center; font-size: 0.8em; background-color: #e0f7fa; min-height: 50px; height: 100%; overflow: scroll; margin-bottom: 20px;">
        *Insert article content*
      </div>
    </div>
    <div style="background-color: #e0f7fa; min-height: 40px; border-top: 2px solid #007bff; padding: 5px; display: flex; justify-content: space-between; font-size: 0.8em; margin-bottom: 10px;">
      <span><i>Home</i></span>
      <span><i>About us</i></span>
      <span><i>Policy</i></span>
      <span><i>Terms and conditions</i></span>
    </div>
  </div>
</body>

```

Article Layout Page:


[Home](#)
[Advice](#)
[About us](#)
[Risk assessment](#)

[Register](#)
[Login](#)


Article name

Date: *date*

Time: *time*

Category: *category*

Publisher: *publisher*

Insert article content

This is the article layout page snippet which includes the navigation bar, footer, and accessibility panel at the side as the default layout. This page could only be reached if the user clicks on the articles on the advice page, profile page and not yet implemented but the home page articles. I followed the same layout as the visual design so not much has changed except more spacing between the date, time, category, and publisher section. I have used the same image which would be replaced with an image corresponding to the article. The article content was intended to be uploaded from the SQL database, but this has not yet been implemented.

Article Layout Page HTML:

```

1 <div>
2   <div style="min-height: 100vh;">
3     <header>
4       <div class="row">
5         <div style="flex-grow: 1; position: relative; min-height: 40px; background-color: #f0f0f0; border-bottom: 1px solid #ccc; margin-bottom: 10px; width: 100%; height: 100%; transform: rotate(-1deg); transform-origin: left top; border-radius: 10px; z-index: 1; ">
6           <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-color: #fff; border-radius: 10px; z-index: 1; ">
7             <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.2em; color: #333; font-weight: bold; font-family: sans-serif; border: 1px solid #ccc; padding: 5px; border-radius: 5px; z-index: 1; ">
8               Health Advice Group Website
9             </div>
10            <a href="#" style="display: block; width: 100%; height: 100%; position: absolute; top: 0; left: 0; z-index: 1; ">
11              <img alt="Health Advice Group Website logo" style="width: 100%; height: 100%; object-fit: cover; border-radius: 10px; z-index: 1; ">
12            </a>
13          </div>
14        </div>
15        <div style="display: flex; justify-content: space-between; align-items: center; width: 100%; height: 100%; position: absolute; top: 0; left: 0; z-index: 1; ">
16          <div style="flex-grow: 1; position: relative; width: 100%; height: 100%; transform: rotate(1deg); transform-origin: left top; border-radius: 10px; z-index: 1; ">
17            <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-color: #fff; border-radius: 10px; z-index: 1; ">
18              <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.2em; color: #333; font-weight: bold; font-family: sans-serif; border: 1px solid #ccc; padding: 5px; border-radius: 5px; z-index: 1; ">
19                Admin
20              </div>
21              <a href="#" style="display: block; width: 100%; height: 100%; position: absolute; top: 0; left: 0; z-index: 1; ">
22                <img alt="Admin logo" style="width: 100%; height: 100%; object-fit: cover; border-radius: 10px; z-index: 1; ">
23              </a>
24            </div>
25          </div>
26          <div style="flex-grow: 1; position: relative; width: 100%; height: 100%; transform: rotate(-1deg); transform-origin: right top; border-radius: 10px; z-index: 1; ">
27            <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-color: #fff; border-radius: 10px; z-index: 1; ">
28              <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.2em; color: #333; font-weight: bold; font-family: sans-serif; border: 1px solid #ccc; padding: 5px; border-radius: 5px; z-index: 1; ">
29                User
30              </div>
31              <a href="#" style="display: block; width: 100%; height: 100%; position: absolute; top: 0; left: 0; z-index: 1; ">
32                <img alt="User logo" style="width: 100%; height: 100%; object-fit: cover; border-radius: 10px; z-index: 1; ">
33              </a>
34            </div>
35          </div>
36        </div>
37      </div>
38    </header>
39    <div style="min-height: 100%; position: relative; background-color: #f0f0f0; border-top: 1px solid #ccc; border-bottom: 1px solid #ccc; width: 100%; height: 100%; transform: rotate(-1deg); transform-origin: left top; border-radius: 10px; z-index: 1; ">
40      <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-color: #fff; border-radius: 10px; z-index: 1; ">
41        <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.2em; color: #333; font-weight: bold; font-family: sans-serif; border: 1px solid #ccc; padding: 5px; border-radius: 5px; z-index: 1; ">
42          Admin
43        </div>
44        <a href="#" style="display: block; width: 100%; height: 100%; position: absolute; top: 0; left: 0; z-index: 1; ">
45          <img alt="Admin logo" style="width: 100%; height: 100%; object-fit: cover; border-radius: 10px; z-index: 1; ">
46        </a>
47      </div>
48    </div>
49  </div>
50 </div>

```

Additional Notes:

I didn't end up implementing an admin profile page which would've been implemented but I had ran out of time. This means the admin account table isn't populated and you cannot yet login with admin account information even if it is uploaded.

The screenshot shows a MySQL query results page. The results table has one row with the following data:

admin_id	job_role	view_login_records	view_customisation_records	view_risk_assessment_records	view_accessibility_preferences	edit_articles	fk_login_id

Below the table, there are two buttons: "Query results operations" and "Create view".

This is a snippet of the admin information table which is an idea of what the SQL database could've stored from the user.

Server: 127.0.0.1 > Database: health_advice_group_db

Structure	SQL	Search	Query	Export	Import	Operations	Privileges	Routines	Events	Triggers	Tracking
Filters											
Containing the word: <input type="text"/>											
Table	Action	Rows	Type	Collation	Size	Overhead					
accessibility_preferences		0	InnoDB	utf8mb4_general_ci	32.0 KiB	-					
admin_information		0	InnoDB	utf8mb4_general_ci	32.0 KiB	-					
articles		0	InnoDB	utf8mb4_general_ci	16.0 KiB	-					
login_information		3	InnoDB	utf8mb4_general_ci	32.0 KiB	-					
risk_assessment_appointments		1	InnoDB	utf8mb4_general_ci	32.0 KiB	-					
5 tables	Sum	4	InnoDB	utf8mb4_general_ci	144.0 KiB	0 B					

This is a snippet for the whole SQL database, showing the tables currently present.

Task 2: Test log

Description of test	Test data to be used (if required)	Type of testing	Expected outcome	Actual outcome	Comments and intended actions
To make sure all the links work on the website and you are able to navigate the page to page without any issues.	Clicking through all the links presented on the website	Integration/interface testing	There are no issues with the links, and everything loads as it should.	There was an issue on the advice page where you couldn't go to the accessibility panel while being on it. Every other link leads the user to the correct place.	This issue has been fixed by moving the code which included the link of the accessibility panel to before the 'style' section.
To make sure the home page loads correctly with the any images rendering as they should.	Clicking on the home page.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.
To make sure the advice page loads correctly with the any images rendering as they should.	Clicking on the advice page.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.

To make sure the advice page 2 loads correctly with the any images rendering as they should.	Clicking on the advice page 2.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.
To make sure the about us page loads correctly with the any images rendering as they should.	Clicking on the about us page.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.
To make sure the risk assessment page loads correctly with the any images rendering as they should.	Clicking on the risk assessment page.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.
To make sure the register page loads correctly with the any images rendering as they should.	Clicking on the register page.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.
To make sure the login page loads correctly with the any images	Clicking on the login page.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.

rendering as they should.					
To make sure the accessibility panel page loads correctly with the any images rendering as they should.	Clicking on the accessibility panel page.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.
To make sure the policy page loads correctly with the any images rendering as they should.	Clicking on the policy page.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.
To make sure the terms and conditions page loads correctly with the any images rendering as they should.	Clicking on the terms and conditions page.	White box testing	The page and images should render correctly.	The page it displayed correctly without any issues.	No comments.
Testing the whole solution to make sure it's web responsive to different users.	Resizing the window with the website on different pages.	Compatibility testing.	The website should be compatible and easy to use in different resolutions and	The website is very compatible with different window sizes meaning this would be suitable	No comments.

			window sizes.	for people on different devices and provides accessibility.	
Testing the whole solution to make sure it can handle multiple responses.	Loading multiple pages of the same website.	Load testing.	The website should be able to handle multiple incoming traffic.	The website runs very smoothly and quickly with a lot of traffic.	No comments.
Testing the code files to make sure they are readable and efficient.	Reading through the code files.	Code/script performance and functionality	The code should be easy to read and efficient with frequent uses of comments, naming conventions and file organisation.	The code frequently uses commenting to explain the following code and the files use the correct naming conventions and are sorted correctly within different folders to represent different parts of the program.	No comments.
Testing the whole solution to make sure it's compatible with different browsers.	Opening the solution in different browsers such as Microsoft Edge, Chrome and Firefox.	Browser compatibility.	The solution should be displayed the same with the images being able to load correctly.	The solution displays the same on the browsers that were tested with no errors.	No comments.

Testing the whole solution to see how responsive it is.	Clicking on different pages.	Responsiveness and loading times.	The solution should load each page quickly and efficiently.	The solution loads each page very quickly.	No comments.
Testing the register page to see if it displays error messages for non-matching passwords.	Name: testname Email Address: test@gmail.com Password: test123 Repeat Password: test Accept terms and conditions: Yes	Unit testing, abnormal data.	The solution should not allow the user to register with non-matching passwords and produce an error.	The solution produces an error saying the passwords do not match.	No comments.
Testing the register page to see if it displays error messages for submitting empty fields.	Submitting empty fields.	Unit testing, abnormal data.	The solution should not allow the user to register with empty fields and should not proceed the user any further.	The solution produces an error saying the fields are empty.	No comments.
Testing the register page to see if it displays error messages for an extreme input for the email field.	Name: testname Email Address: test@gmail.comUFIOfowqpeu3910 Password: test123 Repeat Password:	Unit testing, extreme data.	The solution should not allow the user to register with an incorrectly formatted email.	The solution allows the user to register with this email which it should produce an error to instead.	This hasn't been fixed yet.

	test123 Accept terms and conditions: Yes				
Testing the register page to see if it displays error messages for an extreme input for the email field.	Name: testname Email Address: UFIOFowqpeu3910 Password: test123 Repeat Password: test123 Accept terms and conditions: Yes	Unit testing, extreme data.	The solution should not allow the user to register with an incorrectly formatted email.	The solution asks the user to include the '@' symbol in their input because it's formatted incorrectly.	No comments.
Testing the register page to see if the solution allows the user to register with correct details.	Name: testname Email Address: test@gmail.com Password: test123 Repeat Password: test123 Accept terms and conditions: Yes	Unit testing, normal data.	The solution should tell the user that they have registered successfully and add the details to the database.	The solution tells the user that they have registered successfully, and the information is added into the database.	No comments.
Testing the register page to see if the solution allows the user to register with	Name: testname Email Address: test@gmail.com Password:	Unit testing, abnormal data.	The solution should tell the user that the details that they have used have been already	The solution tells the user that the email is not available and the information isn't	No comments.

correct details that have been registered before with by the previous test.	test123 Repeat Password: test123 Accept terms and conditions: Yes		registered with and the information isn't added into the database again.	added into the database.	
Testing the login page to see if the user can login with the details that they have used to register previously.	Email Address: test@gmail.com Password: test123	Unit testing, normal data.	The solution should allow the user to login and it should lead them to the profile page where their name that they have registered with should be displayed at the top.	The solution allows the user to login and redirects them to the profile page where it displays their name that they have registered with at the top.	No comments.
Testing the login page to see if the user can login with any details.	Email Address: orange@gmail.com Password: orange321	Unit testing, extreme data.	The solution shouldn't allow the user to login and should produce an error since the details are not registered within the database.	The solution produces an error saying the email or password is invalid and doesn't allow the user to login.	No comments.
Testing the profile page to see if you can logout by clicking on the profile picture in the top corner and	Pressing the profile icon in the top right corner and then pressing logout.	Unit testing, normal data.	The solution should allow the user to go to settings once they click on the icon and then they can click the logout button.	The solution allows the user to logout by clicking the profile icon and then the logout button.	No comments.

pressing logout.			button which should redirect the user to the home page and log them out.		
Testing the profile page to make sure you can click the weather page, air quality page and symptom page.	Clicking on the weather button, air quality button and symptom button.	Unit testing, normal data .	The solution should allow the user to click on the different features as well as being able to go back with the buttons on the page.	The solution allows the user click on the different features as well as go back with the back button on every page. The weather, air quality and symptom buttons work perfectly without any issue.	No comments.
Testing the weather page by entering a city name with a spelling mistake.	City name: Land0n	Unit testing, API testing, abnormal data .	The solution should provide an error saying no data can be found for the following city.	The solution provides an error for the user's input.	No comments.
Testing the weather page by entering an extreme city name input.	City name: GM\$OGsfipw201	Unit testing, API testing, extreme data .	The solution should provide an error saying no data can be found for the following city.	The solution provides an error for the user's input.	No comments.

Testing the weather page by entering a correct city name.	City name: London	Unit testing, API testing, normal data .	The solution should provide different health issues and responses according to the weather in London.	The solution provides an output for the weather in London as well as possible health issues.	No comments.
Testing the air quality page by entering a city name with a spelling mistake.	City name: Monche\$ter	Unit testing, API testing, abnormal data .	The solution should provide an error saying no data can be found for the following city.	The solution provides an error for the user's input.	No comments.
Testing the air quality page by entering an extreme city name input.	City name: GM\$OGsfipw201	Unit testing, API testing, extreme data .	The solution should provide an error saying no data can be found for the following city.	The solution provides an error for the user's input.	No comments.
Testing the air quality page by entering a correct city name.	City name: Manchester	Unit testing, API testing, normal data .	The solution should provide the user with an insight if it's a good time to go for a run or not due to the air quality in Manchester.	The solution provides an output for air quality in Manchester and tells the user if it's a good time to go for a run.	No comments.
Testing the symptom page to see if the countdown is still being displayed	Clicking on the check symptoms page.	Unit testing.	The solution is able to display a countdown and a back button for this page.	The solution displays a countdown with a back button on this page.	No comments.

and if the back button works.					
Testing the risk assessment page to see if the user can book an appointment with incorrect login details.	Email: test234435435@mail.com Password: test123 DD/MM/YYYY: 22/03/2023 Time: 14:30	Unit testing, abnormal data.	The solution should not allow the user to book an appointment, provide an error message and not update the database.	The solution shows an error saying the login credentials are invalid and the database did not get updated.	No comments.
Testing the risk assessment page to see if the user can book an appointment with incorrect login details.	Email: UFIOFowqpeu3910 Password: orange321 DD/MM/YYYY: 22/03/2023 Time: 14:30	Unit testing, extreme data.	The solution should not allow the user to book an appointment, provide an error message and not update the database.	The solution shows an error saying the email is in the incorrect format and does not contain '@' symbol.	No comments.
Testing the risk assessment page to see if the user can book an appointment with correct login details.	Email: test@gmail.com Password: test123 DD/MM/YYYY: 22/03/2023 Time: 14:30	Unit testing, normal data.	The solution should allow the user to create a booking appointment with the following credentials and it should be added into the database.	The solution tells the user that they have successfully booked an appointment and the database is updated with the user's appointment	No comments.

				information.	
Testing the risk assessment page to see if the user can book an appointment with correct login details within 2 weeks after booking their last appointment.	Email: test@gmail.com Password: test123 DD/MM/YYYY: 29/03/2023 Time: 14:30	Unit testing, abnormal data.	The solution should show the user an error since they are trying to book an appointment before 2 weeks have passed since their last risk assessment appointment.	The solution tells the user that they can't book an appointment since it hasn't been 2 weeks since their last risk assessment appointment.	No comments.
Testing the risk assessment page to see if another user can book an appointment at the same time and date as another user.	Email: orange@gmail.com Password: orange321 DD/MM/YYYY: 22/03/2023 Time: 14:30	Unit testing, normal data.	The solution should show the user an error saying the time is taken and it will not add the information to the database.	The solution tells the user that the appointment time is taken and the database isn't updated.	No comments.



- Normal data



- Extreme data



- Abnormal data

Task 2 Assets Log:

<u>Content:</u>	<u>Source:</u>	<u>Type of content:</u>	<u>Purpose:</u>	<u>Date gathered:</u>
Bootstrap template	https://getbootstrap.com/	Templates for the website.	To help with creating the web design, the used templates were different forms, countdown feature, checkboxes, card layouts, CSS templates, bootstrap icons, bootstrap input field styling, bootstrap fonts and button styling.	06/03/2023
 Health Advice Group	https://app.logo.com/dashboard/logo_f7212e9b-74de-4613-b5e0-38dd82d8c7f3/your-logo-files	Logo for the website.	To help users recognise the company and make the website look a lot more professional.	06/03/2023
	https://fontawesome.com/icons/wheelchair?s=solid&f=classic	Icon for the accessibility panel.	To help users recognise the accessibility settings so they can quickly find and change the settings that are needed.	06/03/2023

	<p>https://www.google.com/search?q=health+images&rlz=1C1GCEO_enGB1023GB1023&source=lnms&tbo=isch&sa=X&ved=2ahUKEwiloNH3sur9AhUOXMAKHYV2AR8Q_AUoAXoECAEQAw&biw=1649&bih=1078&dpr=1#imgrc=TYEm17LFEgDKkM</p>	<p>Image for the home page.</p>	<p>To entertain the users with different media and so they don't just have to look at text and then end up clicking off the page.</p>	<p>08/03/2023</p>
	<p>https://www.google.com/search?q=health+images&rlz=1C1GCEO_enGB1023GB1023&source=lnms&tbo=isch&sa=X&ved=2ahUKEwiloNH3sur9AhUOXMAKHYV2AR8Q_AUoAXoECAEQAw&biw=1649&bih=1078&dpr=1#imgrc=ELwwU9GsISLRYM&imgdii=xOJf0wtMYqXz2M</p>	<p>Image for the about us page.</p>	<p>To entertain the users with different media and so they don't just have to look at text and then end up clicking off the page.</p>	<p>08/03/2023</p>

	https://www.google.com/search?q=health+images&rlz=1C1GCEO_enGB1023GB1023&source=lnms&tbm=isch&sa=X&ved=2ahUKEwiloNH3sur9AhUOXMAKHYV2AR8Q_AUoAXoECAEQAw&biw=1649&bih=1078&dpr=1#imgrc=iNfNUELthEeCLM&imgdii=OKUocHrQ2YNahM	Image for the article layout page.	To entertain the users with different media and so they don't just have to look at text and then end up clicking off the page. This image would be replaced by a different image when different articles are uploaded and made.	08/03/2023
 person	https://getbootstrap.com/	Bootstrap icon for the profile page, navigation bar, and login page.	To show that the user is logged-in and acts as a link to the profile page and settings.	13/03/2023
Weather API	Weather API - OpenWeatherMap	Weather API for the profile page.	To show the weather, wind speed, and humidity to the user based on the city that they have entered.	17/03/2023
Air quality API	Weather API - OpenWeatherMap	Air quality API for the profile page.	To show the air quality rating to the user based on the city that they have entered.	17/03/2023

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Task 3a Action Plan:

Testers that have been requested to complete feedback:

Name:	Type of Audience: (Technical/Non-technical)	Have they replied/not replied?	Date of when the form was sent out:
Callum	Technical audience	They have replied.	19/04/2023
Roddick	Technical audience	They have replied.	19/04/2023
Taylor	Technical audience	They have replied.	19/04/2023
Jake	Technical audience	They have not replied.	19/04/2023
Alex	Technical audience	They have not replied.	19/04/2023
Taya	Non-technical audience	They have replied.	19/04/2023
Raya	Non-technical audience	They have replied.	19/04/2023
Kintija	Non-technical audience	They have replied.	19/04/2023
Pippa	Non-technical audience	They have replied.	19/04/2023

 - Have replied.

 - Haven't replied.

Final choice of testers:

Name:	Type of Audience: (Technical/Non-technical)	Course they're doing: (Digital Business Services)	Age:	Method of test used: (Email, video call)	Why were they chosen:	Progress of testing: (Finished/ Midway complete, Unfinished)
Kintija	Non-technical	Business, drama + more in high school	15	Microsoft forms survey	They do not take any computing course and do not have much knowledge about computing	Finished
Callum	Technical	Computing Level 2	16	Microsoft forms survey	They take a computing course and are planning to take a T-level computing course next.	Finished
Raya	Non-technical	T-Level Digital Business Services in Partnership with Lloyd's Bank Year 2	18	Microsoft forms survey	They take a business course but do not take a computing course.	Finished
Pippa	Non-technical	Animal Management Level 3	17	Microsoft forms survey	They do not take a computing course and do not have much knowledge about computing.	Finished
Taylor	Technical	T-Level Digital Design, Production and Development	18	Microsoft forms survey	They take a computing course and have completed complex computer projects in the past.	Finished
Taya	Non-technical	Art Level 1	17	Microsoft forms survey	They don't take a computing	Finished

					course and do not have much knowledge about computing.	
Roddick	Technical	T-Level Digital Design, Production and Development	18	Microsoft forms survey	They take a computing course and have worked on different computing projects.	Finished

Overall, there was 4 non-technical testers and 3 technical testers.

Tester Feedback:

Tester name: Kintija

Type of audience: Non-technical

Method of test used: Microsoft forms survey

How the prototype was presented: Video and screenshots in a PowerPoint

General Information

1. What is your name? *

2. What course are you studying? *

3. How old are you? *

4. Will you be taking the technical or non-technical survey? *

Technical survey (104 questions)

Non-technical survey (73 questions)

Non-technical survey - Layout

You are now completing a non-technical survey, you can look through all the pages to familiarise yourself with the layout.

5. What do you think of the layout/theme, does it go together and look cohesive, why/why not? *

The theme is very well put together and the layout makes it very accessible for people to access as everything is well organised.

6. What do you think about the font and colours used, are they readable and easy to see, why/why not? *

The font used overall is very bold, this makes it easy to read and understand without any issues.

7. Do you like the logo, if so why, if not why and how can it be improved? *

It's clear and memorable, the heart also links to what the website is called which I think is quite good. However, I think that the writing in 'Health advice Group' could be made a little bit more bold.

8. What do you think of the accessibility panel placement? *

I think the placement of the accessibility panel placement is quite good, but it is also a little tricky to spot.

Non-technical survey - Home Page

You are now completing a non-technical survey, the home page could be found on the navigation bar, at the top left corner.

9. What do you think about the new articles section? *

I think the layout is quite good, but maybe something could be added to make it less plain.

10. Do you find the information/features/this page on this website useful to you, why/why not? *

Yes, I like how it features latest articles and the name of the article to know what it's about on the home page.

11. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I would suggest having a little bit about the new articles before clicking on it.

12. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Advice Page

You are now completing a non-technical survey, the advice page could be found on the navigation bar.

13. What is your opinion on the feature that allows you to switch pages between the articles at the bottom of the page? *

I like how as well as going to the next page of articles, you can select which page to go to instead of clicking through the pages one by one.

14. Do you find the information/features/this page on this website useful to you, why? *

Yes, I like how the advice is easily accessible.

15. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I like how there is a brief overview of each article

16. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - About Us Page
 You are now completing a non-technical survey; the about us page could be found on the navigation bar.

17. Do you find that the image conveys and relates to the company and what the website is about? *

Yes, the advice articles definitely links to a health advice group.

18. Do you find the information/features/this page on this website useful to you, why? *

Yes, it tells you about the website which can be used to find out what the website potentially contains.

19. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I like how the photo matches the colour theme of the website.

20. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

21. What is your opinion on the feature that allows you to select multiple features and tick multiple checkboxes? *

I like how you can select multiple options.

22. Do you find the information/features/this page on this website useful to you, why? *

I think it is useful to be able to have different features to choose from.

23. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

The check boxes are quite small and hard to read.

24. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ☆ ☆ ☆

Non-technical survey - Policy Page
 You are now completing a non-technical survey; the policy page could be found on the footer, at the bottom of the page.

25. Do you find the information/features/this page on this website useful to you, why? *

I don't really read policies, however i can see it be useful for those who do.

26. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Its quite plain,something should be added.

27. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ☆ ☆ ☆

28. Do you find the information/features/this page on this website useful to you, why? *

I think this can be useful to know what you agree to when using the website.

29. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Its a lot of white, maybe add some more colour.

30. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ☆ ☆ ☆

Non-technical survey - Register Page
 You are now completing a non-technical survey; the register page could be found on the navigation bar, on the right.

31. What is your opinion on the feature that allows you to register using the information fields provided, how did you find it, was it easy, if not why? *

I like how it tells you if the passwords do not match and doesn't let you continue till they do and for the email it has to include an @, this makes it easy to know what the problem was with registering.

32. Did you encounter any errors, if so please explain? *

No I did not.

33. Do you find the information/features/this page on this website useful to you, why? *

Yes, it allows for you to create an account which is useful in websites.

34. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I like how its easy to understand and clear what information must be provided in each box.

35. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

36. What is your opinion on the feature that allows you to login with the details you have registered with, how easy was it, if not why? *

I think there should be a way to use your saved login if it doesn't already do that already instead of typing it all out again.

37. Do you find the information/features/this page on this website useful to you, why? *

Yes, because it lets you get back into your registered account.

38. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I like how it tells you when you have entered a detail wrong.

39. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Profile Page
 You are now completing a non-technical survey; the profile page can only be reached after you login successfully which then you will be redirected to.

40. What is your opinion on the feature that displays a heading saying welcome and the name the user has registered with? *

I think it seems very welcoming for the user.

41. Do you like the articles recommended for you feature, why, why not? *

Yes, then you can see ones that are directly towards you and the things you have looked at previously.

42. Do you find the information/features/this page on this website useful to you, why? *

Yes, I like how you can check symptoms.

43. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

The recommended articles is very accessible and professional.

44. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

45. Are you able to click on the check weather feature and does it function correctly? (Refer to the PowerPoint) *

Yes, it functions as it is supposed to do.

46. When you enter a city name, does it say the current weather state as well as the facts and figures? (Refer to the PowerPoint) *

Yes, it gives you temperature, humidity and wind speed.

47. Do you find the information/features/this page on this website useful to you, why? *

I think its useful how it checks all aspects of the weather, wind speed, temperature and gives you advice for what to do in the conditions.

48. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I particularly like how it gives you advice for the place you selected, for example, if the place you have entered is dry, it tells you to stay hydrated and moisturised.

49. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Check Air Quality Feature
 You are now completing a non-technical survey, the check air quality feature can be accessed from the profile page.

50. Are you able to click on the check air quality feature and does it function correctly? (Refer to the PowerPoint) *

Yes, it works like it is intended to do.

51. When you enter a city name, does it say the current running quality based on air quality state as well as the facts and figures? (Refer to the PowerPoint) *

Yes, when entering a city like Manchester, it tells you the air quality is 2 as well as putting (2) in brackets, in case you didn't know what it meant.

52. Do you find the information/features/this page on this website useful to you, why? *

I personally do not need it, but if you live in an area where the air quality can be quite bad, this is definitely useful.

53. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I like how it tells you can go for a run in the stated air quality.

54. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★☆☆

Non-technical survey - Check Symptom Feature
 You are now completing a non-technical survey, the check symptoms feature can be accessed from the profile page.

55. Are you able to click on the check symptom feature and does it function correctly? (Refer to the PowerPoint) *

Yes, it has a timer countdown for when the feature comes.

56. Does it show a countdown, do you like it, why/why not? *

Yes, it lets you know when it will be there so you aren't left wondering and you don't need to work out how long it will take.

57. Do you find the information/features/this page on this website useful to you, why? *

Yes, the countdown is useful and it will be very professional to have a symptoms page.

58. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No.

59. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★☆☆

Non-technical survey - Risk Assessment Page
 You are now completing a non-technical survey, the risk assessment page could be found on the navigation bar.

60. Are you able to book an appointment, how did you find it, was it easy, if not why and what was the issue? (Refer to the PowerPoint) *

There's bold lettering at the top with the title 'Risk assessment' so it is easy to locate, from there the steps are easy.

61. Did you encounter any errors, if so please explain? *

No.

62. Do you find the information/features/this page on this website useful to you, why? *

Yes, it is useful if you want to book an appointment.

63. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Instead of choosing a time and then it telling you that you can't because it is taken I think if the appointment time is already taken, there shouldn't be an option to choose it.

64. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★☆☆

Tester name: Callum

Type of audience: Technical

Method of test used: Microsoft forms survey.

How the prototype was presented: Video and screenshots in a PowerPoint

General Information

1. What is your name? *
Calum kavanagh

2. What course are you studying? *
Level 2 computing

3. How old are you? *
16

4. Will you be taking the technical or non-technical survey? *

Technical survey (104 questions)
 Non-technical survey (73 questions)

Technical survey - Layout

You are now completing a technical survey, you can look through all the pages to familiarise yourself with the layout.

5. What do you think of the layout/theme, does it go together and look cohesive, why/why not?
 After a look at the layout/theme I can confidently decide it is clear and cohesive and I believe this based on the fact that there is a great use of color theory relating to the idea of health and a ergonomic design to make the experience easy to understand.

6. What do you think about the font and colours used, are they readable and easy to see, why/why not?
 Starting with the fonts they are very clear and visible allowing for the most accessibility for readers. Along with the colors used as stated previously the use of color theory really brings the idea of life and health into the environment.

7. What do you think of the naming of navigation bar links and footer links, are they relevant and easy to understand what the website is about?
 After looking closely at the navigation bar links and the footer I believe they work effectively and make finding what you need to find very efficient. This summarises the website easy to understand.

8. Do you like the logo, if so why, if not why and how can it be improved? *
 The logo is a perfect example of what something health related could look like and I think in many factors such as a heart shape along with a healthy green colour, the all together lets you know exactly what the website is about even looking at it.

9. What do you think of the accessibility panel placement? *
 I believe that the accessibility is very well made for the average person but I do believe some people like the elderly may find it hard to make that they click this to bring the panel up as it is not named and could possibly be misleading for a user/people.

10. Do you find that the image at the top conveys and relates to the company and what the website is about? *
 Yes the image shows many things to do with health such as medicine and first aid kits and doctors uniforms which all point to the website being health related.

11. What do you think about the new articles section? *
 I think it is laid out appropriately and makes it easy to understand and navigate.

12. Do you find the information/features/this page on this website useful to you, why/why not? *
 I like how it features the articles and many accessibility options and this is a website I would feel comfortable going to knowing that accessibility has been very thought out.

13. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *
 I believe overall this website has been made perfectly to include many options to people even including those with accessibility issues.
 The only thing I would suggest is maybe to do with the icons for the accessibility option as I think the people that use them specifically will benefit from that this is indeed something they need to click and could include it for a photo and I think that it would provide a benefit to them if it could be linked as well or maybe an arrow pointing to it.

14. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Advice Page

You are now completing a technical survey, the advice page could be found on the navigation bar.

15. What is your opinion on the feature that allows you to click on the articles and direct you to the article layout page? *
 I think this has been well made with a pleasing layout and I am happy with it.

16. What do you like, dislike and would change about the article layout page? *
 I personally do not think I would change anything.

17. What is your opinion on the feature that allows you to switch pages between the articles at the bottom of the page? *
 I think this has been well made and does its job efficiently.

18. Do you find the information/features/this page on this website useful to you, why? *
 Yes I think this page has an incredibly important job and allows users to understand much more than what they would without it.

19. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *
 I particularly like the article page as it enjoys its easy to use layout and I think it has a good design with the article easily split up.

20. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - About Us Page

You are now completing a technical survey, the about us page could be found on the navigation bar.

21. Does the image resize correctly when you change the window sizes/devices? (Refer to the PowerPoint) *
 Yes it does.

22. Do you find that the image conveys and relates to the company and what the website is about? *
 Yes I believe the idea of the earth wrapped up in a stethoscope brings the idea of taking care of everyone.

23. Do you find the information/features/this page on this website useful to you, why? *
 Yes I find this useful as it can be more reassuring to learn more about the website you are using and can make users feel safer.

24. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *
 I think that one feature I like is the image as it provides a kind of comfort along with showing a photo related to the website.

25. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Accessibility Panel Page

You are now completing a technical survey, the accessibility panel page could be found at the side of every page, usually on the right with a grey border and a black wheelchair icon.

26. What is your opinion on the feature that allows you to select multiple features and tick multiple checkboxes? *
 I think this is wonderfully made and will allow people to use the website much easier.

27. Do you find the information/features/this page on this website useful to you, why? *
 Yes being able to have accessibility options allows people to use the website who may not be able to without it.

28. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *
 I like the ease of use of this page being able to simply click what options you need and multiple if needed.

29. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical Survey - Register Page

You are now completing a technical survey, the register page could be found on the navigation bar, on the right.

30. Do you find the information/features/this page on this website useful to you, why? *
 There isn't much on this page but overall I can lead to many issues if not upkept as I believe it was a good idea to keep this page clear and simply focused on the privacy.

31. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *
 I like the idea of keeping it simple and believe this page needs nothing else.

32. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Policy Page

You are now completing a technical survey, the policy page could be found on the footer at the bottom of the page.

33. Do you find the information/features/this page on this website useful to you, why? *
 Yes I think it is useful to know these terms and conditions.

34. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *
 Once again I like the clear screen to focus on the terms and conditions.

35. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Terms and Conditions Page

You are now completing a technical survey, the terms and conditions page could be found on the footer, at the bottom of the page.

36. Do you find the information/features/this page on this website useful to you, why? *
 Yes I think it is useful to know these terms and conditions.

37. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *
 Once again I like the clear screen to focus on the terms and conditions.

38. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Profile Page

You are now completing a technical survey, the profile page can only be reached after you sign in successfully which then you will be redirected to.

39. Do you find the information/features/this page on this website useful to you, why? *
 I think this is a good feature to enable the individual to personalise their account.

40. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *
 No I am able to tick on the profile icon in the top right, and then click it again, does it return me to my profile page or does it just take me to the settings page? (Refer to the PowerPoint) *
 Yes I do this above to do the desired.

41. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Check Weather Feature

You are now completing a technical survey, the check weather feature can be accessed from the profile page.

42. Do you find the information/features/this page on this website useful to you, why? *
 Yes I do it is very useful being able to see the information and is a benefit to the individual.

43. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *
 No I like the information and will leave the weather as it is.

44. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Check Air Quality Feature
 You are now completing a technical survey, the check air quality feature can be accessed from the profile page.

63. Are you able to click on the check air quality feature and does it function correctly? (Refer to the PowerPoint) *

Yes
 No

64. When you enter a city name, does it say the current running quality based on air quality state as well as the facts and figures? (Refer to the PowerPoint) *

Yes
 No

65. Are you able to enter different cities and view the air quality for them, how accurate is it and how useful is this, does it show errors when a city is entered incorrectly? (Refer to the PowerPoint) *

Yes
 No

66. Do you find the information/features this page on this website useful to you, why? *

Yes I think all these features could be useful but not to me specifically.
 No

67. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

The feature of being able to see if its safe outside interests me and I think is a good addition.

68. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Check Symptom Feature
 You are now completing a technical survey, the check symptom feature can be accessed from the profile page.

69. Are you able to click on the check symptom feature and does it function correctly? (Refer to the PowerPoint) *

Yes
 No

70. Does it show a countdown, do you like it, why/why not? *

Yes I like this as it lets you know easier when the feature is available.

71. Do you find the information/features this page on this website useful to you, why? *

Yes I think they are useful maybe not to me specifically but many others it could be.

72. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I particularly like the countdown feature.

73. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Risk Assessment Page
 You are now completing a technical survey, the risk assessment page could be found on the navigation bar.

74. Are you able to book an appointment, how did you find it, was it easy, if not why and what was the issue? (Refer to the PowerPoint) *

Yes you are and you are able to find this in the risk assessment section and it seems easy to do and simple.
 No

75. Are you able to book an appointment with the exact same details, with customized login details, same login details with different dates and time? (Refer to the PowerPoint) *

Yes you can do the same date and you have to just 2 dates in different appointments.
 No

76. What do you think of the error messages, are they clear and do you like the date and time fields with the pop-up menu? *

The error messages are clear and do like the date and time fields with the pop up menu.
 No

77. Did you encounter any errors, if so please explain? *

No

78. Do you find the information/features this page on this website useful to you, why? *

For me they are not useful but for the people that need them they would be.

79. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I like the fact that appointments can only be made 2 weeks apart and that you can double book.

80. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Overall Overview
 You are now completing a technical survey, gathering the the thoughts of what you think about the whole solution.

80. Did you find that the icons, images, and logo was suitable to the website and related to the brand? *

Yes the images and icons were some of the things I found most impressive with the use of color theory and the icons were the friendliest aspect making the website easy to understand and make it fit the health environment.

81. What were your first impressions of this website? *

That I find a health website which provides some kind of information and that the website has been professionally made.

82. How likely would you be inclined to return to this website? *

Somewhat likely
 Neither likely nor unlikely
 Somewhat unlikely
 Very unlikely

83. How likely would you recommend this website to a friend? *

Very likely
 Somewhat likely
 Neither likely nor unlikely
 Somewhat unlikely
 Very unlikely

84. Do you find that the comments demonstrate what the program does, are relevant and help to understand the code? *

Yes I think they do and they provide a big help to the understanding of the code.

85. How would you find the code organization, is the content written grammatically correct, is the code organized in a hierarchical order, are the naming conventions of variables suitable and professional? *

Yes the code is organized nicely and is very clear to understand and easy on the eyes to read through.

86. Do you find that the code is as efficient as it could be, could it be improved or changed further? *

I cant see anything to improve

87. Have you encountered any errors of any sort or bugs, if so please explain? *

No I have not

88. Is this code understandable and clear to read, would you share this code with a business professional? *

Yes I would

89. Please rate the code out of 5 stars (5 being the best, 1 being the worst) *

90. Did you find that the icons, images, and logo was suitable to the website and related to the brand? *

Yes I find the icons and images to be clear and easy to understand.

91. What features would you most like to see in future development? *

Future development I think it would be an interesting feature to include some kind of audio to the website with easier user voice recognition to allow the user to respond to the survey, instead of it to do it through the site.

92. Did you find the website web responsive for your device, if not, please explain? (Refer to the PowerPoint) *

No

93. How was your user experience while navigating through the website, was it smooth? (Refer to the PowerPoint) *

It looked smooth and looked like an easy right to navigate and was an impressive display of web dev capability's.

94. Did you find all the links to be working and clickable, was anything out of order, layout? (Refer to the PowerPoint) *

Yes they all seemed.

95. Did this website render the images correctly and how efficient is the response time, did you have any issues? (Refer to the PowerPoint) *

No they did not have issues they all rendered correctly.

96. Do you believe that this website follows the General Data Protection Regulation guidelines, Web Content Accessibility Guidelines, policies, codes and is accessible to different audiences, why/why not/are if it is improved? *

Yes they do all information required are necessary and inline with GDPR and will lead to no issues in the future.

97. Were you able to find any bugs/issues, if so what are they? *

No

98. Please rate this website out of 5 stars (5 being the best, 1 being the worst) *

99. How did you find this form, was it easy and simple to complete, too long, repeated questions, any issues, or errors? *

Although this form was long it is understandable and it is a necessary action to be taken to insure the safety of the patient and that the patient experience is not off-putting.

100. Any final thoughts, feedback, or comments? *

My final thoughts is believe it should be mandatory to look into making sure everyone of all kinds of difficulties are easily able to navigate to the accessibility tab without any confusion.

101. Any final thoughts, feedback, or comments? *

No

102. Please rate this website out of 5 stars (5 being the best, 1 being the worst) *

103. How did you find this form, was it easy and simple to complete, too long, repeated questions, any issues, or errors? *

Although this form was long it is understandable and it is a necessary action to be taken to insure the safety of the patient and that the patient experience is not off-putting.

104. Any final thoughts, feedback, or comments? *

My final thoughts is believe it should be mandatory to look into making sure everyone of all kinds of difficulties are easily able to navigate to the accessibility tab without any confusion.

Tester name: Raya

Type of audience: Non-technical

Method of test used: Microsoft forms survey.

How the prototype was presented: Video and screenshots in a PowerPoint

General Information

1. What is your name? *

Raya Janis Camara

2. What course are you studying? *

Digital Business Services in Partnership with Lloyd's Bank Year 2

3. How old are you? *

18

4. Will you be taking the technical or non-technical survey? *

- Technical survey (104 questions)
 Non-technical survey (73 questions)

Non-technical survey - Advice Page

You are now completing a non-technical survey, the advice page could be found on the navigation bar.

13. What is your opinion on the feature that allows you to switch pages between the articles at the bottom of the page? *

This is a good thing to have as some users might get annoyed to always having to go back and forth on the pages just to load a different article.

14. Do you find the information/features>this page on this website useful to you, why? *

I find them useful as the page is just easier and more manageable for a non-technical audience using the website.

15. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

16. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Layout

You are now completing a non-technical survey, you can look through all the pages to familiarise yourself with the layout.

5. What do you think of the layout/theme, does it go together and look cohesive, why/why not? *

I think the layout goes very well together and it is very professional and it is bright and colourful.

6. What do you think about the font and colours used, are they readable and easy to see, why/why not? *

The same colours are used throughout the website which is good as there should be a consistency of colour on a website so that everything matches, the writing is very clear and easy to read with the colours.

7. Do you like the logo, if so why, if not why and how can it be improved? *

I really like the logo it is something simple but meaningful and looks professional.

8. What do you think of the accessibility panel placement? *

This is an amazing feature as this also shows that people with any disability aren't left out and are being included so I think this feature is very helpful and meaningful to have in a website.

Non-technical survey - Home Page

You are now completing a non-technical survey, the home page could be found on the navigation bar, at the top left corner.

9. What do you think about the new articles section? *

I think the layout is good but I would prefer for the articles to be included as one as this would make the page more appealing and more presentable.

10. Do you find the information/features>this page on this website useful to you, why/why not? *

I think the features are useful because a user would then want to know when the article was released, the date, time, category and the publisher of the article.

11. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I particularly like the accessibility panel as this shows that anyone that has a disability isn't left out and would feel included and not excluded.

12. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Advice Page

You are now completing a non-technical survey, the advice page could be found on the navigation bar.

13. What is your opinion on the feature that allows you to switch pages between the articles at the bottom of the page? *

This is a good thing to have as some users might get annoyed to always having to go back and forth on the pages just to load a different article.

14. Do you find the information/features>this page on this website useful to you, why? *

I find them useful as the page is just easier and more manageable for a non-technical audience using the website.

15. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

16. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - About Us Page

You are now completing a non-technical survey, the about us page could be found on the navigation bar.

17. Do you find that the image conveys and relates to the company and what the website is about? *

The website is health advice group and I think the image correlates to the website so it goes well with it.

18. Do you find the information/features>this page on this website useful to you, why? *

Not really because there is nothing there except from the picture and the heading.

19. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

20. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Accessibility Panel Page

You are now completing a non-technical survey, the accessibility panel page could be found at the side of every page, usually on the right, with a grey border and a black chevron/cross icon.

21. What is your opinion on the feature that allows you to select multiple features and tick multiple checkboxes? *

This is useful in many websites as this is also a useful tool to have a feature in this page.

22. Do you find the information/features>this page on this website useful to you, why? *

The only one I personally like is the feature that allows you to select multiple features and tick multiple checkboxes.

23. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

24. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Register Page

You are now completing a non-technical survey, the register page could be found on the registration bar, on the right.

31. What is your opinion on the feature that allows you to register using the information fields provided, how did you find it, was it easy, if not why? *

This is useful as it shows that if there is an error whilst for example putting your email and forget to put the @ it will highlight this and then successfully let you register.

32. Did you encounter any errors, if so please explain? *

No

33. Do you find the information/features>this page on this website useful to you, why? *

If there is an error it automatically appears so that you are aware that for example when you put the password it doesn't match when you tried to set the correct password.

34. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

35. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Profile Page

You are now completing a non-technical survey, the profile page can only be reached after you log in successfully which then you will be redirected to.

40. What is your opinion on the feature that displays a heading saying welcome and the name the user has registered with? *

Just a simple introduction

41. Do you like the articles recommended for you feature, why, why not? *

I think this is useful as it is articles recommended for you and after you read that article there could be because you read this we suggest you to read this one.

42. Do you find the information/features>this page on this website useful to you, why? *

'Not because this feature is helpful and keep track of where you are and what articles you have read.'

43. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

44. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Check Weather Feature

You are now completing a non-technical survey, the check weather feature can be accessed from the profile page.

45. Are you able to click on the check weather feature and does it function correctly? (Refer to the PowerPoint) *

Yes it does function correctly and work perfectly fine and also like the fact that if you put in something that is not included in the database it will say sorry we don't work whatever you're in does not exist in our data available.

46. When you enter a city name, does it say the current weather state as well as the facts and figures? (Refer to the PowerPoint) *

Yes it does the temperature, humidity and the wind speed, and also includes a message under weather depending on the weather in that city.

47. Do you find the information/features>this page on this website useful to you, why? *

I find it very useful as this also includes this message for example in the Toronto weather the text is 'It is very cold, dress warmly and avoid frostbite' so this message will change depending on the weather from the city.

48. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

49. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Login Page

You are now completing a non-technical survey, the login page could be found on the navigation bar, on the right.

36. What is your opinion on the feature that allows you to login with the details you have registered with, how easy was it, if not why? *

Fairly easy to login

37. Do you find the information/features>this page on this website useful to you, why? *

Yes as this makes you aware of any incorrect or an error

38. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

39. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Check Air Quality Feature

You are now completing a non-technical survey, the check air quality feature can be accessed from the profile page.

50. Are you able to click on the check air quality feature and does it function correctly? (Refer to the PowerPoint) *

Yes it functions correctly

51. When you enter a city name, does it say the current running quality based on air quality state as well as the facts and figures? (Refer to the PowerPoint) *

Yes it does

52. Do you find the information/features>this page on this website useful to you, why? *

It is useful as everything you need to know about the weather air quality, temperature and others are there when you are there

53. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

54. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Check Symptom Feature

You are now completing a non-technical survey, the check symptoms feature can be accessed from the profile page.

55. Are you able to click on the check symptom feature and does it function correctly? (Refer to the PowerPoint) *

Yes

56. Does it show a countdown, do you like it, why/why not? *

'Yes it works fine and adds a nice touch to it'

57. Do you find the information/features>this page on this website useful to you, why? *

'I like the countdown feature as this gives a more self-aware thing of how much time you have left.'

58. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

59. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Risk Assessment Page

You are now completing a non-technical survey, the risk assessment page could be found on the navigation bar, on the right.

60. Are you able to book an appointment, how did you find it, was it easy, if not why and what was the issue? (Refer to the PowerPoint) *

This is easy to use as all you need to do is to put your email address, password, date of birth and the time of when you want your appointment to be.

61. Did you encounter any errors, if so please explain? *

No I didn't encounter any errors

62. Do you find the information/features>this page on this website useful to you, why? *

'Yes because it also shows the confirmed email address, date of birth, time of the appointment.'

63. Is there a feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

64. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Non-technical survey - Overall Overview

You are now completing a non-technical survey, gathering the final thoughts of what you think about the whole website.

65. Did you find that the icons, images, and the logo was suitable to the website and related to the brand? *

I found the icons were many useful and that they work completely fine without any errors, the images did correlate with the theme of the website which is based on health service groups.

66. What were your first impressions of this website? *

I think this is a nicely put website some things could be changed and improved for example in the advice page to make it more user friendly.

67. How likely would you be inclined to return to this website? *

- Very likely
- Somewhat likely
- Neither likely nor unlikely
- Somewhat unlikely
- Very unlikely

68. How likely would you recommend this website to a friend? *

- Very likely
- Somewhat likely
- Neither likely nor unlikely
- Somewhat unlikely
- Very unlikely

69. Have you visited a website recently that looks similar to this one, if so, please attach a link? *

No

70. What features would you most like to see in future development? *

If there is a longer time in the future or if the business grows I think we should add a contact us page so that customers know where to contact the company/business.

71. Please rate this website out of 5 stars (5 being the best, 1 being the worst) *

★★★★★

72. How did you find the form, was it easy and simple to complete, too long, repeated questions, any issues, or errors? *

I found the form very long and very repetitive as it uses the same questions for every page.

73. Any final thoughts, feedback, or comments? *

(Don't have any)

Tester name: Pippa

Type of audience: Non-technical

Method of test used: Microsoft forms survey.

How the prototype was presented: Video and screenshots in a PowerPoint

Non-technical survey - Layout

You are now completing a non-technical survey, you can look through all the pages to familiarise yourself with the layout.

General Information

1. What is your name? *

Pippa Ginder

2. What course are you studying? *

Animal Management Level 3

3. How old are you? *

18

4. Will you be taking the technical or non-technical survey? *

- Technical Survey (104 questions)
- Non-technical survey (73 questions)

Non-technical survey - Advice Page

You are now completing a non-technical survey, the advice page could be found on the navigation bar.

13. What is your opinion on the feature that allows you to switch pages between the articles at the bottom of the page? *

It is useful and necessary

14. Do you find the information/features/this page on this website useful to you, why? *

Very useful

15. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

16. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★★★

Non-technical survey - About Us Page

You are now completing a non-technical survey, the about us page could be found on the navigation bar.

17. Do you find that the image conveys and relates to the company and what the website is about? *

Yes the image of the stethoscope really brings the page together and the page shows clearly relation to the company and what its about.

18. Do you find the information/features/this page on this website useful to you, why? *

Yes the page links to others at the bottom bar and the features are all useful.

19. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

N/A

20. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★★★

Non-technical survey - Home Page

You are now completing a non-technical survey, the home page could be found on the navigation bar at the top left corner.

9. What do you think about the new articles section? *

The new articles section is clear and cohesive and as there is no over information on the page it draws the viewer in.

10. Do you find the information/features/this page on this website useful to you, why/why not? *

If I visited this page it would be useful to read the articles listed and the information.

11. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

12. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★★★

Non-technical survey - Accessibility Panel Page

You are now completing a non-technical survey, the accessibility panel page could be found at the side of every page, usually on the right with a grey border and a black wheelchair icon.

21. What is your opinion on the feature that allows you to select multiple features and tick multiple checkboxes? *

I think its a great feature and allows for a more customized accessible experience.

22. Do you find the information/features/this page on this website useful to you, why? *

Very useful its easily accessible and allows multiple choices and the page is not been

23. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No its all great.

24. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★★★

Non-technical survey - Register Page

You are now completing a non-technical survey, the register page could be found on the navigation bar, on the right.

31. What is your opinion on the feature that allows you to register using the information fields provided, how did you find it, was it easy, if not why? *

Very clear and concise and obvious to where you would put the information.

32. Did you encounter any errors, if so please explain? *

No errors the page is beautifully put together.

33. Do you find the information/features>this page on this website useful to you, why? *

Yes

34. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

35. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Non-technical survey - Policy Page

You are now completing a non-technical survey, the policy page could be found on the footer, at the bottom of the page.

25. Do you find the information/features>this page on this website useful to you, why? *

The page is clear with its intentions and shows clearly the policies.

26. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

N/A

27. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Non-technical survey - Login Page

You are now completing a non-technical survey, the login page could be found on the navigation bar, on the right.

36. What is your opinion on the feature that allows you to login with the details you have registered with, how easy was it, if not why? *

Very easy and simple.

37. Do you find the information/features>this page on this website useful to you, why? *

Yes the login page was very useful for accessing information.

38. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Yes

39. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Non-technical survey - Check Air Quality Feature

You are now completing a non-technical survey, the check air quality feature can be accessed from the profile page.

50. Are you able to click on the check air quality feature and does it function correctly? (Refer to the PowerPoint) *

Yes

51. When you enter a city name, does it say the current running quality based on air quality state as well as the facts and figures? (Refer to the PowerPoint) *

Yes

52. Do you find the information/features>this page on this website useful to you, why? *

Yes

53. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

N/A

54. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Non-technical survey - Terms and Conditions Page

You are now completing a non-technical survey, the terms and conditions page could be found on the footer, at the bottom of the page.

28. Do you find the information/features>this page on this website useful to you, why? *

Yes it clearly states where the terms and conditions on the page.

29. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

A

30. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Non-technical survey - Profile Page

You are now completing a non-technical survey, the profile page can only be reached after you login successfully which then you will be redirected to.

40. What is your opinion on the feature that displays a heading saying welcome and the name the user has registered with? *

I think its a great and warm feature that makes the page seem more friendly and welcoming and it is implemented well.

41. Do you like the articles recommended for you feature, why, why not? *

Yes

42. Do you find the information/features>this page on this website useful to you, why? *

Very useful

43. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

44. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Non-technical survey - Check Weather Feature

You are now completing a non-technical survey, the check weather feature can be accessed from the profile page.

45. Are you able to click on the check weather feature and does it function correctly? (Refer to the PowerPoint) *

It functions correctly and you are able to click on it.

46. When you enter a city name, does it say the current weather state as well as the facts and figures? (Refer to the PowerPoint) *

Yes

47. Do you find the information/features>this page on this website useful to you, why? *

Its a very very useful feature and would be great for everyone.

48. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Overall a great feature that works well.

49. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Non-technical survey - Risk Assessment Page

You are now completing a non-technical survey, the risk assessment page could be found on the navigation bar.

60. Are you able to book an appointment, how did you find it, was it easy, if not why and what was the issue? (Refer to the PowerPoint) *

It is very easy to book an appointment the information is streamlined with no clutter on the page.

61. Did you encounter any errors, if so please explain? *

No errors found.

62. Do you find the information/features>this page on this website useful to you, why? *

Not useful to me as i dont want an appointment.

63. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No

64. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Non-technical survey - Overall Overview
You are now completing a non-technical survey, getting the first thoughts of what you think about the website.

65. Did you find that the icons, images, and the logo was suitable to the website and related to the brand? *

Very useful it was clear who the brand was just by the logo and all information correlates

66. What were your first impressions of this website? *

It was easy on the eye and clear concise.

67. How likely would you be inclined to return to this website? *

- very likely
- somewhat likely
- neither likely nor unlikely
- somewhat unlikely
- very unlikely

68. How likely would you recommend this website to a friend? *

- very likely
- somewhat likely
- neither likely nor unlikely
- somewhat unlikely
- very unlikely

69. Have you visited a website recently that looks similar to this one. If so, please attach a link? *

I have not

70. What features would you most like to see in future development? *

N/A

71. Please rate this website out of 5 stars (5 being the best, 1 being the worst) *

★★★★★

72. How did you find this form, was it easy and simple to complete, too long, repeated questions, any issues, or errors? *

The form was simple to complete with clear questions.

73. Any final thoughts, feedback, or comments? *

Very great website 10/10

Tester name: Taylor

Type of audience: Technical

Method of test used: Microsoft forms survey.

How the prototype was presented: Video and screenshots in a PowerPoint

Technical survey - Layout

You are now completing a technical survey, you can look through all the pages to familiarise yourself with the layout.

General Information

1. What is your name? *

Taylor Dawson

2. What course are you studying? *

Teach digital design and production

3. How old are you? *

18

4. Will you be taking the technical or non-technical survey? *

Technical survey (104 questions)

Non-technical survey (73 questions)

Technical survey - Home Page

You are now completing a technical survey, the home page could be found on the navigation bar, at the top left corner.

5.

What do you think of the layout/theme, does it go together and look cohesive, why/why not?

I like the theme, nothing much needs to be changed about it. There should be a text in your hero image to describe what's on the page. See Hospital

10. Do you find that the image at the top conveys and relates to the company and what the website is about? *

The image conveys doctors, health and pills, so yes.

6.

What do you think about the font and colours used, are they readable and easy to see, why/why not? *

The font is great, it is very easy to see, maybe make them slightly bolder

11. What do you think about the new articles section? *

Your grid should be larger (approximately 4 columns on each row) spanning with a width of 100%.

7.

What do you think of the naming of navigation bar links and footer links, are they relevant and easy to understand what the website is about? *

The font is bold which is nice. Would be nice if you made the active link the same colour as the logo. The links should also be in the centre, and regular / logo should be a button, for distinction

12. Do you find the information/features/this page on this website useful to you, why/why not? *

Not really, my health is fine.

8.

Do you like the logo, if so why, if not why and how can it be improved? *

The logo looks nice. Nothing really needs to be changed.

13. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

The accessibility button, like I said earlier, should be more visible and a different background colour (blue and white)

9.

What do you think of the accessibility panel placement? *

It is too bland and out of the way, it should be easy to see for accessibility purposes

14. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★★☆

Technical survey - Advice Page

You are now completing a technical survey, the advice page could be found on the navigation bar.

15. What is your opinion on the feature that allows you to click on the articles and direct you to the article layout page? *

That is very useful, nothing much to say.

16. What do you like, dislike and would change about the article layout page? *

The pagination at the bottom does not stand out, I can barely see it.

17. What is your opinion on the feature that allows you to switch pages between the articles at the bottom of the page? *

This is called pagination, it is very useful.

18. Do you find the information/features/this page on this website useful to you, why? *

You should make this called "articles" not "advice"

19. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

not really, apart from making your website have 3 columns on rows, not 2

20. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★★★

Technical survey - About Us Page

You are now completing a technical survey, the about us page could be found on the navigation bar.

21. Does the image resize correctly when you change the window sizes/devices? (Refer to the PowerPoint!)*

The image should have a border, and I don't know why but the image just doesn't look right.

22. Do you find that the image conveys and relates to the company and what the website is about? *

Not really, its a stethoscope with a globe.

23. Do you find the information/features/this page on this website useful to you, why? *

There is nothing on here, but if there was it would be a nice way to learn more about the company, you should also have contact links here.

24. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Again, its the accessibility panel that needs to be changed. It looks out of place, you can try use a modal when you click on the button, if that helps.

25. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★★☆

Technical survey - Accessibility Panel Page

You are now completing a technical survey, the accessibility panel page could be found at the side of every page, usually on the right with a grey border and a black wheelchair icon.

26. What is your opinion on the feature that allows you to select multiple features and tick multiple checkboxes? *

It looks very bland and disorganized. With practically no use.

27. Do you find the information/features/this page on this website useful to you, why? *

There should be more than just checkboxes on here, like font size, color, boldness, color etc.

28. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Nothing is DISLIKE. But it would be nice if you made the button colour the same as the brand icon colour, along with the checkbox colors.

29. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★★★

Technical survey - Register Page
 You are now completing a technical survey, the register page could be found on the navigation bar, on the right.

36. What is your opinion on the feature that allows you to register using the information fields provided, how did you find it, was it easy, if not why? *

Yes It looks easy, there are placeholder in the inputs which tell you end guide you.
 No It looks easy, there are placeholder in the inputs which tell you end guide you.

37. Are you able to register with non-matching information, empty fields, incorrect email format and details that have been already registered with? (Refer to the PowerPoint) *

No you cannot. Because you used bootstrap's input form validation, along with php backend validation for the password, there is possibly an explicit error.

38. What do you think of the error messages, are they clear and understandable? *

Yes they are
 No

39. Did you encounter any errors, if so please explain? *

No

40. Do you find the information/features>this page on this website useful to you, why? *

It looks like a normal page, again looks to brand, atleast try and make an image in the background so its not all white.

41. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

The button colour need to be the same colour as brand icon

42. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★

Technical survey - Terms and Conditions Page
 You are now completing a technical survey, the terms and conditions page could be found on the footer, at the bottom of the page.

33. Do you find the information/features>this page on this website useful to you, why? *

The same as the policy page

34. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

There should be atleast SOME ai generated text or forum ipsum

35. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

3

36. What is your opinion on the feature that displays a heading saying welcome and the name the user has registered with? *

That is a very nice feature

37. Are you able to click on the profile icon in the top right, and then click it again, does it return you back from the settings page to the profile page? Are you also able to logout in the settings page? (Refer to the PowerPoint) *

You can

38. What do you think about the settings page, is there any way it could be improved? *

It looks decent, nothing really to say

39. Are you able to click on the articles and does it redirect you to the article layout page? (Refer to the PowerPoint) *

Yes

40. Do you like the articles recommended for you feature, why, why not? *

Yes I like the idea of recommended articles, it gives the website a more custom feeling and it could genuinely help someone.

41. Do you find the information/features>this page on this website useful to you, why? *

Yes they are quite nice

42. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

The outcome!

43. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Technical survey - Profile Page
 You are now completing a technical survey, the profile page can only be reached after you login successfully where then you will be redirected to.

44. Are you able to login using different credentials that haven't been registered with? (Refer to the PowerPoint) *

Same as Register

45. What do you think of the error messages, are they clear and understandable? *

Same as Register

46. Do you find the information/features>this page on this website useful to you, why? *

Same as Register

47. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Same as Register

48. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Technical survey - Check Weather Feature
 You are now completing a technical survey, the check weather feature can be accessed from the profile page.

49. Are you able to click on the check weather feature and does it function correctly? (Refer to the PowerPoint) *

Yes

50. When you enter a city name, does it say the current weather state as well as the facts and figures? (Refer to the PowerPoint) *

Yes

51. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Yes

52. Do you like the articles recommended for you feature, why, why not? *

Yes I like the idea of recommended articles, it gives the website a more custom feeling and it could genuinely help someone.

53. Do you find the information/features>this page on this website useful to you, why? *

Yes they are quite nice

54. Are you able to enter different cities and view the weather for them, how accurate is it and how useful is this, does it show errors when a city is entered incorrectly? (Refer to the PowerPoint) *

Yes

55. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Yes

56. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

5

57. Are you able to click on the check weather feature and does it function correctly? (Refer to the PowerPoint) *

Yes

58. When you enter a city name, does it say the current weather state as well as the facts and figures? (Refer to the PowerPoint) *

Yes

59. Are you able to enter different cities and view the weather for them, how accurate is it and how useful is this, does it show errors when a city is entered incorrectly? (Refer to the PowerPoint) *

Yes

60. Do you find the information/features>this page on this website useful to you, why? *

Yes

61. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Colours

62. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Technical survey - Risk Assessment Page
 You are now completing a technical survey, the risk assessment page could be found on the navigation bar.

63. Are you able to click on the check air quality feature and does it function correctly? (Refer to the PowerPoint) *

No

64. When you enter a city name, does it say the current running quality based on air quality state as well as the facts and figures? (Refer to the PowerPoint) *

Yes

65. Are you able to enter different cities and view the air quality for them, how accurate is it and how useful is this, does it show errors when a city is entered incorrectly? (Refer to the PowerPoint) *

No

66. Do you find the information/features>this page on this website useful to you, why? *

No

67. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

COLOURSHH

68. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ○

69. Are you able to click on the check symptom feature and does it function correctly? (Refer to the PowerPoint) *

Yes

70. Does it show a countdown, do you like it, why/why not? *

Yes

71. Do you find the information/features>this page on this website useful to you, why? *

Yes

72. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Colours..

73. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

74. Are you able to book an appointment, how did you find it, was it easy, if not why and what was the issue? (Refer to the PowerPoint) *

No

75. Are you able to book an appointment with the exact same details, with unregistered login details, same login details with different date and time? (Refer to the PowerPoint) *

Yes

76. What do you think of the error messages, are they clear and do you like the date and time fields with the pop-up menu? *

The error messages are great. Works as intended.

77. Did you encounter any errors, if so please explain? *

No i did not

78. Do you find the information/features>this page on this website useful to you, why? *

Yes it's a nice testing

79. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

COLOURSHH

80. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ★

Technical survey - Overall Overview
 You are now completing a technical survey, gathering the first thoughts of what you think about the whole solution.

90. Did you find that the icons, images, and the logo was suitable to the website and related to the brand? *

Yes

91. What were your first impressions of this website? *

Too bland, honestly. Needs more images and colours.

92. How likely would you be inclined to return to this website? *

Very likely
 Somewhat likely
 Neither likely nor unlikely
 Somewhat unlikely
 Very unlikely

93. How likely would you recommend this website to a friend? *

Very likely
 Somewhat likely
 Neither likely nor unlikely
 Somewhat unlikely
 Very unlikely

94. Have you visited a website recently that looks similar to this one, if so, please attach a link? *

No

95. What features would you most like to see in future development? *

Actual development on the temporary tests.

96. Did you find the website web responsive for your device, if not, please explain? (Refer to the PowerPoint) *

Yes

97. How was your user experience while navigating through the website, was it smooth? (Refer to the PowerPoint) *

Yes

98. Did you find all the links to be working and clickable, was anything out of order, layout? (Refer to the PowerPoint) *

Yes

99. Did this website render the images correctly and how efficient is the response time, did you have any issues? (Refer to the PowerPoint) *

Yes, the response time is ok, although it would be because its on localhost.

100. Do you believe that this website follows the General Data Protection Regulation guidelines, Web Content Accessibility Guidelines, policies/codes and is accessible to different audiences; why/why not/how can it be improved? *

I believe so; Although you should add a "do you accept the cookies" up after you go on the page.

101. Were you able to find any bugs/issues, if so what are they? *

No

102. Please rate this website out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

103. How did you find this form, was it easy and simple to complete, too long, repeated questions, any issues, or errors? *

repeated questions, you messed up the "Please rate this website out of 5 stars" part.

104. Any final thoughts, feedback, or comments? *

Nothing. It is a good job done.

Tester name: Taya

Type of audience: Non-technical

Method of test used: Microsoft forms survey.

How the prototype was presented: Video and screenshots in a PowerPoint

Non-technical survey - Layout
 You are now completing a non-technical survey, you can look through all the pages to familiarise yourself with the layout.

1. What is your name? *

Tya Nash

2. What course are you studying? *

Art lit 1

3. How old are you? *

17

4. Will you be taking the technical or non-technical survey? *

Technical survey (104 questions)
 Non-technical survey (73 questions)

5. What do you think of the layout/theme, does it go together and look cohesive, why/why not? *

I think it looks cohesive yes, it's also formatted in a simple and easy way to understand what you're looking at/where you currently are on the site.

6. What do you think about the font and colours used, are they readable and easy to see, why/why not? *

Yeah the font is very easy to read and the colours stand out with the black and white and the blue is a nice pop

7. Do you like the logo, if so why, if not why and how can it be improved? *

No I like the logo, it's simple and easy to read

8. What do you think of the accessibility panel placement? *

I didn't notice it immediately until I scrolled through the video again, it's a bit difficult to see

9. What do you think about the new articles section? *

It looks fine

10. Do you find the information/features>this page on this website useful to you, why/why not? *

It's fine

11. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Add more articles to fill out empty space on home page, it'd be easier to access and people come to this website via the adsway articles

12. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Advice Page

You are now completing a non-technical survey, the advice page could be found on the navigation bar.

13. What is your opinion on the feature that allows you to switch pages between the articles at the bottom of the page? *

it works and you kinda need it otherwise you can't see the rest of the articles

14. Do you find the information/features/this page on this website useful to you, why? *

it's where all of the main stuff about health issues is uploaded so yes

15. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

no

16. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - About Us Page

You are now completing a non-technical survey, the about us page could be found on the navigation bar.

17. Do you find that the image conveys and relates to the company and what the website is about? *

yes because it's a stethoscope which is very quickly related to health

18. Do you find the information/features/this page on this website useful to you, why? *

well yes because it tells you about the group/charity

19. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

no

20. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Accessibility Panel Page

You are now completing a non-technical survey, the accessibility panel page could be found at the side of every page, usually on the right with a grey border and a black wheelchair icon.

21. What is your opinion on the feature that allows you to select multiple features and tick multiple checkboxes? *

it's helpful as an autistic person

22. Do you find the information/features/this page on this website useful to you, why? *

yes it would be helpful for people who struggle with certain things like visually impaired and stuff like that

23. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

no

24. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Register Page

You are now completing a non-technical survey, the register page could be found on the navigation bar, on the right.

31. What is your opinion on the feature that allows you to register using the information fields provided, how did you find it, was it easy, if not why? *

yes it was easy to find and easy to use

32. Did you encounter any errors, if so please explain? *

no

33. Do you find the information/features/this page on this website useful to you, why? *

if it's useful to everyone

34. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

no

35. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Policy Page

You are now completing a non-technical survey, the policy page could be found on the footer, at the bottom of the page.

25. Do you find the information/features/this page on this website useful to you, why? *

i mean you would need a t&c policy to yes

26. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

i don't read terms and conditions so not personally

27. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Profile Page

You are now completing a non-technical survey, the profile page can only be reached after you log in successfully which then you will be redirected to.

40. What is your opinion on the feature that displays a heading saying welcome and the name the user has registered with? *

i mean it's alright

41. Do you like the articles recommended for you feature, why, why not? *

yeah i think it's really cool

42. Do you find the information/features/this page on this website useful to you, why? *

yeah it's easy to read and i know where i'd be going

43. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

no

44. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Check Weather Feature

You are now completing a non-technical survey, the check weather feature can be accessed from the profile page.

45. Are you able to click on the check weather feature and does it function correctly? (Refer to the PowerPoint) *

yes it functions properly

46. When you enter a city name, does it say the current weather state as well as the facts and figures? (Refer to the PowerPoint) *

yes

47. Do you find the information/features/this page on this website useful to you, why? *

just check weather app

48. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

no

49. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Check Air Quality Feature

You are now completing a non-technical survey, the check air quality feature can be accessed from the profile page.

50. Are you able to click on the check air quality feature and does it function correctly? (Refer to the PowerPoint) *

yes

51. When you enter a city name, does it say the current running quality based on air quality state as well as the facts and figures? (Refer to the PowerPoint) *

yes

52. Do you find the information/features/this page on this website useful to you, why? *

i'm not personally affected by this but it's cool

53. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

no

54. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Check Symptom Feature

You are now completing a non-technical survey, the check symptoms feature can be accessed from the profile page.

55. Are you able to click on the check symptom feature and does it function correctly? (Refer to the PowerPoint) *

yes

56. Does it show a countdown, do you like it, why/why not? *

yes

57. Do you find the information/features/this page on this website useful to you, why? *

i don't know

58. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

no

59. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Risk Assessment Page

You are now completing a non-technical survey, the risk assessment page could be found on the navigation bar.

60. Are you able to book an appointment, how did you find it, was it easy, if not why and what was the issue? (Refer to the PowerPoint) *

yes it was easy

61. Did you encounter any errors, if so please explain? *

no

62. Do you find the information/features/this page on this website useful to you, why? *

not really

63. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

no

64. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ☆ ☆

Non-technical survey - Overall Overview
 You are now completing a non-technical survey, gathering the final thoughts of what you think about the white solution.

65. Did you find that the icons, images, and the logo was suitable to the website and related to the brand? *

yes

66. What were your first impressions of this website? *

I think it looked good, it was simple and easy to navigate and understand

67. How likely would you be inclined to return to this website? *

Very likely
 Somewhat likely
 Neither likely nor unlikely
 Somewhat unlikely
 Very unlikely

68. How likely would you recommend this website to a friend? *

Very likely
 Somewhat likely
 Neither likely nor unlikely
 Somewhat unlikely
 Very unlikely

69. Have you visited a website recently that looks similar to this one, if so, please attach a link? *

no

70. What features would you most like to see in future development? *

change the "articles" to "advice"

71. Please rate this website out of 5 stars (5 being the best, 1 being the worst) *

★★★☆☆

72. How did you find this form, was it easy and simple to complete, too long, repeated questions, any issues, or errors? *

It was okay

73. Any final thoughts, feedback, or comments? *

no

Tester name: Roddick

Type of audience: Technical

Method of test used: Microsoft forms survey.

How the prototype was presented: Video and screenshots in a PowerPoint

Technical survey - Layout
 You are now completing a technical survey, you can look through all the pages to familiarize yourself with the layout.

5. What do you think of the layout/theme, does it go together and look cohesive, why/why not? *

I think the overall layout of the website is simple and consistent, with only the exception of the about page that looks slightly out of the ordinary. However, I also think that while it looks nice overall, some of the pages have a bit too many white spaces, which I think makes the website look a bit empty.

6. What do you think about the font and colours used, are they readable and easy to see, why/why not? *

The fonts and colours of the website is great as the dark pastel colours combined with white and black makes it look aesthetically pleasing to look at.
 The font is also clear and readable which makes it easier for users to read the content.

7. What do you think of the naming of navigation bar links and footer links, are they relevant and easy to understand what the website is about? *

I think they are relevant and clearly shows what the website is about.

8. Do you like the logo, if so why, if not why and how can it be improved? *

I think the logo is nice as it clearly shows that the website is something about health, while also showing the company's full name.

9. What do you think of the accessibility panel placement? *

I think the placement has no problems, but the colours might make it look hard to read as a black icon on a white background would make it slightly hard to figure out what the panel is for. I think changing the colour to something like red and white or grey and white would make it more noticeable.

10. Do you find that the image at the top conveys and relates to the company and what the website is about? *

Yes, I think the image makes the website feels more official as a health website.

11. What do you think about the new articles section? *

The new articles section is very useful for users as they can read articles immediately without having to go to the dedicated advice pages.

12. Do you find the information/features/this page on this website useful to you, why/why not? *

I find the articles useful, but if I was a normal user, I would have no clue what the website is actually about other than the fact that it has something to do with health.

13. Is there any feature you particularly like, dislike, would like to change, have an issue with or have any comments/suggestions regarding to? *

I think for the articles a nice improvement would be to add a feature or make the image have some text at the bottom where users can perceive the article.
 Another great addition would be more section briefly describing what the website is about, just sop that users can immediately know what they can get out of the website and by extension the company's services.

14. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★★★☆☆

Technical survey - Advice Page

You are now completing a technical survey, the advice page could be found on the navigation bar.

15. What is your opinion on the feature that allows you to click on the articles and direct you to the article layout page? *

I think it is nice and straight forward. Nothing more to say.

16. What do you like, dislike and would change about the article layout page? *

I think the overall layout is fine, but I think more feedback could be given if there is an example of what a full article would look like.

17. What is your opinion on the feature that allows you to switch pages between the articles at the bottom of the page? *

It's a great feature as it allows the page to be minimalist while also supporting a large number of content.

18. Do you find the information/features/this page on this website useful to you, why? *

I think the information is displayed in a straightforward way, no problems there.

19. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

An example of an article would be just to see what the completed page would look like. Also the search bar to search for specific articles or a group of articles would be useful for users.

20. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Technical survey - About Us Page

You are now completing a technical survey, the about us page could be found on the navigation bar.

21. Does the image resize correctly when you change the window sizes/devices? (Refer to the PowerPoint) *

The image does indeed resize, but it gets cut off for some sections of it, so it makes the page looks incomplete.

22. Do you find that the image conveys and relates to the company and what the website is about? *

Yes.

23. Do you find the information/features/this page on this website useful to you, why? *

I think the about us would be text and image next to it is enough useful information for the user to find out what the website and company is about.

24. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

The image might be better at the top like a hero image instead of on the side as it somewhat clashes with the home and articles page layout.

25. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Technical survey - Accessibility Panel Page

You are now completing a technical survey, the accessibility panel page could be found at the side of every page, usually on the right with a grey border and a black wheelchair icon.

26. What is your opinion on the feature that allows you to select multiple features and tick multiple checkboxes? *

I think it is great that it allows for multiple boxes to be ticked as some people might have more than one disability, allowing the website to cater for more audience.

27. Do you find the information/features/this page on this website useful to you, why? *

Once the panel is complete I think it would be very useful as it allows for a wide range of audience to use the site.

28. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Adding an small "I" icon that will show a pop up of how each disability will be catered might be nice as it shows the audience what they will be assisted with e.g. text reader, contrast colour scheme etc.

29. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Technical survey - Register Page

You are now completing a technical survey, the register page could be found on the navigation bar, on the right.

36. What is your opinion on the feature that allows you to register using the information fields provided, how did you find it, was it easy, if not why? *

I think the registration process is nice and straight forward. No problems there.

37. Are you able to register with non-matching information, empty fields, incorrect email format and details that have been already registered with? (Refer to the PowerPoint) *

I think the validation of the website is good and would catch most common user errors and mistakes.

38. What do you think of the error messages, are they clear and understandable? *

Yes.

39. Did you encounter any errors, if so please explain? *

None from the previous.

40. Do you find the information/features/this page on this website useful to you, why? *

I think the register form is nice and straight forward enough that anyone can create an account without any problems.

41. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I think the the confirm password field as it allows the user to properly make sure that they input what they think they input as a password though don't know if it's a good idea to put the confirm password as another field in the SQL.

The only other downside is the validation for incorrect data for things such as passwords that do not match. I think it would be better if they were displayed either on the form or somewhere above just to make the experience more smooth instead of being constantly redirected for every incorrect information.

42. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Technical survey - Profile Page

You are now completing a technical survey, the profile page can only be reached after you log in successfully which then you will be redirected to.

49. What is your opinion on the feature that displays a heading saying welcome and the name the user has registered with? *

I think it is a good feature as it makes you feel like you are a customer of the company instead of just creating another account at another website.

50. Are you able to click on the profile icon in the top right, and then click it again, does it return you back from the settings page to the profile page? Are you also able to logout in the settings page? (Refer to the PowerPoint) *

Yes

51. What do you think about the settings page, is there any way it could be improved? *

I think specifying what each setting does would be helpful as it shows to the user what they can customise with their account, but other than that the features looks good.

52. Are you able to click on the articles and does it redirect you to the article layout page? (Refer to the PowerPoint) *

Yes

53. Do you like the articles recommended for you feature, why, why not? *

Yes as it allows the user to have fresh new content every time they go to the website and log into their account.

54. Do you find the information/features/this page on this website useful to you, why? *

Yes because it shows me all the information I need from the website, though it would be nice for the risk assessment would somehow be included in the profile page as a booking reminder of sorts.

55. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

Other than the empty white space that could be filled with content I think it is good.

Technical survey - Login Page

You are now completing a technical survey, the login page could be found on the navigation bar, on the right.

43. What is your opinion on the feature that allows you to login with the details you have registered with, how easy was it, if not why? *

I think the login process is nice and simple.

44. Are you able to login using different credentials that haven't been registered with? (Refer to the PowerPoint) *

No, since the login system has a good validation securing the process.

45. What do you think of the error messages, are they clear and understandable? *

Yes, the error message is appropriate since it is the same on used by other websites so uses should be able to tell what went wrong during the login process.

46. Do you find the information/features/this page on this website useful to you, why? *

I think the register form is nice and straight forward enough that anyone can create an account without any problems.

47. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

For the validation for incorrect data I think it would be better if they were displayed either on the form or somewhere above just to make the experience more smooth instead of being constantly redirected for every incorrect information.

48. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Technical survey - Check Weather Feature

You are now completing a technical survey, the check weather feature can be accessed from the profile page.

57. Are you able to click on the check weather feature and does it function correctly? (Refer to the PowerPoint) *

Yes

58. When you enter a city name, does it say the current weather state as well as the facts and figures? (Refer to the PowerPoint) *

Yes

59. Are you able to enter different cities and view the weather for them, how accurate is it and how useful is this, does it show errors when a city is entered incorrectly? (Refer to the PowerPoint) *

The page does show different cities and validates and tells the user if they entered and incorrect city.

60. Do you find the information/features/this page on this website useful to you, why? *

Yes since it shows not only humidity and pressure but also advice for what I should do with the weather, which would be very useful and is very relevant to the company.

61. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I think the the forecast part of the page only shows the current weather, but not the forecast. I think it would be very useful to show the forecast as it helps the user with planning for the future.

Also I think it would be better for the user to only do cities/towns instead of whole countries as people are more likely to search for their local weather rather than their national weather.

62. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

★ ★ ★ ★ ☆

Technical survey - Check Air Quality Feature
 You are now completing a technical survey, the check air quality feature can be accessed from the profile page.

63. Are you able to click on the check air quality feature and does it function correctly? (Refer to the PowerPoint)*

Yes
 No

64. When you enter a city name, does it say the current running quality based on air quality state as well as the facts and figures? (Refer to the PowerPoint)*

Yes
 No

65. Are you able to enter different cities and view the air quality for them, how accurate is it and how useful is this, does it show errors when a city is entered incorrectly? (Refer to the PowerPoint)*

I do know when a city is named incorrectly, but for some reason it accepted error as a city. I don't know if there is a city named error, but I don't think that happens.

66. Do you find information/features/this page on this website useful to you, why? *

Partially, because the AQI score is there and visible, but I think the advisor could have a bit more to the advice such as what people with asthma. It would also be nice to show the different pollution there are in the air just to break down what is polluting the atmosphere at the moment.

67. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I think I have said everything.

68. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Check Symptom Feature
 You are now completing a technical survey, the check symptoms feature can be accessed from the profile page.

69. Are you able to click on the check symptom feature and does it function correctly? (Refer to the PowerPoint)*

Yes
 No

70. Does it show a countdown, do you like it, why/why not? *

I do like it as it shows that the feature is being worked on and we have a time span of when it is likely to be implemented.

71. Do you find the information/features/this page on this website useful to you, why? *

Yes, as it shows that the feature is being worked on and we have a time span of when it is likely to be implemented.

72. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

No comment.

73. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Risk Assessment Page
 You are now completing a technical survey, the risk assessment page could be found on the navigation bar.

74. Are you able to book an appointment, how did you find it; was it easy, if not why and what was the issue? (Refer to the PowerPoint)*

I think the appointment process is very simple and straight forward, though the fact that I need to have an account might be a bit of a throw off for some people, but on the other hand it is good for security reasons and allow workload to be easily managed.

75. Are you able to book an appointment with the exact same details, with unregistered login details, same login details with different dates and time? (Refer to the PowerPoint)*

No, it rejects login details that does not exist.

76. What do you think of the error messages, are they clear and do you like the date and time fields with the pop-up menu? *

I think the error message are clear and the pop up menu for date and time is quite nice.

77. Did you encounter any errors, if so please explain? *

None at the moment.

78. Do you find the information/features/this page on this website useful to you, why? *

Yes, as it displays everything I need from a booking form and it is very easy to use for people who are not good with tech.

79. Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to? *

I think the error message would be more useful at the top of the form rather than sending you to a another page.

80. Please rate this page out of 5 stars (5 being the best, 1 being the worst) *

Technical survey - Overall Overview
 You are now completing a technical survey, gathering the first thoughts of what you think about the whole solution.

90. Did you find that the icons, images, and the logo was suitable to the website and related to the brand? *

Yes
 No

91. What were your first impressions of this website? *

It is very simple and clean, though there are quite a lot of white spaces.

92. How likely would you be inclined to return to this website? *

Very likely
 Somewhat likely
 Neither likely nor unlikely
 Somewhat unlikely
 Very unlikely

93. How likely would you recommend this website to a friend? *

Very likely
 Somewhat likely
 Neither likely nor unlikely
 Somewhat unlikely
 Very unlikely

94. Have you visited a website recently that looks similar to this one, if so, please attach a link? *

No

95. What features would you most like to see in future development? *

Future weather forecasting and an article with example content.

96. Did you find the website web responsive for your device, if not, please explain? (Refer to the PowerPoint)*

It seems responsive from the video.

97. How was your user experience while navigating through the website, was it smooth? (Refer to the PowerPoint)*

Seems to be.

98. Did you find all the links to be working and clickable, was anything out of order, layout? (Refer to the PowerPoint)*

Yes
 No

99. Did this website render the images correctly and how efficient is the response time, did you have any issues? (Refer to the PowerPoint)*

Yes
 No

100. Do you believe that this website follows the General Data Protection Regulation guidelines, Web Content Accessibility Guidelines, policies/cookies and is accessible to different audiences, why/why not/how can it be improved? *

I don't know if the website has cookies, but I think it follows all the other guidelines.

101. Were you able to find any bugs/issues, if so what are they? *

Only the air-quality one with error as a city.

102. Please rate this website out of 5 stars (5 being the best, 1 being the worst) *

103. How did you find this form, was it easy and simple to complete, too long, repeated questions, any issues, or errors? *

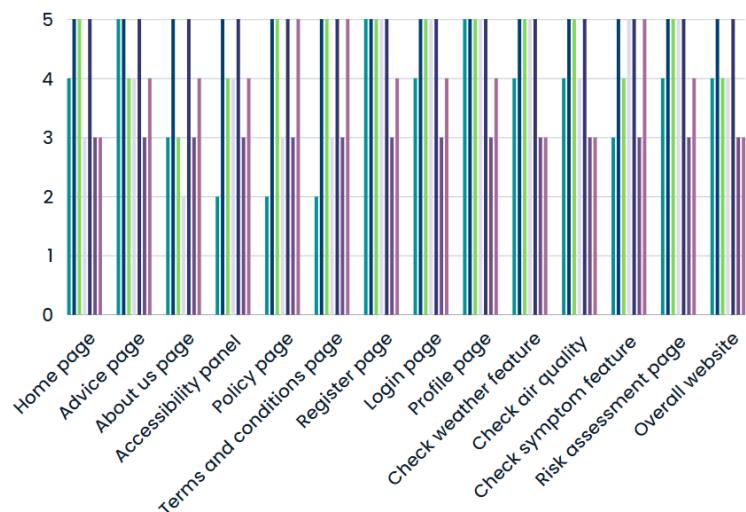
I think the form is quite long and some questions could probably be changed to yes/no. The repetitiveness is alright since it's a feedback for a website, but overall I think the form would give good feedback but could have been shorter or changed in some areas.

104. Any final thoughts, feedback, or comments? *

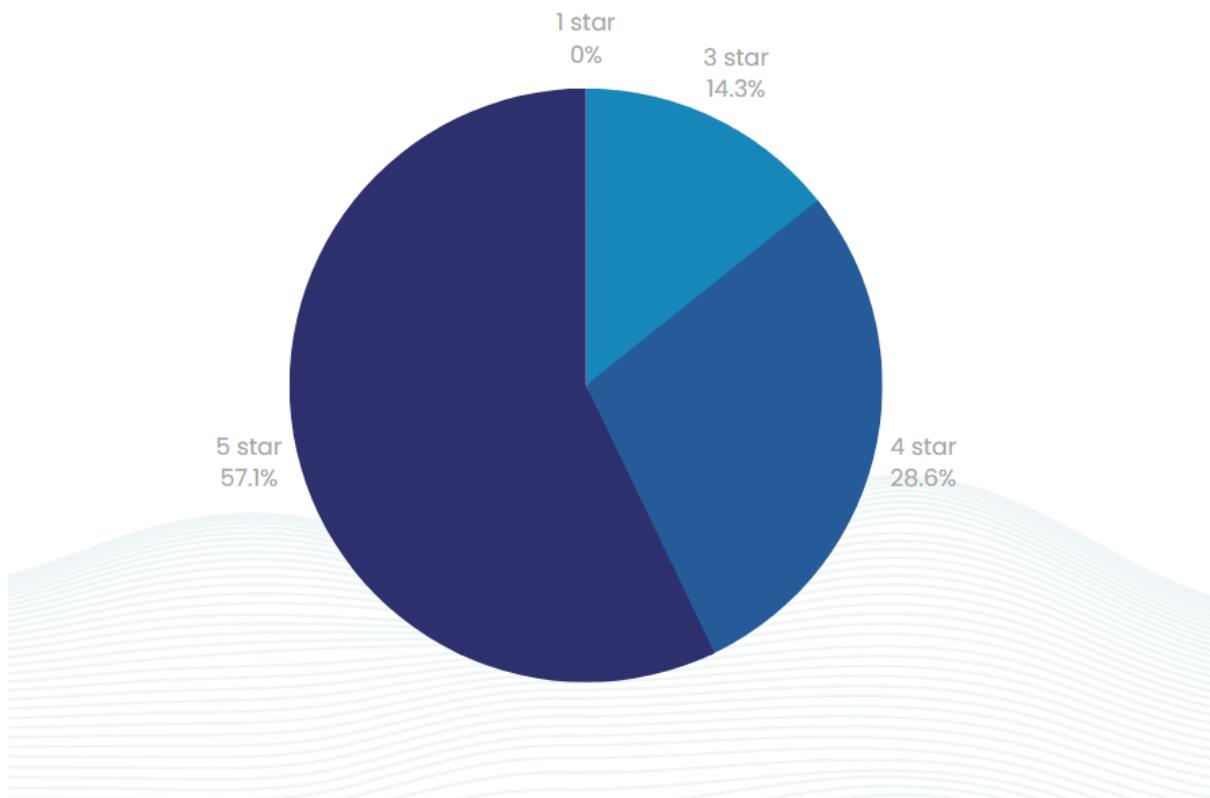
None

Diagrams of Feedback Received (made using Canva):

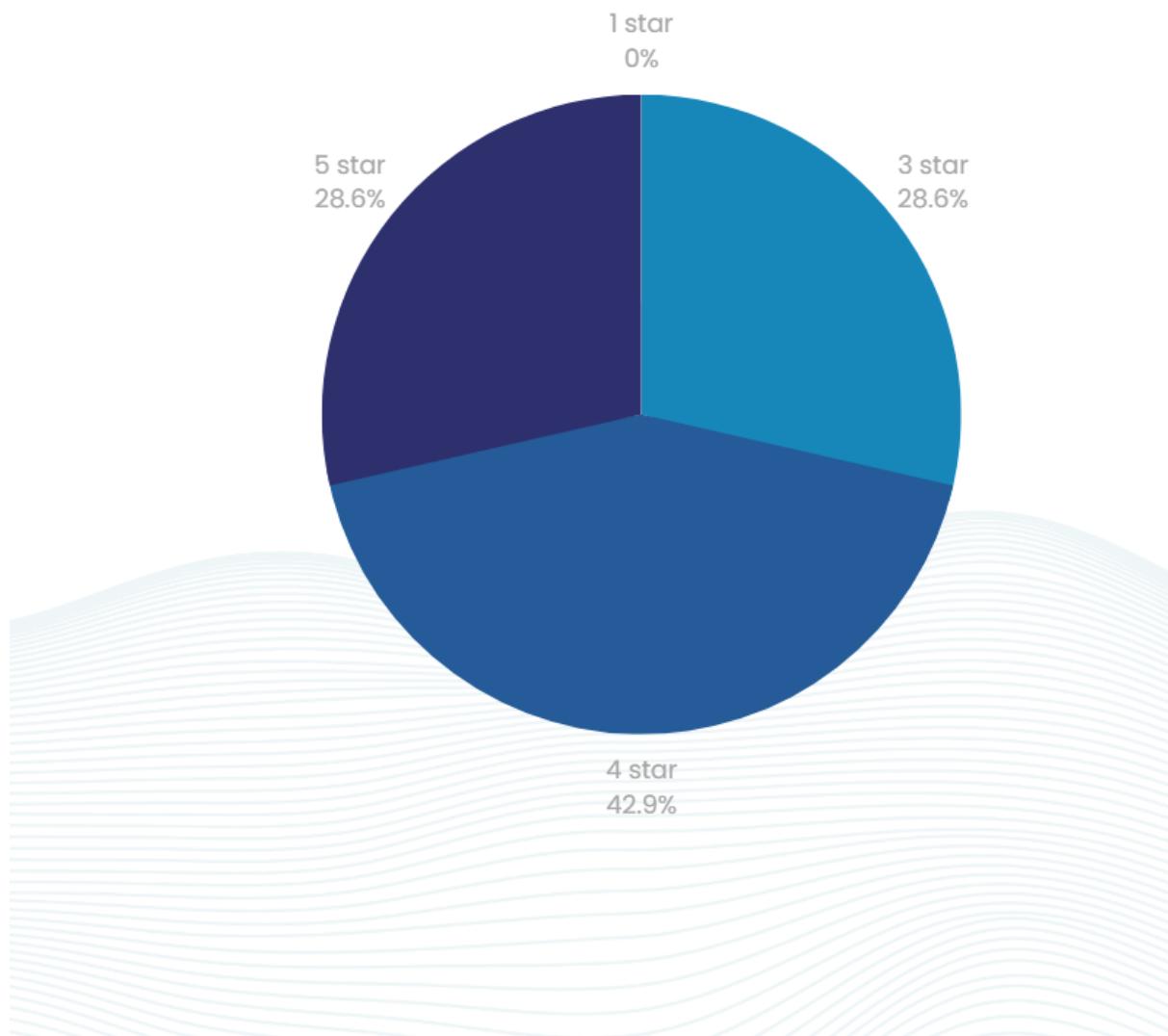
HEALTH ADVICE GROUP RATINGS



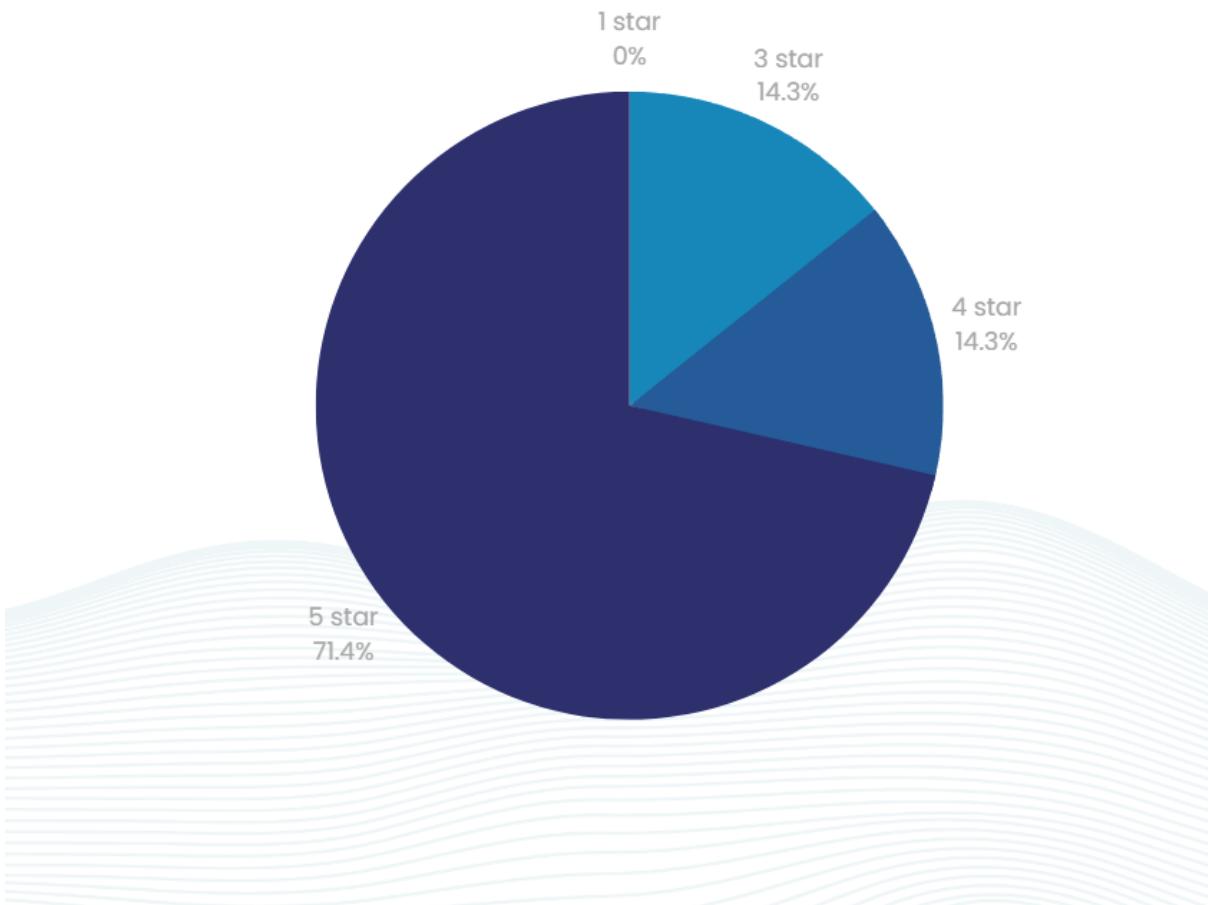
Risk Assessment Page Ratings



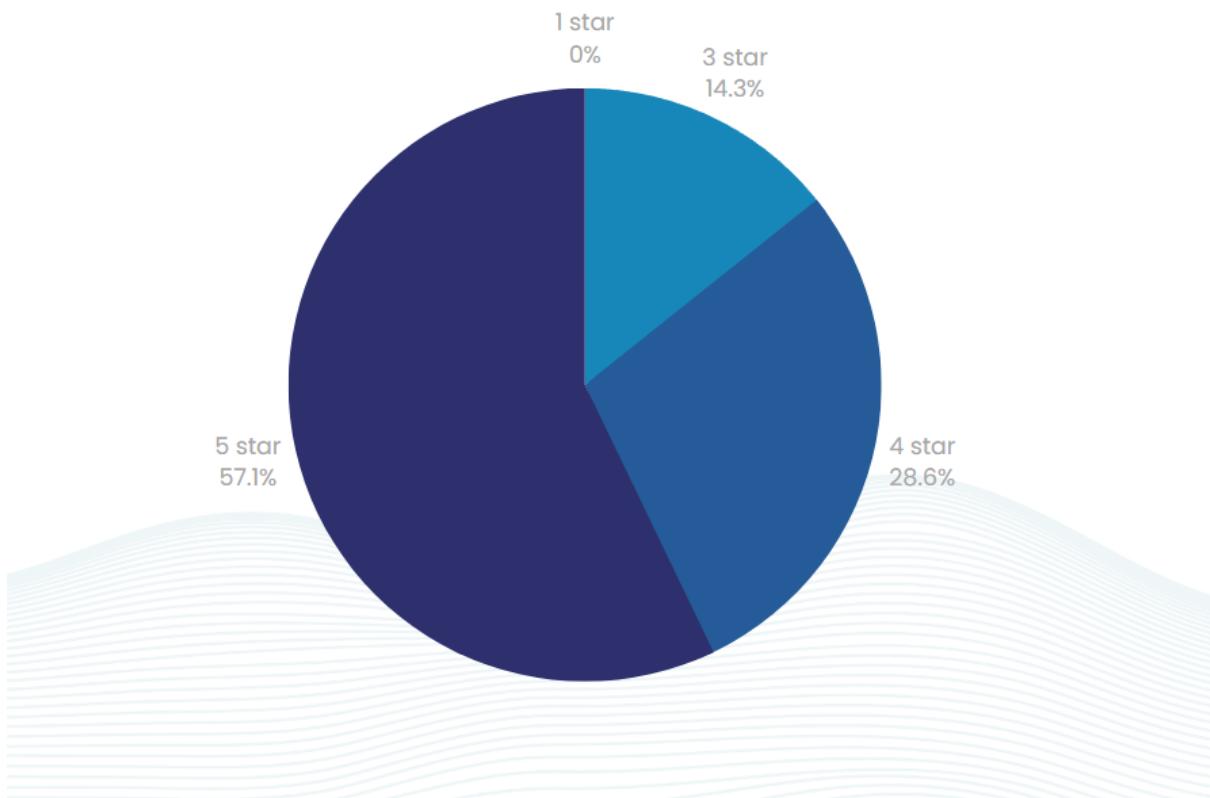
Overall Website Ratings



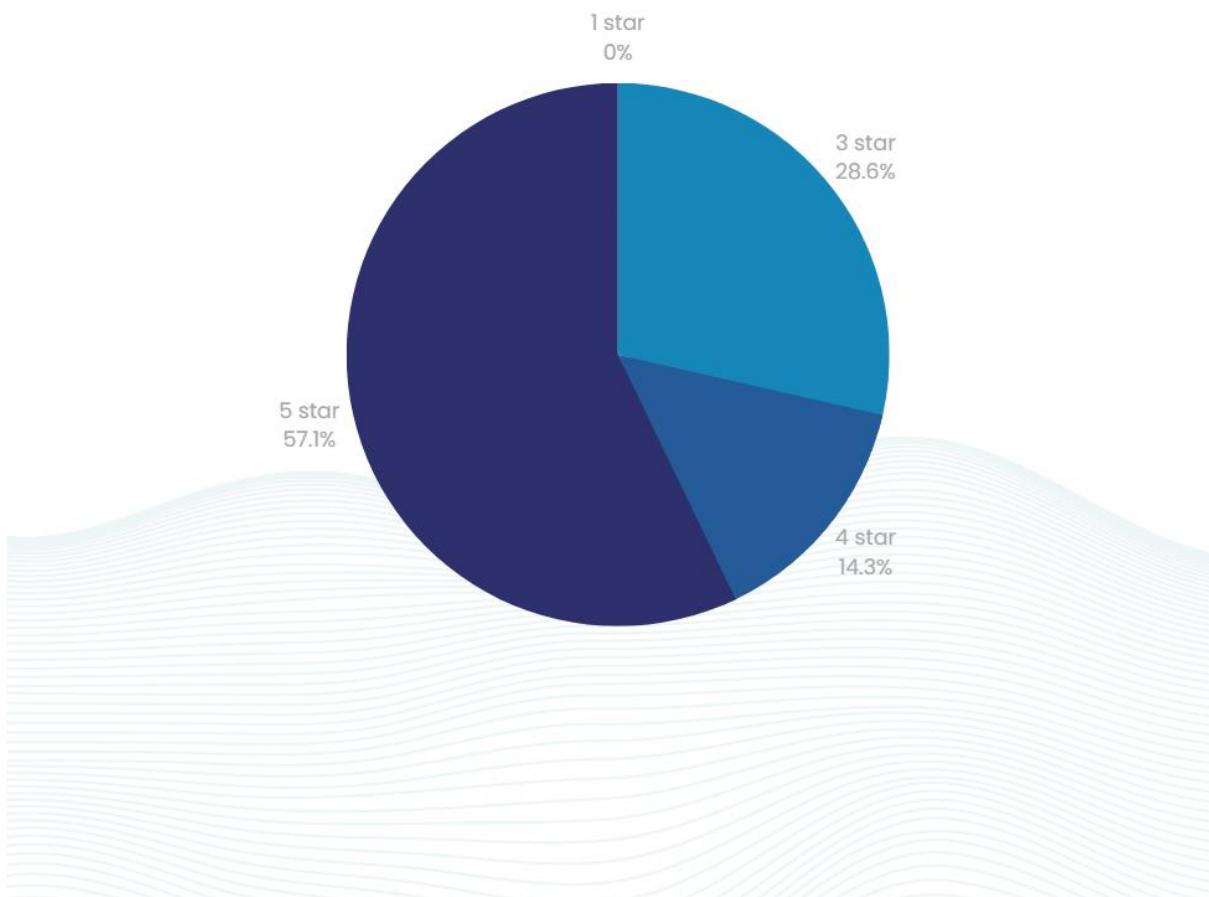
Register Page Ratings



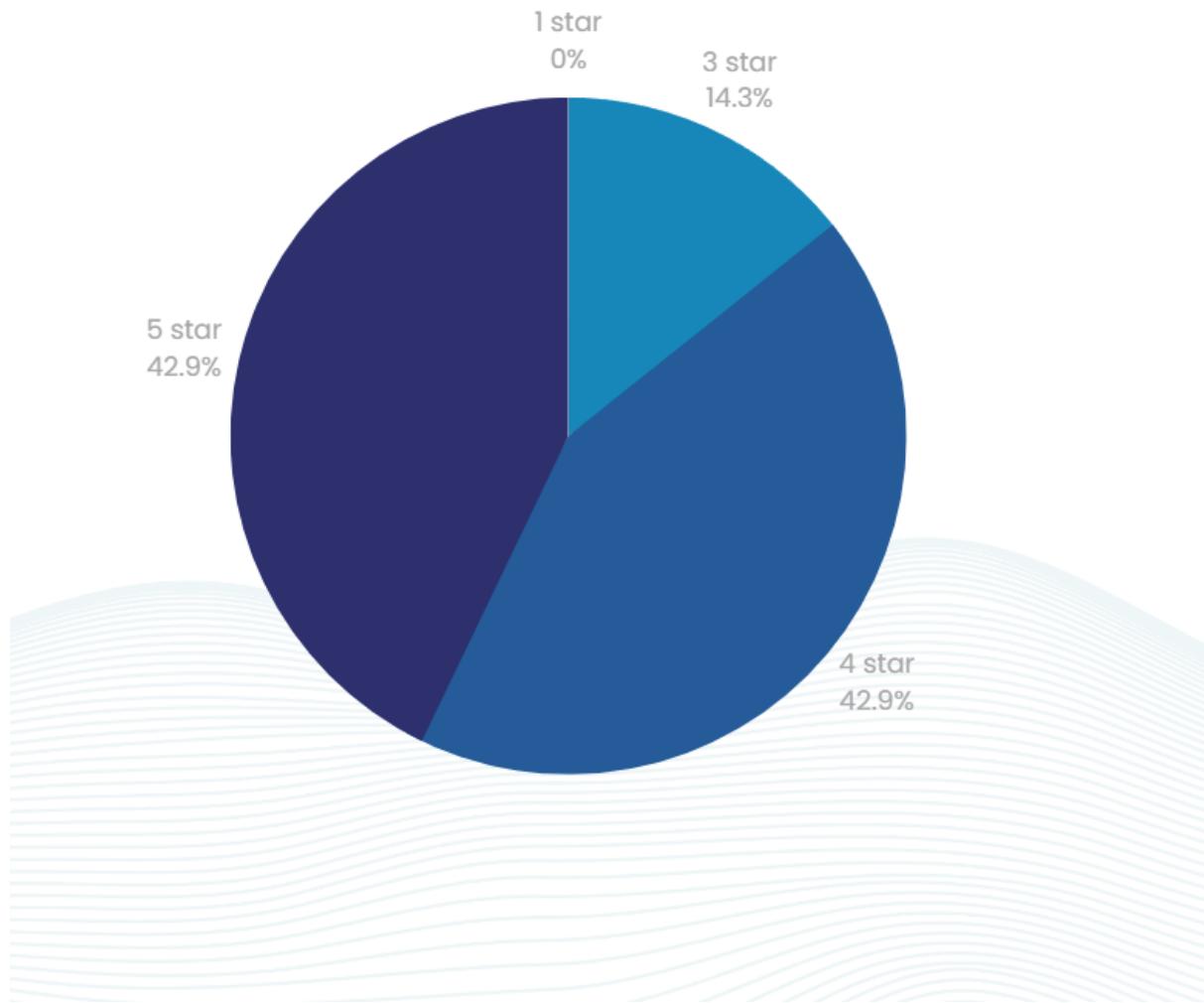
Risk Assessment Page Ratings



Check Weather Feature Ratings



Advice Page Ratings



Issues Occurred and Their Solutions (please note that there are filler fields to show which page is being talked about and these will be marked in a blue box and made bold):

Name:	Type of Audience:	Issue occurred/preference:	Solution to the issue:
Overall Layout	Overall Layout	Overall Layout	Overall Layout
Kintija	Non-technical	'Health Advice Group' text on the logo can be a bit bolder	Make the text bold for the logo and increase the logo size on the navigation bar. This is done by editing the logo on the logo maker site and then adjusting height and width size.
Kintija	Non-technical	Hard to find the accessibility panel.	Change the accessibility panel colour to make it a lot more visible such as a blue colour by editing the CSS in

			all my HTML files, increase the size of the button by increasing width and height pixels in all my HTML files and maybe make it stick on the page when the user scrolls using the sticky attribute in the position CSS in the overall HTML.
Callum	Technical	Hard to find the accessibility panel since it's not named, and the icon can be mistaken as a small photo.	Change the accessibility panel colour to make it a lot more visible such as a bright blue colour similar to the logo, by editing the CSS in all my HTML files, increase the size of the button by increase the height and width pixels on the HTML and maybe make it stick on the page when the user scrolls by adjusting the position attribute to set it to sticky in the HTML and CSS. I could also name the accessibility panel above the logo in the button along with having an icon.
Taylor	Technical	Preference of having text in the hero image to describe what's on the page.	Adding a description to all of the pages to describe what's on the page since people can struggle to understand what it is about. This will be done by making a div and putting a paragraph in it which would be the description and make it 100vw to make it stay on the page and then adjusting the display to flex and the position to be centered.
Taylor	Technical	Preference of making the font slightly bolder.	I will need to increase the size of the text and make it bolder for people to see easier. This will be done by adding a bold attribute to the content which will be ' ' tag.
Taylor	Technical	Preference of making the active link that the user is on, the same colour as the logo and the links should be	I will need to change the link colours to more match the logo in the HTML and this can be done by editing all

		more centred and the register/login links should be more of a button for distinction.	the background colours of the links on every HTML page to show the ones that are being clicked on and preferably centre them using the position attribute to make it easier for people to find them as well as make the register and login links to buttons with colours to match the layout which can be done by removing the link attribute and adding a button instead.
Taylor	Technical	The accessibility panel is too bland and out of the way, it should be easier to see for accessibility purposes.	Change the accessibility panel colour to make it a lot more visible such as a bright blue colour similar to the logo, by editing the CSS in all my HTML files, increase the size of the button by increase the height and width pixels on the HTML and maybe make it stick on the page when the user scrolls by adjusting the position attribute to set it to sticky in the HTML and CSS. I could also name the accessibility panel above the logo in the button along with having an icon.
Pippa	Non-technical	The font is too small and difficult to read.	Increase the text size and add a bold attribute to the text using ' ' in the HTML.
Taya	Non-technical	Didn't notice the accessibility panel immediately and a bit difficult to see.	Change the accessibility panel colour to make it a lot more visible such as a bright blue colour similar to the logo, by editing the CSS in all my HTML files, increase the size of the button by increase the height and width pixels on the HTML and maybe make it stick on the page when the user scrolls by adjusting the position attribute to set it to sticky in the HTML and CSS. I could also name the

			accessibility panel above the logo in the button along with having an icon.
Roddick	Technical	Too much white space on different pages making the website look empty.	Change the background colour on every page so this would be the body of all the HTML pages, add different features to different pages to fill out the white space such as more new articles and make the website a bit smaller in height so it's not as tall by decreasing main attribute height in pixels.
Roddick	Technical	The colours of the accessibility panel make it hard to read and slightly hard to figure out what the panel is for.	Change the accessibility panel colour to make it a lot more visible such as a bright blue colour similar to the logo, by editing the CSS in all my HTML files, increase the size of the button by increase the height and width pixels on the HTML and maybe make it stick on the page when the user scrolls by adjusting the position attribute to set it to sticky in the HTML and CSS. I could also name the accessibility panel above the logo in the button along with having an icon.
Home Page	Home Page	Home Page	Home Page
Kintija	Non-technical	Home page looks very plain	Remove the whitespace and add more features to compensate for the white space. This would be more new articles and decrease the height of the page using the main in pixels.
Kintija	Non-technical	Suggests having a description about the article before clicking on it.	Adding a description for the article so the user's know what to click on. This would be by creating a div, putting a paragraph into it and then setting the display as flex and justify content to centre.
Raya	Non-technical	Would prefer if the articles were included as well and not just placeholders	I can use sample articles from the internet to show how articles would look like

			until the articles have been written by the employees. This would be found from the internet and the images would be replaced with whatever image is found.
Taylor	Technical	The grid should be larger for the new articles section.	Increase the grid size by increasing the amount of rows and columns and adding more articles options.
Taya	Non-technical	Prefer if more articles were added to fill out empty spaces on the home page since it would be easier to access.	I will add more articles to fill out the white space and not make it look as empty. This would be done by adding more rows and columns and then copy pasting the information from previous articles and then changing the article name.
Roddick	Technical	If they were a normal user, they would have no clue what the website is actually about.	Add more descriptions of each page as well as adding a description to different features such as the new articles section. Clearer instructions will need to be added too. This would be by creating a div, putting a paragraph into it and then setting the display as flex and justify content to centre.
Roddick	Technical	Would prefer a feature with some text at the bottom where users could preview the articles. Would also prefer if there was a section describing what the website is about and what they can get out of the company.	Adding more descriptions, preview options for articles and a summary of what the website can do for the user. This would be by creating a div, putting a paragraph into it and then setting the display as flex and justify content to centre.
Advice Page	Advice Page	Advice Page	Advice Page
Taylor	Technical	The pagination at the bottom does not stand out and they can barely see it.	Increase the pagination at the bottom so it's easier for people to switch article pages. This would be just increasing the pagination height and width in pixels in Bootstrap.

Taylor	Technical	Preferred if the website link was called articles instead of advice.	Change the advice link to say articles instead since it's a lot clearer. This would be done on each HTML page to make it say 'articles' where it includes the advice link.
Taylor	Technical	Preferred if the website had 3 columns on rows and not 2.	Change the columns amount in the rows to display the information better.
Roddick	Technical	Said more feedback could be given if there was an example of what a full article would look like.	Edit the article layout page to include sample text of how an article would look like. This would be adding more images using Bootstrap adding image features and renaming the articles in every column.
Roddick	Technical	Would prefer if there was a search bar to search for specific articles which would be useful.	Adding a search bar to search for different articles using PHP and HTML and a filter option. This would have to be thoroughly coded through by adding filtering options.
About Us Page	About Us Page	About Us Page	About Us Page
Taylor	Technical	The image should have a border and the image doesn't 'look right'.	Add a border to the image using Bootstrap and test the image with more people to see what can be improved as well as possibly changing the image and the placement of it.
Taylor	Technical	There is nothing on the site so it isn't useful and there should be contact links.	Add a sample about me answer to the about me page using a div, paragraph inside of it and then setting display to flex and justify content to centre to show what it would look like with a lot of information as well as adding contact information so users can contact the company with any queries or issues.
Roddick	Technical	Would prefer if the image was better optimised since it gets cut off at some sections which makes the page look incomplete.	Work on resizing the image using divs where the image is and setting a max height and max width without cutting off issues.
Roddick	Technical	Would prefer if the image was at the top like a hero	Move the image to be at the top so it wouldn't collide

		image instead of on the side since it clashes with the home and articles page layout.	with the other attributes. This would be moving the div, setting the width to 100vw and then testing it.
Accessibility Panel Page	Accessibility Panel Page	Accessibility Panel Page	Accessibility Panel Page
Kintja	Non-technical	Checkboxes are quite small and hard to read.	Increase the feature size along with the checkboxes by adjusting the height and width in pixels since it could be hard to see for people with accessibility issues. Will help with whitespace issues.
Taylor	Technical	Looks very bland and disorganised with practically no use.	Make it neater by increasing the feature box by increasing height and width in pixels and adding the names of the features with a hover option next to the feature name and making it save to the accessibility SQL table using PHP.
Taylor	Technical	Should have more options than just checkboxes like font size slider, boldness, colour.	This is a very good point since some people can have issues with reading normal text size and it cannot just be limited to checkbox features. I would add this in the form box using Bootstrap features such as sliders and then adding a text attribute to make it display the name of the setting which would save to the accessibility SQL table.
Roddick	Technical	Adding a small 'i' icon that will show a pop up of how each disability will be catered might be nice.	This would be very helpful to make since it can give descriptions of what conditions the features can be mostly helpful too and a description for how the website caters to people with accessibilities. I will be adding this feature to make it more clear for the user. This will be done by adding a hover button on an icon which will use JavaScript.
Policy Page	Policy Page	Policy Page	Policy Page
Kintja	Non-technical	The policy page is quite plain, something should be added.	Instead of saying 'insert policy here' add a sample policy using the paragraph

			attribute that has been created and change the main attribute height to 70vh so it's not as tall.
Taylor	Technical	The policy page is really bland with no content.	Instead of saying 'insert policy here' add a sample policy using the paragraph attribute that has been created and change the main attribute height to 70vh so it's not as tall.
Roddick	Technical	I think an example of what the text will look like on the screen would give more insight for the policy page.	Instead of saying 'insert policy here' add a sample policy using the paragraph attribute that has been created and change the main attribute height to 70vh so it's not as tall.
Terms and Conditions Page	Terms and Conditions Page	Terms and Conditions Page	Terms and Conditions Page
Kintija	Non-technical	It's a lot of white, maybe add some more colour on the terms and conditions page.	Instead of saying 'insert terms and conditions here' add a sample policy using the paragraph attribute that has been created and change the main attribute height to 70vh so it's not as tall.
Raya	Non-technical	They didn't find this useful since it's just a title and then insert terms and conditions text.	Instead of saying 'insert terms and conditions here' add a sample policy using the paragraph attribute that has been created and change the main attribute height to 70vh so it's not as tall.
Taylor	Technical	There should be at least some AI generated text or lorum ipsum on the terms and conditions page.	Instead of saying 'insert terms and conditions here' add a sample policy from the internet using the paragraph attribute that has been created and change the main attribute height to 70vh so it's not as tall.
Roddick	Technical	I think an example of what the text will look like on the screen would give more insight for the page.	Instead of saying 'insert terms and conditions here' add a sample policy from the internet using the paragraph attribute that has been created and change the main attribute height to 70vh so it's not as tall.

Register Page	Register Page	Register Page	Register Page
Taylor	Technical	Because you used bootstraps inbuilt form validation, along with PHP backend validation for the password, there is possibly an exploit there.	I will need to search for more security options on the Internet and try to implement them using PHP and adding input sanitisation which would not let someone register with a number in a name in the PHP files.
Taylor	Technical	It looks like a normal page, again looks too bland, at least try, and make an image in the background so it's not all white.	I will add either images or ads at the side which will remove the whitespace by adding columns and divs inside of them and then adding an advert or placing a vertical image to engage the reader and then making the justify content to centred.
Taylor	Technical	The button colours need to be the same colour as the brand icon.	I will need to change the button colour in the form section of the HTML and the background colour will have to be changed to the brand logo colour.
Roddick	Technical	Doesn't think it's a good idea to add a confirm password as another field in the SQL.	I will need to delete this field from the SQL and change the PHP to remove the 'confirm password' column or instead change it to a Boolean value to say yes or no using 1 and 0s.
Roddick	Technical	I think it would be better if the error messages were displayed either on the form or somewhere above just to make the experience smoother instead of being constantly redirected for every incorrect information.	I will need to add error messages popups by using sessions in the PHP which will store what errors the user has, and it will redirect the user back to the register HTML page with an error at the top which they can close.
Login Page	Login Page	Login Page	Login Page
Kintija	Non-technical	I think there should be a way to use your saved login if it doesn't already do that already instead of typing it all out again.	I will need to search for this feature and then either add HTML or PHP code to the program that will allow saved information to be used on different browsers.
Taylor	Technical	It looks like a normal page, again looks too bland, at	I will add either images or ads at the side which will

		least try, and make an image in the background so it's not all white.	remove the whitespace by adding columns and divs inside of them and then adding an advert or placing a vertical image to engage the reader and then making the justify content to centred.
Taylor	Technical	Because you used bootstraps inbuilt form validation, along with PHP backend validation for the password, there is possibly an exploit there.	I will need to search for more security options on the Internet and try to implement them using PHP and adding input sanitisation which would not let someone login with incorrect information in the PHP files.
Roddick	Technical	For the validation for incorrect data I think it would be better if they were displayed either on the form or somewhere above just to make the experience more smooth instead of being constantly redirected for every incorrect information.	I will need to add error messages popups by using sessions in the PHP which will store what errors the user has and it will redirect the user back to the login HTML page with an error at the top which they can close.
Profile Page	Profile Page	Profile Page	Profile Page
Callum	Technical	I think it could do with a little designing more as it looks slightly bland but the layout has been done very well.	I will need to test the settings page with other users to see how it can be improved and then place ads or images at the side which will remove the whitespace by adding columns and divs inside of them and then adding an advert or placing a vertical image to engage the reader and then making the justify content to centred
Roddick	Technical	I think specifying what each setting does would be helpful as it shows to the user what they can customise with their account.	This would be done by going to the HTML of the settings page and changing the link attribute to the names of different settings and possibly would be better by adding Bootstrap inbuilt sliders.
Roddick	Technical	Prefers if the risk assessments would somehow be included in the	This would be done by grabbing the information from the bookings using a

		profile page as a booking reminder of sorts.	session in PHP and then checking if the user has booked any appointments which could then be added as a table on the profile page.
Roddick	Technical	Too much whitespace.	More images can be added using divs, columns and justify content under the buttons and articles and increase the button size with the text on it as well as the article container.
Check Weather Feature	Check Weather Feature	Check Weather Feature	Check Weather Feature
Roddick	Technical	One issue I have is that the page only shows the current weather, but not the forecast. I think it would be very useful to show the forecast as it helps the user with planning for the future.	This would be good but would have to be pulled from the open weather map API and then adding a section the say the weather forecast which would have to be designed by me or a design found on code pen.
Check Air Quality Feature	Check Air Quality Feature	Check Air Quality Feature	Check Air Quality Feature
Roddick	Technical	Would prefer if there was a bit more information of different pollutants for people with health issues.	This would be good but would have to be pulled from the open weather map API and then adding a section the say the air pollutants and how much of them there is currently using paragraphs in divs which would have to be set as justify content centred, which would have to be designed by me or a design found on code pen.
Roddick	Technical	It does show one error when a city is named incorrectly, but for some reason it accepted error as a city.	This would mean I would have to change the API I'm using or just try to sanitise the input further using PHP.
Risk Assessment Page	Risk Assessment Page	Risk Assessment Page	Risk Assessment Page
Kintija	Non-technical	Instead of choosing a time and then telling you that you can't because it is taken, I think if the appointment time is already taken, there shouldn't be an option to choose it.	This would be a good feature to implement since it would save the hassle for the users trying to find a free time if there are a lot of bookings. This would be done by fetching the risk assessment bookings table and then merging it with the time and date input fields

			form which will show the booked dates and time in grey in the PHP. The booked times and dates would also be unclickable, just viewable.
Roddick	Technical	I think the error message would be more useful at the top of the form rather than sending you to another page.	I will need to add error messages popups by using sessions in the PHP which will store what errors the user has, and it will redirect the user back to the risk assessment HTML page with an error at the top which they can close. These errors will be in a rectangular red or green box depending on the error.
SQL Database	SQL Database	SQL Database	SQL Database
Taylor	Technical	They think that there is too much lettering in the admin information table.	I will need to be better off shortening the table field names by editing them and naming 'view_login_records' instead to 'v_l_g' to show the admin permissions in the SQL database.
Roddick	Technical	Doesn't think that the accessibility information table is relevant in the SQL database.	I will need to delete this table until the saveable accessibility features are implemented or instead use an API to give accessibility features and then save them using cookies.
Code Files	Code Files	Code Files	Code Files
Taylor	Technical	You should never use "styles", only sometimes, so it's better to use classes	I will need to add classes to the code files and remove the style.css.
Roddick	Technical	The naming conventions also look relevant and clear, though things such as msg1 might be confusing for non-English speaking developers.	I will need to change the variables to make them seem more clearer such as using longer naming conventions e.g., 'msg1' would be changed to 'error_message_1' for other coding professionals to understand it better.
Roddick	Technical	I think it is fine as is, except for the CSS as it is within the HTML, which makes it looks quite overwhelming, and some of the html have the	I agree with this and if I have programmed this better without the use of Bootstrap, I could easily put all the styling into the CSS

		same CSS that could have been connected to a separate file. Though, this is using bootstrap, so the HTML makes sense why it looks like that.	page instead of having it on the HTML page, but because I have used Bootstrap, there is too much information to change.
Overall Overview	Overall Overview	Overall Overview	Overall Overview
Taylor	Technical	You should add a "do you accept the cookies" popup after you go on the page.	This is a good idea since it would show users that cookies are being used and this would have to be done with HTML.

Overall Summary of Testers Feedback:

Layout:

Overall, a lot of people have liked the layout, many have said that the fonts and text are readable and very bold, some have said the opposite stating that it was the font was too small to read, the testers had a hard time finding where the accessibility panel was which could be improved, one has claimed that there's quite a bit too much white space on the pages. Many have claimed that the colours are nice to look at, the logo also being relevant to the company. The testers have also claimed the colours make the accessibility panel hard to see, they struggle recognising that this is an accessibility panel and has majority of the negative feedback.

Home page:

Many have claimed that the accessibility panel needs to be a lot more visible with possibly arrows pointing at it, many have also said that the image conveys the website branding. There were many responses claiming that there is too much white space, and they could be filled with more articles. Additionally, a huge number of responses have claimed that there needs to be descriptions for the new article's sections/previews and descriptions of the website and each page since some didn't understand what the website would be about or the articles. Some testers have said that this page could be useful to some but not them since their health is fine.

Advice page:

Many testers have said that they find this page useful and that there are really no issues except pagination being too small, preference if the page was called articles and it'd be better if a search bar was implemented. This page has very little negative feedback and they have claimed that the layout is good, it does its job efficiently, it's useful and necessary and is minimalistic. They like how accessible it is, and the brief overview of the article.

About us page:

Many testers have said that the image conveys and relates to the website allowing for users to understand what the website is about, and one has said that the image provides comfort. However, quite a few have said that the about us page is not very useful to them since there is not really any text and just an image, and some have said that the image doesn't convey the brand since the image just shows a globe and a stethoscope. One would prefer if the accessibility panel was changed. There were mostly positive responses for the page.

Accessibility panel page:

One prefers that the button colour of the accessibility panel was made the same as the brand icon colour along with the checkboxes colours which would make it look a lot nicer. There were not really any issues, but most testers liked how I have added the accessibility feature, especially allowing the user to select multiple checkboxes for multiple conditions and options. However, some have preferred if there were descriptions for different features, and that different options were added such as font size slider. Some have said that it looks bland and disorganised and that they are small and hard to read. This page had mostly positive feedback. Most have said them, and the right audiences would find this page useful.

Policy page:

Most of the testers have claimed that they don't read policies so it wouldn't be useful for them though others have said that if you do not have policies, it can lead to many issues, and they like the idea of keeping it simple. Many testers have said that there's not much on this page and it's quite plain and bland. This would be better if I have added more information and sample text. More feedback could've been given if there was a sample text showing what it could've looked like.

Terms and conditions page:

Many have said that there's a lot of white space which I added to show how much text you could include but this hasn't been looked at this way. Testers have complained that there's nothing to show since it's just 'insert terms and conditions' text which is not useful since it's not a sample. Because of this, many testers have said it's not useful. Though some have overlooked the whitespace and said if the information was there, it would be useful for people. Some have said it's straightforward and don't really have any comments about it. This page had a bit more of negative feedback with repeated issues said above.

Register page:

Many testers have liked how there's error checking included such as telling the user if the passwords don't match and that the email must include the '@' symbol and be in the correct format. This page has mostly positive reviews mostly because of the error checking attribute. People really liked the error messages being clear and readable to the user. However, one of the testers has claimed there could be exploits since I have used Bootstrap's inbuilt form validation which should be thoroughly tested, and penetration tested before release. Many have said that it's easy to use with good instructions. Many users have said that this page is useful. One tester has said that they would prefer if the error messages were on the same page which would make the website smoother to navigate through.

Login page:

One tester thinks that there should be a way to use your saved login information to login instead of typing it all out which is a very good point, which would make the user experience smooth and more efficient. A lot of testers have said that this page is useful since it allows the user to login with their details. One tester has said that there could be possible exploits since the login form validation was used from Bootstrap, and this would be important since protecting user's information is very important otherwise you could earn a bad company reputation or lawsuits if a data breach does happen. One tester has said that they would prefer if the error messages were on the same page which would make the website smoother to navigate through. This page had mostly positive reviews.

Profile page:

Many testers have said that this page is useful since it's personalised to the user and makes the user feel welcomed. There weren't many complaints for these pages since everything seemed to be running smoothly. This page had mostly positive reviews which people claiming that it's easy to navigate, they like the articles and check features and that it has a settings page which lets the user log out.

Check weather feature:

Many testers have said that this page is useful since it gives the user all of the aspects of the weather, wind speed and temperature and the advice on health issues. Many testers have also said they really like the error checking since it wouldn't show information for a non-existent city or a city that is spelt wrong. There were very few negative reviews, and everyone liked the page fairly well. Testers have claimed that this is an overall great feature to include.

Check air quality feature:

Some testers have said that this page isn't useful, and it doesn't affect them, since they do not need to check the air quality, but they said for other people it can be useful. Many testers have claimed that they like how it says if it's a good time to go for a run after the air quality statement and how it clarifies the air quality state such as 'Fair'. One of the testers has noticed an error while entering 'error' as a city since it came up with a city. One tester has also claimed it would've been better if different pollutants were shown in the air for people with asthma or allergies.

Check symptom feature:

Many testers like the timer countdown for the check symptom feature page which will let the user know how far way it is from being released since it's very informative. Many testers have also claimed that this page would be useful for them since it would allow the users to check their symptoms once created with the API. I have put a countdown for this page since it didn't work well with the API I attempted to use. However, one has said it wouldn't be useful for them though they see how it could be useful for others. This page has no issues which the testers have claimed, and they like it how it is.

Risk assessment page:

Many testers have said that they like how easy the risk assessment booking is since it also includes error checking that doesn't allow the user to book an appointment if they have booked an appointment before 2 weeks have passed since their last one. Though many users do not find this feature useful since they wouldn't personally want a risk assessment appointment, but this could also be due to the pool of testers. One user has claimed it having to register to book an appointment can through people off, but I have implemented this, so users can track when their next appointment is and delete an appointment if they cannot attend it. There were mostly positive reviews talking about how people found it easy to register with.

SQL database:

Many technical testers have said that the table is efficient and looks professional. One of the testers has told me I have good use of `worm_case` in the SQL database. Many of the testers thought positively about the SQL database with minimal changes wanted such as too much lettering in the admin information table since it's too long and can look messy but also one tester doesn't think that the accessibility information table is relevant and, in my opinion, can either be deleted or replaced with an API to track it all. They have said that the naming conventions are suitable and everything else looking fine.

Code files:

Many of the technical testers have said that the code files look great and professional with accurate naming conventions except of too shortened naming conventions such as 'msg_1' would be hard for programmers that don't have English as their first language. All of the programmers said they would share this code with other business professionals, and they have not found any bugs. The testers agree that the code organisation is nice and neat, that there's enough comments for a programmer that hasn't use PHP to quickly understand what the program is about and that the hierarchical order is displayed appropriately. The code files had mostly positive reviews and only a few issues but no bugs or major issues.

Overall overview:

Very many of the testers have complained about the form being too long but they justify it by the website having many features. One of the testers would want to see an audio feature/voice recognition to help people that are visually impaired to be able to navigate the site with ease which would be a really good feature. This tester would also want to see more features for the accessibility panel and work on improving user experience for them so all audiences can be included. Another tester would love to see a brief description on the about us page about the business and what it does so that customers would know where to contact the business/company. Another tester has claimed their first impressions being that they found the website was too bland and that it needed more images with colours. This tester would also want more information on the pages that showed sample texts. They have also pointed out that one of the questions was messed up since it was a 'rate this page out of 5 stars' question and it was a text box instead of a rating question which is very good since I will now retest the forms to make sure it's accurately created. One user would want the 'advice' link to be changed to 'articles' so it's clearer for the users. Another user would love to see future weather forecasting and an article with example content which is a good idea since it would allow for testers to comment on the sample information and how it could be displayed better.

Personal Opinion of Feedback Received, Solution and Testing Overview:

Overall, I found the feedback useful since I have added a lot of questions about different pages which a lot of people found annoying and it extended the time of how long I had to wait for responses to come in. I believe some testers did glance over the questions and some testers wrote a lot of information so there is a wide range of audience. I had issues with Microsoft Forms since I have used branching to add different sections which errored the summary of responses, so all the graphs had to be made manually as well as having to screenshot every response rather than uploading an excel file. I have made my survey early on, so I was able to get everyone who I needed to, to answer the questions which Microsoft Forms estimated to be around 2 hours to complete. The technical survey was 104 questions, and the non-technical survey was 73 questions. Next time, I will not add as many questions so people would be able to answer it quicker without giving up halfway. I found that sending screenshots and videos of the prototype was not the best solution since it took a while and was very annoying and I would've preferred hosting the prototype online. A lot of users also got confused on what video to watch when there was headings and titles and descriptions as necessary but that is probably because it was videos and screenshots. I believe more feedback would've been received if the users were actually able to play around with the website. Another good presentation of the prototype would be 1-1 call but with them having access to the prototype and being able to play around with it rather than just me having to show them videos. I had to call some people to help them complete the survey and they kept having issues with the PowerPoint which was not ideal. Next time, I would either host the prototype or allow the user to play around with the prototype and they would be able to give any comments regarding to it. I believe every

issue was described in detail by the testers and there's nothing that should be changed on their part. What went well was getting the feedback quickly and having repeated questions, though most people were annoyed by them, to allow users to automatically plan out their responses knowing there would be similar questions on the next section. Using Microsoft Forms was not an ideal solution for the survey website because again, it did not show any summary information about the responses and only showed some and not all. If I did this again, I would most likely use SurveyMonkey or another tool that would also be able to analyse the data and display graphs corresponding to it since it is very time-consuming making graphs for every page and rather would prefer Microsoft Forms to do it, but I didn't know about them not having a graph feature or them not displaying the questions correctly. It also took me a while to make the questions which is not ideal since I had to evaluate every single one. I had to also look at every response one by one for the evaluation section since it didn't feature allow me to view the summary for the responses which was very time consuming and could be done better if I didn't use Microsoft Forms. I believe all the responses were suitable and professional and I couldn't have picked better testers to complete my survey.

[**How were security issues, legal issues and ethical issues avoided, mitigated:**](#)

These issues were mitigated by not including sample text from the Internet for things such as copy pasted policies, terms and conditions, articles since it could risk as an issue for copyright, and I have either left them blank or included 'insert policy here'. I have used some images in my prototype, but these have all been linked into the asset log. I have also decided not to give my files to the users since it could risk the issue of them uploading it somewhere else, claiming it's their own work and uploading it or breaking it/messing with it/editing it. Due to this, I have used videos and screenshots to show my prototype. I have added a terms and conditions and a policy page which users would have to accept before registering to show that they have accepted cookies before uploading their information to the website. Though I would've liked if I implemented a solution for a 'do you accept cookies' pop-up which would make it easier for the user to know that the website is using cookies. All the testers have also claimed I have stuck to the GDPR and WCAG guidelines and that my website fits them. Security issues have been mitigated by adding error checks for different pages such as error checking for the register page, login page, risk assessment pages and API features. These error checks include but are not limited to, 2-week grace period between booking risk assessment appointments, email must be in the correct format (with an '@'), passwords must be matching, the APIs wouldn't show information for misspelt cities or cities that do not exist. Though one tester has mentioned possible exploits in the login and register form since they include Bootstrap inbuilt validation which should be improved.

Task 3a Plan for Gathering Feedback:

Why I am gathering feedback:

I will be gathering feedback from the non-technical and technical audience to get more insight about my solution, more data on how I can improve my prototype, and see how different users with a different perspective would perceive, understand, and digest information in different ways than how I have created and planned out my solution. This would help me understand how my website would operate if it was uploaded to the Internet and how I can make it most efficient and easy to understand solution for different users from different background and possibly with different disabilities that could need support and give them the best experience as well as being simple and clear. I want to improve the user experience and increase the chance of customers coming back to the website.

Methods of gathering feedback:

- Sending out a survey/form
- Include a feedback button on the website
- Short feedback question in exchange for rewards/discounts
- Live chat
- Produce analysis of statistics based on the website
- Look at the database to gather the feedback, how many rows are filled, most used feature
- Monitor analytics
- Run user testing, see what feature users remember first/see first within first 5 seconds of opening the website, test opinions on logos and marketing materials, this would give first impressions
- Test users clicks, navigation, page visits, features visited and preferences
- Using a net promoter score survey where it has questions such as how likely the user would be to recommend this solution to a friend from 1 to 10, 10 being very likely
- Email surveys
- Social media – how users talk about the product and if they have any issues with it
- Customer support queries, how many emails are received about website issues, feature issues, does it outweigh the positive or suggestions feedback
- One to one call or appointment, they play around with the website, and they give feedback or you ask them questions about the website

Methods of presenting prototype:

- Attaching screenshots of different pages, features, database, and its tables
- Creating a video to showcase what the website can do, error checking and demonstrating features
- Hosting the website and sharing the link
- Sending the code files to the user

Tools for gathering feedback:

- Hotjar – Shows various types of heat maps which helps identify how users are scrolling, moving, click and see how users are navigating through visitor recordings.

- Microsoft Forms – Helps to create questions for a survey.
- Typeform – Allows to write questions in a conversational tone.
- Sprinklr – Lets the user create an online customer community and allows the visitors to engage and get faster feedback as a result of that.
- Reevoo – Collects reviews, written on behalf of companies that can be only submitted by people who have either made a purchase or experienced the software.
- Loop – Visual customer feedback tool which includes a screenshot plug-in that integrates directly into the website, alongside an embedded forum that lets the website visitors vote on submitted feedback to drive strategic product decisions.
- Qualtrics – Social media feedback management that uses AI and machine learning to help understand the large amounts of customer feedback submitted across multiple marketing channels.
- Google Forms – Allows for responses to be sent automatically to Google Sheets to view, filter, and sort the data any way.
- SurveyMonkey – Includes 40 short survey templates.
- Typeform – Allows the user to download survey insights.
- Jotform – Can automatically sync form data with tools you already use for time-savings and better information management.
- SoGoLytics – Includes various question types as well as allowing the embed of audio, video and more.
- SurveyPlanet – Includes 30+ languages to allow different users from different backgrounds to answer.
- Zoho Survey – Allows you to review real-time responses and has support for mobile devices.
- Crowdignal – Includes WordPress design themes.

General questions:

- What is your name?
- What course do you take?
- How old are you?

Main questions (technical questions are marked with a 't' and are orange, questions in black are general questions used for both surveys):

Layout questions:

- What do you think of the layout/theme, does it go together and look cohesive?
- What do you think about the font and colours used, are they readable and easy to see?
- **What do you think of the naming of navigation bar links and footer links, are they relevant and easy to understand what the website is about? (t)**
- Do you like the logo, if so why, if not why and how can it be improved?
- What do you think of the accessibility panel placement?

Home page:

- **Do you find that the image conveys and relates to the company and what the website is about? (t)**
- What do you think about the new articles section?
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?

- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Advice page:

- What is your opinion on the feature that allows you to click on the articles and direct you to the article layout page? (t)
- What do you like, dislike and would change about the article layout page? (t)
- What is your opinion on the feature that allows you to switch pages between the articles at the bottom of the page?
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

About us page:

- Does the image resize correctly when you change the window sizes/devices? (refer to ppt) (t)
- Do you find that the image conveys and relates to the company and what the website is about?
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Accessibility panel:

- What is your opinion on the feature that allows you to select multiple features and tick multiple checkboxes?
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Policy:

- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Terms and conditions:

- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Register:

- What is your opinion on the feature that allows you to register using the information fields provided, how did you find it, was it easy, if not why?
- Are you able to register with non-matching information, empty fields, incorrect email format and details that have been already registered with? (refer to ppt) (t)
- What do you think of the error messages, are they clear and understandable? (t)

- Did you encounter any errors, if so please explain?
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Login:

- What is your opinion on the feature that allows you to login with the details you have registered with, how easy was it, if not why?
- Are you able to login using different credentials that haven't been registered with? (refer to ppt) (t)
- What do you think of the error messages, are they clear and understandable? (t)
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Profile page:

- What is your opinion on the feature that displays a heading saying welcome and the name the user has registered with?
- Are you able to click on the profile icon in the top right, and then click it again, does it return you back from the settings page to the profile page? Are you also able to logout in the settings page? (refer to ppt) (t)
- What do you think about the settings page, is there any way it could be improved? (t)
- Are you able to click on the articles and does it redirect you to the article layout page? (refer to ppt) (t)
- Do you like the articles recommended for you feature, why, why not?
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Check weather feature:

- Are you able to click on the check weather feature and does it function correctly? (refer to ppt)
- When you enter a city name, does it say the current weather state as well as the facts and figures? (refer to ppt)
- Are you able to enter different cities and view the weather for them, how accurate is it and how useful is this, does it show errors when a city is entered incorrectly? (t) (refer to ppt)
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Check air quality feature:

- Are you able to click on the check air quality feature and does it function correctly? (refer to ppt)

- When you enter a city name, does it say the current running quality based on air quality state as well as the facts and figures? (refer to ppt)
- Are you able to enter different cities and view the air quality for them, how accurate is it and how useful is this, does it show errors when a city is entered incorrectly? (t) (refer to ppt)
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Check symptom feature:

- Are you able to click on the check symptom feature and does it function correctly? (refer to ppt)
- Does it show a countdown, do you like it, why/why not?
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

Risk assessment booking:

- Are you able to book an appointment, how did you find it, was it easy, if not why and what was the issue? (refer to ppt)
- Are you able to book an appointment with the exact same details, with unregistered login details, same login details with different dates and time? (t) (refer to ppt)
- What do you think of the error messages, are they clear and do you like the date and time fields with the pop-up menu? (t)
- Did you encounter any errors, if so please explain?
- Do you find the information/features/this page on this website useful to you, why?
- Is there any feature you particularly like, dislike, would want to change, have an issue with or have any comments/suggestions regarding to?
- Please rate this page out of 5 stars (5 being the best, 1 being the worst)

SQL DB:

- Is this database efficient, would it be best for me to add, remove or edit the tables, are the naming conventions sensible and professional? (t)
- What do you think about the field names of these tables, are they suitable for the solution should I add anything, delete, or edit? (t)
- Please rate this database out of 5 stars (5 being the best, 1 being the worst) (t)

Code:

- Do you find that the comments demonstrate what the program does, are relevant and help to understand the code? (t)
- How would you find the code organisation, is the content written grammatically correct, is the code organised in a hierarchical order, are the naming conventions of variables suitable and professional? (t)
- Do you find that the code is as efficient as it could be, could it be improved or changed further? (t)
- Have you encountered any errors of any sort or bugs, if so please explain? (t)

- Is this code understandable and clear to read, would you share this code with a business professional? (t)
- Please rate the code out of 5 stars (5 being the best, 1 being the worst) (t)

Overall overview:

- Did you find that the icons, images, and the logo was suitable to the website and related to the brand?
- What were your first impressions of this website?
- How likely would you be inclined to return to this website?
- How likely would you recommend this website to a friend?
- Have you visited a website recently that looks similar to this one, if so, please attach a link?
- What features would you most like to see in future development?
- Did you find the website web responsive for your device, if not, please explain? (t) (refer to ppt)
- How was your user experience while navigating through the website, was it smooth? (t) (refer to ppt)
- Did you find all the links to be working and clickable, was anything out of order, layout? (t) (refer to ppt)
- Did this website render the images correctly and how efficient is the response time, did you have any issues? (t) (refer to ppt)
- Do you believe that this website follows the General Data Protection Regulation guidelines, Web Content Accessibility Guidelines, policies/cookies and is accessible to different audiences, why/why not/how can it be improved? (t)
- Were you able to find any bugs/issues, if so, what are they? (t)
- Please rate this website out of 5 stars (5 being the best, 1 being the worst)
- How did you find this form, was it easy and simple to complete, too long, repeated questions, any issues, or errors?
- Any final thoughts, feedback, or comments?

104 technical survey questions

73 non-technical survey questions

Plan of testers that I will request:

Roddick (Technical audience)

Taylor (Technical audience)

Jake (Technical audience)

Taya (Non-technical audience)

Freddy (Non-technical audience)

Callum (Technical audience)

Alex (Technical audience)

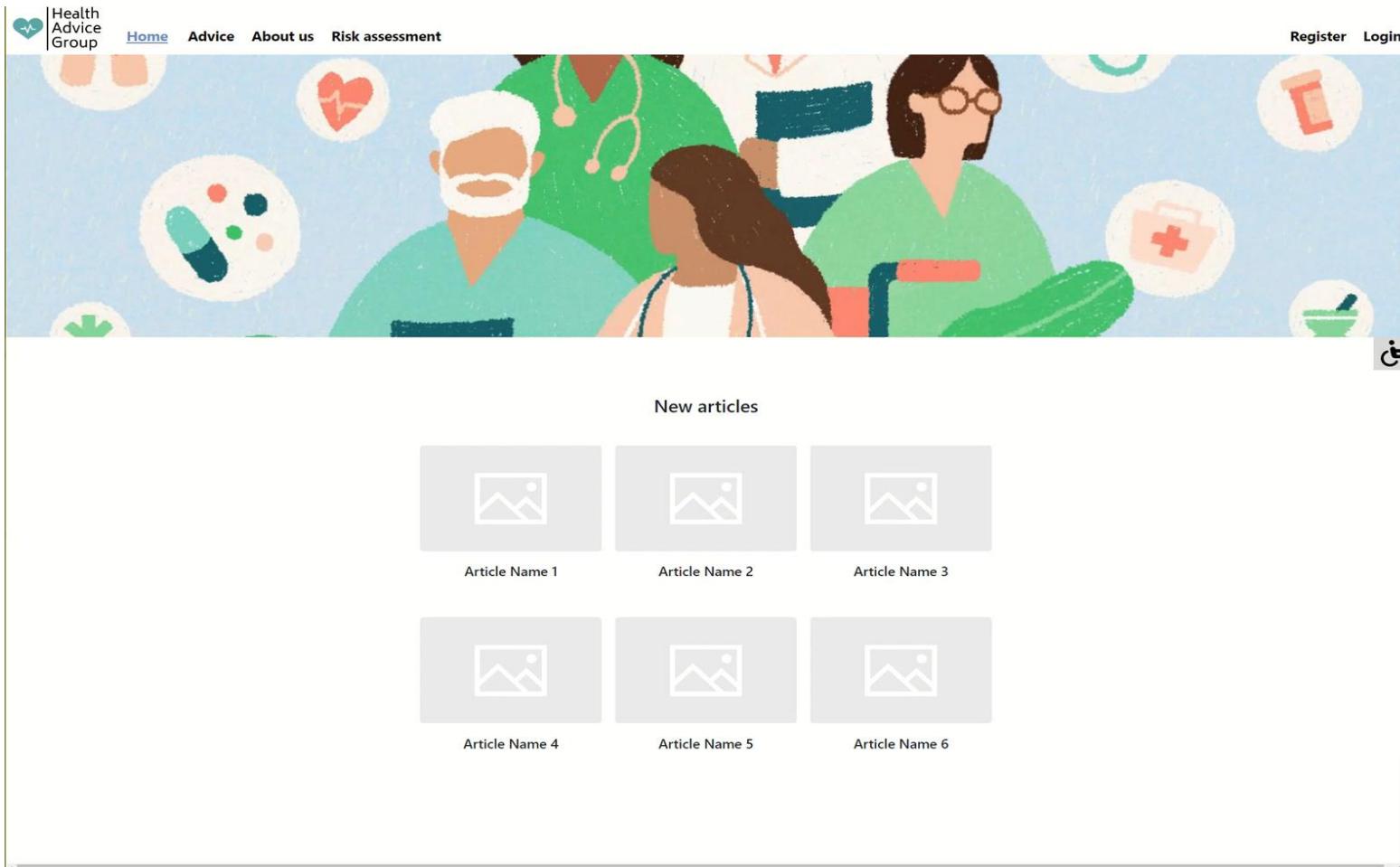
Pippa (Non-technical audience)

Task 3a Health Advice Group Demo

Survey URL: <https://forms.office.com/e/UZwR821zGN>

Layout demonstration

- This demo shows all the pages and them being linked together, please feel free to pause at any time or download the video.



Advice page demonstration

- This demo shows me clicking on the articles and going to the next page to see more articles, please feel free to pause at any time or download the video.

The screenshot displays a website interface for 'Health Advice Group'. At the top left is the logo 'Health Advice Group' with a teal heart icon. The top navigation bar includes links for 'Home', 'Advice' (which is underlined in blue), 'About us', and 'Risk assessment'. On the right side of the header are 'Register' and 'Login' buttons, and a grey accessibility icon. The main content area is titled 'Articles' in bold black text. Below this, there are four article cards arranged in a 2x2 grid. Each card has a title, a small note about publisher details, and a 'Brief overview' link. The cards are labeled Article 1, Article 2, Article 3, and Article 4. At the bottom center of the page is a small navigation bar with the numbers 1, 2, and a right-pointing arrow.

Articles

Article 1
publisher name *published date* *published time*
[Brief overview](#)

Article 2
publisher name *published date* *published time*
[Brief overview](#)

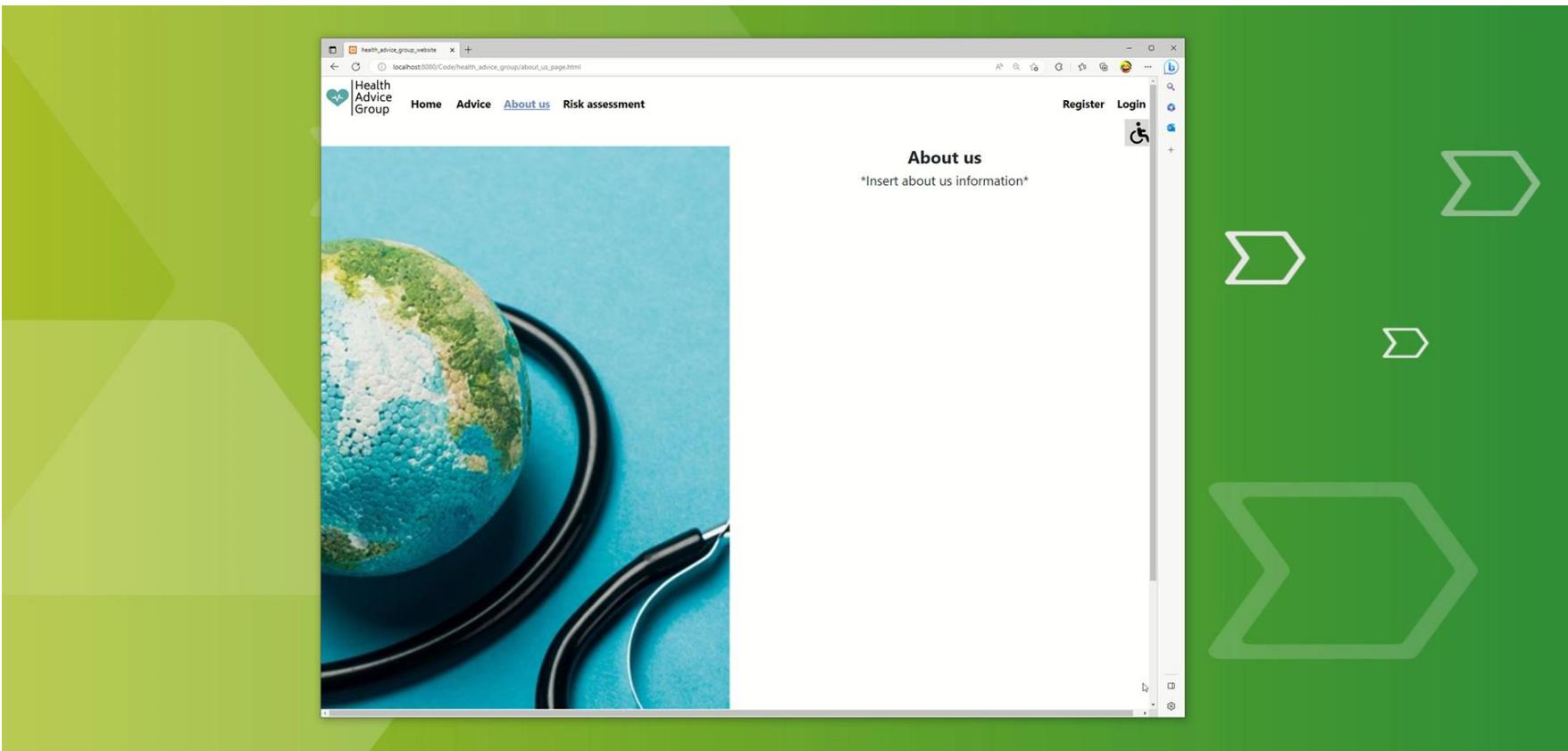
Article 3
publisher name *published date* *published time*
[Brief overview](#)

Article 4
publisher name *published date* *published time*
[Brief overview](#)

1 2 »

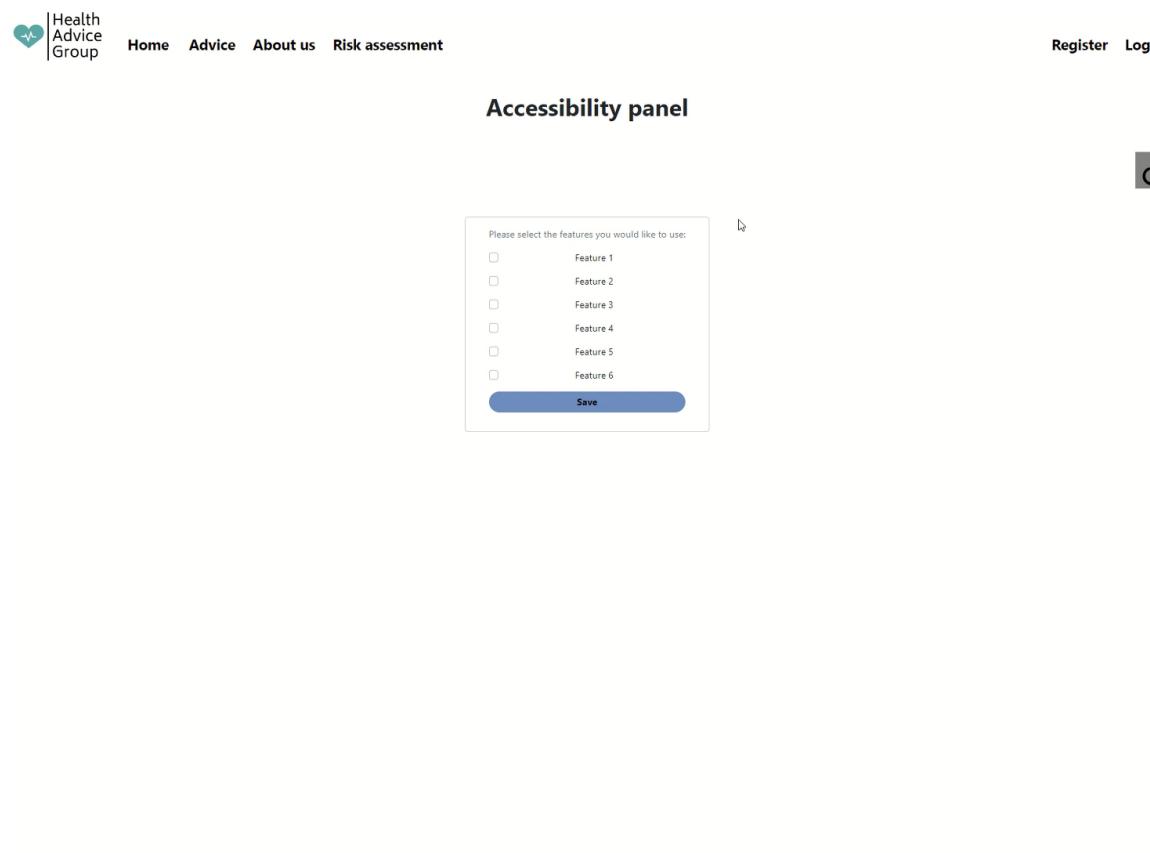
About us page demonstration

- This demo shows me resizing the website to show how the image is web responsive, please feel free to pause at any time or download the video.



Accessibility panel page demonstration

- This demo shows me clicking on the checkboxes to show that they work, please feel free to pause at any time or download the video.



Accessibility panel page screenshot

The screenshot shows a web page titled "Accessibility panel". At the top left is the "Health Advice Group" logo, which includes a teal heart icon. The top navigation bar contains links for "Home", "Advice", "About us", and "Risk assessment". On the right side of the top bar are "Register" and "Login" buttons, and a teal accessibility icon (a person in a wheelchair). The main content area has a heading "Accessibility panel" and a sub-section titled "Please select the features you would like to use:". This section contains a list of six checkboxes, each paired with a feature name: Feature 1, Feature 2, Feature 3, Feature 4, Feature 5, and Feature 6. A blue "Save" button is located at the bottom of this list. At the very bottom of the page is a teal footer bar with links for "Home", "About us", "Policy", and "Terms and conditions".

Register page demonstration

- This demo shows me registering with different information to show error checking and then showing the database and how it updated, it also shows me registering with the exact same email after I already registered with, please feel free to pause at any time or download the video.

The screenshot displays a registration form titled "Register" on a website for "Health Advice Group". The top navigation bar includes links for Home, Advice, About us, Risk assessment, Register, and Login. The registration form consists of four input fields: Name, Email, Password, and Confirm password. Below these fields is a checkbox labeled "Accept terms and conditions". A blue "Register" button is positioned below the checkbox. At the bottom of the form, there is a link that reads "Already have an account? Login here".

Health
Advice
Group

Home Advice About us Risk assessment

Register Login

Register

Name

Email

Password

Confirm password

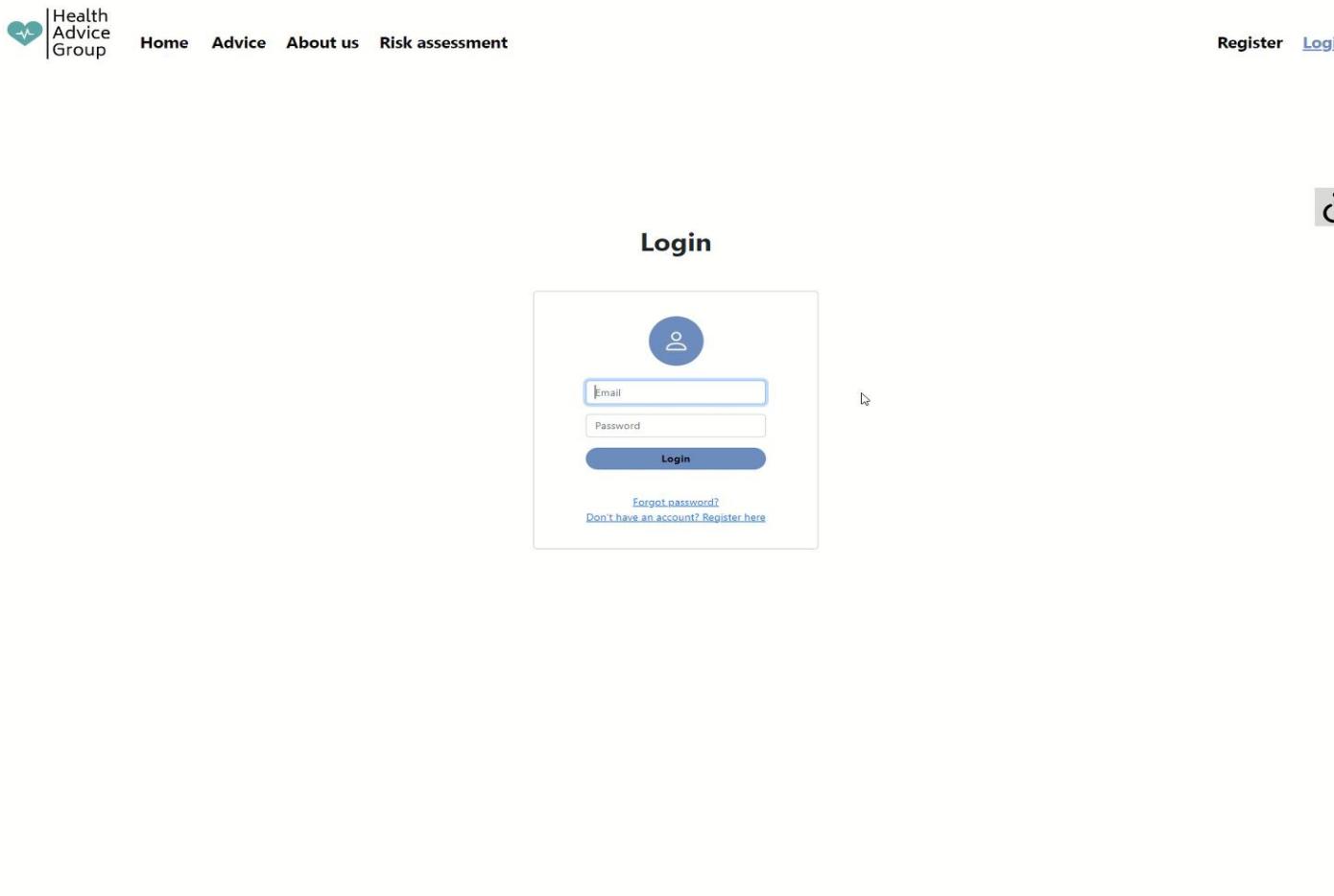
Accept terms and conditions

Register

Already have an account? [Login here](#)

Login page demonstration

- This demo shows me logging in with details that have been previously registered with and then trying to login with incorrect details, please feel free to pause at any time or download the video.



Profile page demonstration

- This demo shows me clicking on the settings page, going back to the profile page, me clicking on the articles suggested and me logging out, please feel free to pause at any time or download the video.



Check feature demonstration

- This demo shows me using all the features available on the profile page as well as entering city names that do not exist, please feel free to pause at any time or download the video.

The screenshot shows a web application interface. At the top left is a logo for "Health Advice Group" featuring a heart icon. To its right are navigation links: Home, Advice, About us, and Risk assessment. On the far right of the header is a blue circular profile picture placeholder with a question mark icon. Below the header, a vertical sidebar on the right contains icons for a user profile (blue circle with white question mark), a magnifying glass (search), and a wheelchair (accessibility).

In the center, a welcome message reads "Welcome test name". To the left, there are three blue buttons labeled "Check weather", "Check air quality", and "Check symptoms". To the right, a section titled "Articles recommended for you" lists four articles, each with a small preview image:

- Article 1
- Article 2
- Article 3
- Article 4

Risk assessment page demonstration

- This demo shows me trying to book a risk assessment with different credentials, please feel free to pause at any time or download the video.



Risk Assessment Booking

Please enter your login details along with the date and time of the booking

Email

Password

dd/mm/yyyy ...

... ...

Submit

This booking can be cancelled at any time, but you cannot book another risk assessment appointment before 2 weeks have passed since your last risk assessment appointment.

SQL Database screenshots

Table	Action	Rows	Type	Collation	Size	Overhead
accessibility_preferences	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 Kib	-
admin_information	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 Kib	-
articles	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
login_information	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	32.0 Kib	-
risk_assessment_appointments	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	32.0 Kib	-
5 tables	Sum	3	InnoDB	utf8mb4_general_ci	144.0 Kib	0 B

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
SELECT * FROM `accessibility_preferences`
```

Query results operations

Create view

Bookmark this SQL query

	login_id	name	email	password	c_password	terms_and_conditions	admin_account
<input type="checkbox"/>	13	test name	test@gmail.com	test123	test123	1	0
<input type="checkbox"/>	14	testname2	test2@gmail.com	test321	test321	1	0

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)

```
SELECT * FROM `admin_information`
```

Query results operations

Create view

Bookmark this SQL query

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)

```
SELECT * FROM `articles`
```

Query results operations

Create view

Bookmark this SQL query

Code snippets

```
#!/bin/bash
# This file contains logic for handling user registration
# It includes validation for email and password, and creates a new user entry in the database
# Usage: ./register.sh <email> <password>
# Example: ./register.sh test@example.com password123

# Check if required arguments are provided
if [ -z "$1" ] || [ -z "$2" ]; then
    echo "Usage: $0 <email> <password>" >> error.log
    exit 1
fi

# Connect to MySQL database
mysql -u root -p$DB_ROOT_PASSWORD >> error.log
if [ $? -ne 0 ]; then
    echo "Error connecting to MySQL database" >> error.log
    exit 1
fi

# Insert new user into the users table
echo "INSERT INTO users (email, password) VALUES ('$1', '$2');" | mysql -u root -p$DB_ROOT_PASSWORD >> error.log
if [ $? -ne 0 ]; then
    echo "Error inserting user into database" >> error.log
    exit 1
fi

echo "User registered successfully!"
```

```
#!/bin/bash
# This file contains logic for handling user login
# It checks the provided email and password against the database
# If successful, it prints a success message and logs the user in
# Usage: ./login.sh <email> <password>
# Example: ./login.sh test@example.com password123

# Check if required arguments are provided
if [ -z "$1" ] || [ -z "$2" ]; then
    echo "Usage: $0 <email> <password>" >> error.log
    exit 1
fi

# Connect to MySQL database
mysql -u root -p$DB_ROOT_PASSWORD >> error.log
if [ $? -ne 0 ]; then
    echo "Error connecting to MySQL database" >> error.log
    exit 1
fi

# Select user from the users table
user=$(mysql -u root -p$DB_ROOT_PASSWORD -s -N -e "SELECT * FROM users WHERE email = '$1' AND password = '$2';" >> error.log)
if [ -z "$user" ]; then
    echo "Login failed. Invalid email or password." >> error.log
    exit 1
fi

# Log the user in
echo "User logged in successfully!"
```

```
#!/bin/bash
# This file contains logic for handling user login
# It checks the provided email and password against the database
# If successful, it prints a success message and logs the user in
# Usage: ./login.sh <email> <password>
# Example: ./login.sh test@example.com password123

# Check if required arguments are provided
if [ -z "$1" ] || [ -z "$2" ]; then
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    exit 1
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fi

# Log the user in
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# Example: ./login.sh test@example.com password123

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    echo "Login failed. Invalid email or password." >> error.log
    exit 1
fi

# Log the user in
echo "User logged in successfully!"
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# This file contains logic for handling user login
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# If successful, it prints a success message and logs the user in
# Usage: ./login.sh <email> <password>
# Example: ./login.sh test@example.com password123

# Check if required arguments are provided
if [ -z "$1" ] || [ -z "$2" ]; then
    echo "Usage: $0 <email> <password>" >> error.log
    exit 1
fi

# Connect to MySQL database
mysql -u root -p$DB_ROOT_PASSWORD >> error.log
if [ $? -ne 0 ]; then
    echo "Error connecting to MySQL database" >> error.log
    exit 1
fi

# Select user from the users table
user=$(mysql -u root -p$DB_ROOT_PASSWORD -s -N -e "SELECT * FROM users WHERE email = '$1' AND password = '$2';" >> error.log)
if [ -z "$user" ]; then
    echo "Login failed. Invalid email or password." >> error.log
    exit 1
fi

# Log the user in
echo "User logged in successfully!"
```



TASK 3B EVALUATION

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Task 3b Health Advice Group Evaluation:

The effectiveness of the assets and content used, including:

Why the chosen assets and content were selected, and why other content was rejected:

I have chosen to use a variety of Bootstrap templates to get inspired and aid the creation of my website and features that would help multiple users in navigating the website such as login forms, register forms, article cards, pagination to allow users to flip through article pages, panels and more. This has helped my website look a lot more professional for various audiences and help to adhere to modern website standards today. There was not a lot of other templates out there though, templates such as the website Code Pen didn't have suitable templates and were either not tested accurately or not suitable for the audience.

I have chosen to use a wheelchair icon for the accessibility panel that would allow the users to smoothly find the accessibility panel so they can access the features that are necessary for them to provide them a better user experience. The wheelchair icon is commonly used for people with disabilities around various websites so it's very well known, and customers would easily be able to interpret it. One of the testers has also claimed this feature and icon is visible to them as a person diagnosed with autism. There were not many websites offering free icons and usually required the user to register before accessing free icons which I didn't since I found this to be a security issue. The website I have gotten this icon from was Font Awesome.

I have chosen these images from Google Images by narrowing the search down to fitness and health which allowed for various images and allowed for multiple choices, meanwhile other websites kept asking me to register which was a security issue for me. These images relate to the website by displaying a stethoscope, different health icons and more as well as many testers saying it allows for the definition and summary of the brand and what it can do for the customer. It would be a lot more time consuming to register as well so I chose an efficient option by referring to Google Images.

The API I have used is Open Weather Map since it was the most efficient and least time consuming to implement since I was able to implement both air quality and weather forecast using the same API. It allowed me to display the temperature, wind speed, humidity, air quality index and more based on the city the user has entered which allows the user to have more features to interact with.

I have created my own logo from the app logo website that allows you to easily personalise your logo and edit it to your liking and brand. I have used this website over other logo making websites because most of them asked to pay for a subscription to download the logo or were not suitable for purpose and the audience I had. This logo helped users to recognise the company and make the website look a lot more professional.

I have decided to use Stack Overflow for code snippets inspiration since it's mostly used by programmers as well as supported by Microsoft itself. This helped me find other ways of dealing with issues and to quickly solve them without any problems. I have chosen this over other options since it was very commonly used and other websites didn't have solutions I was looking for as well as not being suitable for my website.

The validity and reliability of the sources of information used:

I have used Bootstrap templates because they are already verified by different sources and it's already inbuilt into Bootstrap so no viruses or malware can occur. This website is also supported by a well-known website called GitHub that allows for developers to upload their own code. Bootstrap is a subscription based web development app, though this can be surpassed if you are a student, which shows professionalism and confidence in this application being secure.

I have chosen to use Font Awesome since the icons looked very clear as well as me not having to sign in to use the icons which allowed for time efficiency. It provided me with different colours of the icon as well as the code to allow the direct integration of it. It was very easy to use and is very common among developers.

I have chosen to source my images from Google Images since Google is used very commonly used among everyone and Google would flag up/not show any images that breached the security policy or were unsafe to use. Many of the other sources as well as copyright-free sources didn't look very professional and up-to-date as well as asking the user to either pay or sign up before accessing these images which would be very time consuming. These images were also allowed by the college's network which again proves their safety and security. Many of these images were directly from other websites on Google Images which Google has deemed as safe by having 'https' in the beginning of the link to show they are secure.

I chosen to use Open Weather Map API since many of close friends have recommended this and it did not ask the user to pay to install the API. It showed different metrics and measurements that other unsafe and unsecure APIs wouldn't such as air quality index, temperature, wind speed and humidity which further shows how this is safe. It allowed for more API use with payment but it kept the basic features for free and usable unlike other websites which made them unusable.

I have chosen app logo for my logo that was deemed safe since the website looked very professional and usable. It allowed for much customisation with free logos and different ways of downloading the logo such as a PNG with different colours. It looked very safe and was completely free.

I have used Stack Overflow which is deemed safe because it is in partnership with Microsoft which is a well-known brand and it allows for the user to upload code snippets without uploading the whole files. It also allows for users to comment on help requests and other users can upvote or like the comment which also then allows for the creator of the post to put a checkmark on solutions that work or do not work. There can also be made further comments on the comments that allow for further questions to be answered.

[The legal and ethical implications of the assets and content used:](#)

The images that have been used in this prototype are chosen to be copyrighted since most copyright-free images websites had a watermark and asked the user to pay to access them or had a sign-up feature to access these images and I did not feel secure on putting my information in. If this was an actual project, I understand that I would have to ask rightful permission from the owner to use any assets. Many other assets such as the wheelchair icon, Bootstrap template, app logo, Open Weather Map API was all gathered from open-source sources which allowed for creation of materials. Stack Overflow did not have any legal implications since people write their own responses and it's qualitative data.

I have decided to combat legal and ethical implications by creating a terms and conditions and policy page which would allow for the user to read what data is being collected and for them to decide if they would like to use this website or not. It's required for the user on registration to accept the

terms and conditions otherwise they are unable to register since they need to know the data that is being collected on them and if they are okay with this. I have also made sure the colours and the theme of the website matches correctly and follows the Web Content Accessibility Guidelines to allow for everyone to access the website and my website has passed. I have made sure to implement active links to whenever the user is on a different page, the page link they are on will light up to show what page they are on and this is helpful for people with accessibilities or sight issues. I have implemented an accessibility panel to help combat Web Content Accessibility Guidelines and allow the website to be accessible to every user which would allow the user to check multiple features and save them using an IP address as well as being saved when they come back to the website. This accessibility panel is now ready for further implementation. I have made this website web responsive so different devices are able to view it without any issues and to follow the Web Content Accessibility Guidelines. I have decided not to implement any sample text in since it would be most likely a copyright issue since it would come from different websites, and have used text such as ‘insert policy here’ instead to combat this.

How well the digital solution meets (review marked in blue):

Functional requirements:

- The solution must have a home page. – The solution has a working home page with a new article section for the user to read.
- The solution must have an advice page. – The solution has a working advice page with a card style article layout to allow the user to view different articles.
- The solution must have an about us page. – The solution has a working about me page with an image at the side to entertain the reader and is ready for further implementation.
- The solution must have a risk assessment page. – The solution has a working risk assessment page that allows for error checking such as the user being unable to book 2 weeks since their last appointment, the user is unable to book the same appointment time and the login details must be valid. This is saved into the SQL database if the details are correct.
- The solution must have a policy page. – The solution includes a policy page ready for further implementation.
- The solution must have a terms and conditions page. – The solution includes a terms and conditions page ready for further implementation.
- The solution must have a register page. – The solution has a working register page that has error checking and doesn't allow the user to register with empty fields, non-matching passwords, already used email, email not in the correct format, or if they haven't accepted the terms and conditions. This is saved into the SQL database if the details are correct.
- The solution must have a login page. – The solution has a working login page that allows the user to login from the details that they have registered with in the SQL database and allows for error checking if the details are invalid.
- The solution must have a profile page where the customer can set up their account or check for air quality or weather and get advice once they have logged in. – The solution has a profile page but this has now been changed that the user does not require account setup to access the weather and air quality features and can now do this straight away from the profile page.
- The solution must have a profile page for admins where their accesses are restricted and limited to their job role once they have logged in. – The solution is ready for the next implementation of admin accesses since the SQL database tables have already been created for this and so has the profile page.

- The solution must have already set-up admin accounts. – The solution is ready for the next implementation of admin accounts since the SQL database tables have already been created for this and so has the profile page.
- The solution must have an accessibility panel where the user can save their options and it will keep them once they leave and come back onto the website. – The solution has an accessibility panel that allows the users to select multiple checkboxes and is now ready for further implementation of the features and the saving feature.
- The solution must save accessibility options in an SQL database. – This is ready for further implementation since the accessibility panel and the SQL database table has been already created for this.
- The solution must be able to display all articles on the advice page. – The solution allows for the displaying of articles in a card style format on the advice page.
- The solution must have a set layout for every article page. – This has been already implemented with a card style layout.
- The solution must be able to display weather forecasting and conditions based off the weather on the home page. – This has now been removed and the only weather forecasting feature is implemented on the profile page. However, the weather feature is able to display conditions based off it.
- The solution must be able to update the home page new articles section corresponding to the new articles. – This is ready for implementation since the article SQL database table has already been created as well as the advice page and the article layout page.
- The solution must allow admin users to view articles, edit articles, delete articles and write articles. – This is ready for implementation with admin SQL database table being already complete and same with the profile page and login page.
- The solution must use SQL database tables for the articles. – The solution has an article SQL database table that is ready for further development with article integration.
- The solution must allow a user to book a risk assessment by logging in, entering date and time and then sending a receipt on customer's email. – This is all implemented except for the receipt option as this is ready for further development since the risk assessment information is already saved into the SQL database.
- The solution must be able to produce an error after a customer tries booking a risk assessment if they had a risk assessment in the last 2 weeks. – This has been implemented and helps the system error check and not overcrowd the appointments. This is done with the SQL database and checking if the user has an upcoming appointment.
- The solution must be able to save booked risk assessments to an SQL database. – This is already implemented with all the correct information linked up.
- The solution must be able to allow a user to register using their name, email, and password and they must sign the terms and conditions. – This is already implemented with correct error checking to ensure the user has registered with valid information.
- The solution must be able to allow a user to login, based off the saved data in the SQL database. – This is already implemented with the fetching of the data from the SQL database tables to allow the user to login and access the profile page.
- The solution must save sign up information that a customer has entered to an SQL database. – This is already implemented with the SQL database only updating if the information is valid and there are no errors.
- The solution must be able to save admin login information into an SQL database. – This is ready for the next implementation phase.
- The solution must allow the user to reset their password if they have forgotten it, and it

must be able to send the reset link using the customer's email. – This is ready for the next implementation phase.

- The solution must allow a new customer to login and setup their account by answering questions and these questions then must be used for customised health advice. – This has been removed and the user can view customised advice by just logging in and going to the profile page.
- The solution must save the answers for the setup feature in an SQL database. – This feature has now been removed and so has the SQL database table for it.
- The solution must allow the customer to be able to enter symptoms they are feeling and suggest environmental health issues based off that. – This is ready for next implementation since the button already exists on the profile page.
- The solution must save symptoms given into an SQL database. – This feature has been removed until further development.
- The solution must allow a logged in user to change settings such as password, email, delete account, view past bookings, view report history and to be able to filter it. – The settings and logout feature has been implemented but the settings are ready for further development.
- The solution must allow a user to filter for articles and search articles up. – This is ready for further implementation since the advice page has already been implemented.
- After a user has cancelled their risk assessment booking, it should free up a space on the date and time feature on the risk assessment page – This has been implemented and this uses SQL database.

Non-functional requirements:

- The navigation bar and footer should be clear and easy to read. – This is implemented and evidenced by the testers claiming it's easy to read.
- Fonts that have a hard readability shouldn't be used. – Clear and readable fonts were used as well as making the text bold.
- There should be an image on the home page. – The image has been implemented on the home page.
- There should be an image on the about me page. – The image has been implemented on the about us page.
- There should be an image for every article on the advice page. – This is ready to be implemented with the advice page already created.
- Articles should be laid out in a card style on the advice page. – This has been implemented with a 2x2 measurement.
- The articles should have accurate and fact-based information. – The articles have currently sample text and is ready for information integration.
- The risk assessment page should allow multiple users to book at once. – This has been implemented and run with the SQL database.
- The policies should be up to date. – This is ready for further development.
- The terms and conditions should be up to date. – This is ready for further development.
- The register page should have length checks and format checks on the email and password. – This is implemented since it doesn't allow the user to register with an incorrect email format and the password error checking is ready for further development.
- The solution should be able to allow multiple users to register at once. – This has been already implemented.
- The solution should be able to identify different users. – This has been implemented using the profile page which tells the user welcome and their name from the SQL database.

- The solution should be able to give accurate advice based off setup information once a user has setup their account. – This feature has been removed and is not implemented since the user can view customised advice without setup information now.
- The solution should be able to accurately give a customer environmental health issue diagnosis based off of symptoms inputted. – This is implemented since it gives a condition regarding to the air quality or weather quality as well as customized advice.
- The solution should have security so customers can't book another risk assessment for at least 2 weeks after booking one. – This is implemented within the risk assessment booking.
- The solution should be able to give useful options in the accessibility panel and not useless options. – This is ready for further development.
- The solution should be able to follow the WCAG 2.0 guideline. – This website follows the guidelines since I have used a checker that has said I have met all the requirements and multiple testers have given the same feedback. I have also implemented an accessibility panel for this.
- The solution should follow the GDPR guidelines. – This solution follows GDPR by forcing the user to accept the terms and conditions before they sign up as well as having policy implemented.
- The solution should have quick response time and load fast. – This solution has this.
- The solution should be secure against DDOS attacks. – This solution is secure against attacks with error checking features and validation.
- The solution should be able to be easily maintainable. – This solution is easily maintainable with comments and indentation with correct naming conventions implemented.
- The solution should have a responsive web design to make sure it renders smoothly on all devices. – This has been implemented and tested thoroughly to make sure it's accessible to everyone.
- The solution should keep any customer information private and secure against attacks. – This is implemented since it's stored in the SQL database.
- The solution should have no faults or pages that don't load. – There are no bugs that any testers have found or that I have found and every page loads correctly.
- The solution should be able to be scalable if customer amount increases. – The solution is scalable for future use.
- The solution should be supportable on different browsers. – This solution has been tested and operates on multiple browsers.
- The whole solution should have consistent layout, clear colour theme and readable text. – This solution follows this and this is supported by the testers claiming they like the layout.
- The solution should have clear headings, buttons and links that accurately tell the user what the page will consist of. – This solution follows this and allows the user to have efficient user experience.
- The solution should have clear images depicting and representing Health Advice Group. – This is supported by the testers claiming that the images relate to the brand and the community of Health Advice Group.
- The solution should clearly show designated errors when the user registers and doesn't meet conditions. – This is implemented since the SQL database is not updated if the user receives errors.

Key performance indicators (KPIs):

- Number of customers signed up to the website. – This has been checked by the testers claiming they were able to sign up and that the prototype allowed for effective sign up.

- Number of customers using the website per month. – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Cost to maintain the website after deployment. – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- How fast risk assessment appointments are fully booked. – This is ready for further implementation and checking since the website is complete. The risk assessment booking page contains a lot of error checking so this would be an efficient way to manage performance.
- How many risk assessment appointments are booked per week. – This is ready for further implementation and checking since the website is complete. The risk assessment booking page contains a lot of error checking so this would be an efficient way to manage performance.
- How many people use the accessibility panel. – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- How many people use customisable features (checking for air quality/weather/symptoms) – This is ready for further implementation and checking since the website is complete. The APIs contain error checking to make sure that the city is accurate and available to find data from. This cannot be checked yet due to the website not being hosted.
- How many inactive accounts are signed up. – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- How many people view specific articles based on customisable features (checking for air quality/weather/symptoms) – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Page response time – The page response time is very efficient and quick.
- If any attacks on the website have occurred – No attacks have occurred since the website was not given to anyone and only a demonstration of it.
- Most viewed articles within a month – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Number of risk assessment professionals employed to risk assessment appointments booked ratio – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Website abandonment rate – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Number of minutes customers spend on average, in a day, on the website – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Number of logins per day – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Number of customers setting up their account in a month – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.

- Number of customers deleting their account – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Number of articles released per month to customer engagement ratio – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Number of people attending their risk assessment appointment bookings to risk assessment appointment bookings ratio – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.
- Reviews on the website – This is ready for further implementation and checking since the website is complete. This cannot be checked yet due to the website not being hosted.

User acceptance criteria for the proposed solution:

N/A

How the prototype could be developed further:

The prototype can be developed further by one user mentioning a cookies pop-up on the browser which would help more users to accept and view the terms and conditions as well as the data that is being collected on the user. Another feature a tester wanted to see is, an audio feature to help people that are visually impaired and allow for the text to be narrated to them. This would relate to the Web Content Accessibility Guidelines. Furthermore, a tester said they wanted to see a weather forecast feature for the next few days so customers can plan out what to do from the temperature and weather forecasts. The symptom feature should also be implemented next allowing the users to input their symptoms and answer a few questions about it and it would allow for the accurate diagnosis of their condition as well as displaying articles relating to it. This would allow for more engagement with the users.



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