T-LEVELS | Institute for Apprenticeships & Technical Education

Lead Examiner Report

Summer 2023

T Level Technical Qualification in Digital Production, Design and Development- Occupational Specialism

Pearson

Introduction

This was the second complete assessed series of the Occupational Specialism that took place.

The tasks set out in the assessment followed the format identified in both the Sample Assessment Materials (SAM) and the Additional Sample Assessment Materials (ADSAM) published on our website.

This assessment consisted of four distinct tasks that required students to demonstrate their understanding of a wide range of topics from the prescribed curriculum and apply their knowledge to real-life situations.

The majority of students this series were new students with only one resit student. The number of marks available was 145. The lowest mark achieved by students was 0 and the highest was 128. The mean mark was 70.11 which was a decrease of 2.46 from the previous series mean mark which was 72.57.

Individual questions

The following section considers each question on the paper, providing examples of popular student responses and a brief commentary of why the responses gained the marks they did. This section should be considered with the live external assessment and corresponding mark scheme.

Task 1- Activity A (ii) The Proposal

When creating a digital Distinction Portfolio, it is important for the student to analyse the problem and develop a detailed proposal that is relevant to the scenario.

The proposal should highlight the problem to be solved and how it will benefit the client and users. It should not provide explanations of functional requirements or legal terms.

Additionally, the student should identify any risks associated with the proposal and propose ways to mitigate them.

The following example showcases some critical elements and traits associated with achieving a Distinction.

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.

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 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.

Decomposing the problem-

The student has attained a Distinction level and demonstrated an exemplary ability in identifying and methodically dissecting problems. The solutions proposed by this student were client-centric and user-oriented, with each decision backed by comprehensive justifications. Notably, this student expertly highlighted potential risks associated with the development phase and intricately connected these to the legal aspects of the specific scenario.

The student exhibited an in-depth understanding of the broader issues related to the given scenario. They astutely addressed risk mitigation strategies and weighed the implications of legal requirements on the organization. This displayed the student's adeptness in perceiving the larger context and understanding the interconnectedness of various elements. It underscored their strategic approach and the ability to anticipate future challenges.

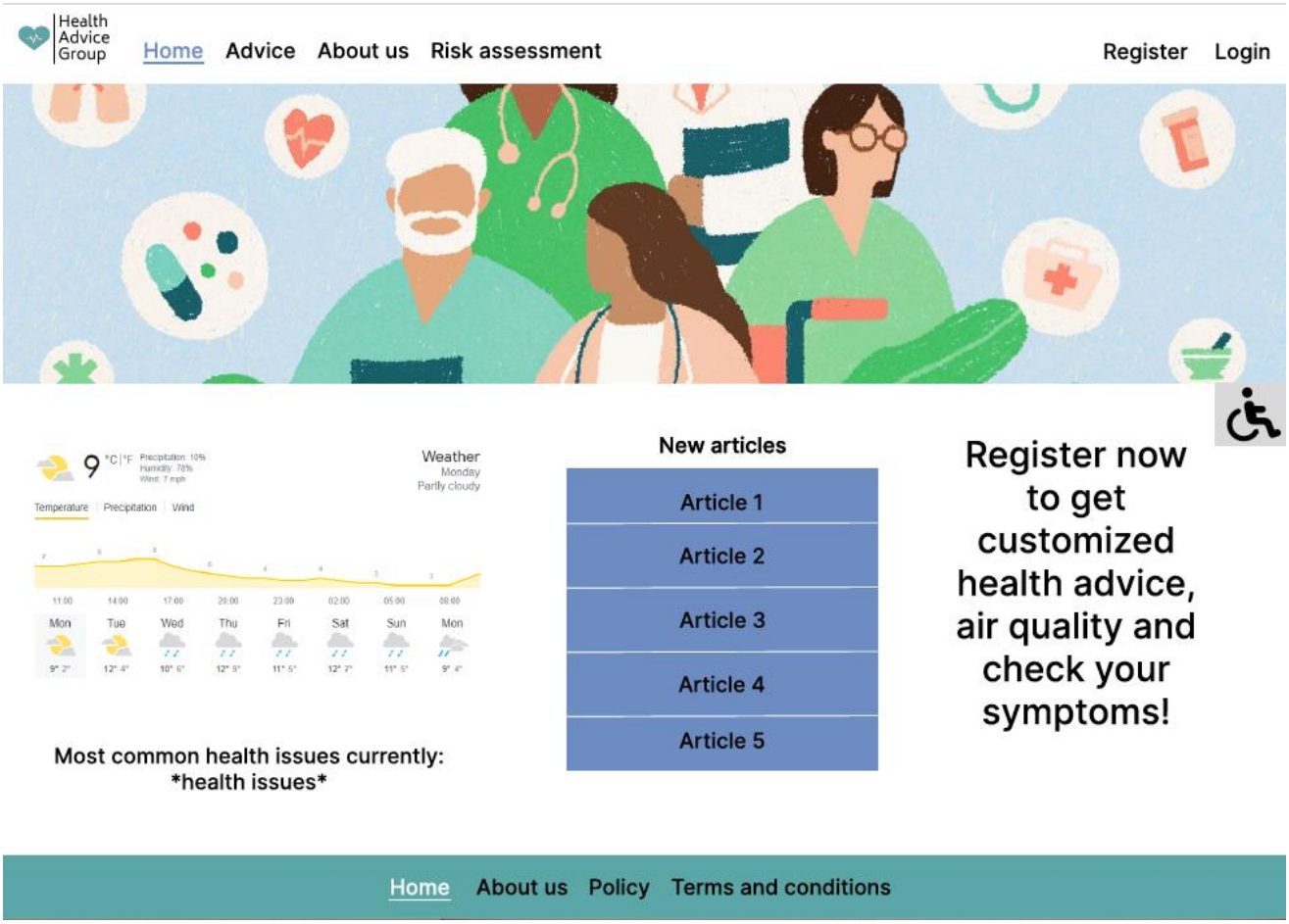
The Distinction level student showcased their in-depth understanding and good ability to construct a detailed and comprehensive data dictionary. This data dictionary was meticulously structured and encompassed each data pertinent to the system.

The student demonstrated a knack for data organization and understanding its importance in software development. Each data element within the dictionary was precisely defined. Including attributes such as data types, size, format, and valid values or range.

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	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

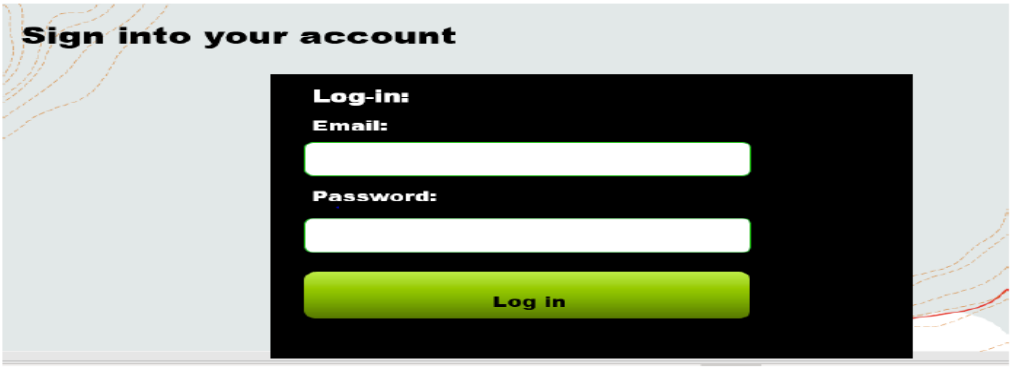
This is an example of a strong student who has supplied an array of intricate and persuasive design blueprints. This evidence is comprehensive and meticulously detailed, providing sufficient guidance for a third party to replicate the artefact from scratch completely. The student has extended their deliberation to encompass the complex structure of the website, considering multiple web page specifications such as explain the background colour, the variation in text sizes, and the nature of typefaces employed.

What stands out in this student's efforts is their dedication towards providing clear layouts establishing a coherent visual hierarchy and abiding by standard conventions. These elements are crucial for a seamless user experience and optimal information flow.



It has been observed that some students could have performed better in this section. This was mainly due to their poor visual designs, which did not follow typical conventions. To create an effective website, web developers must include detailed such as text sizes, colours, and other descriptive features in their designs. These omissions highlight the important of a detailed and comprehensive approach to website design. Below is an example of a weaker student response.

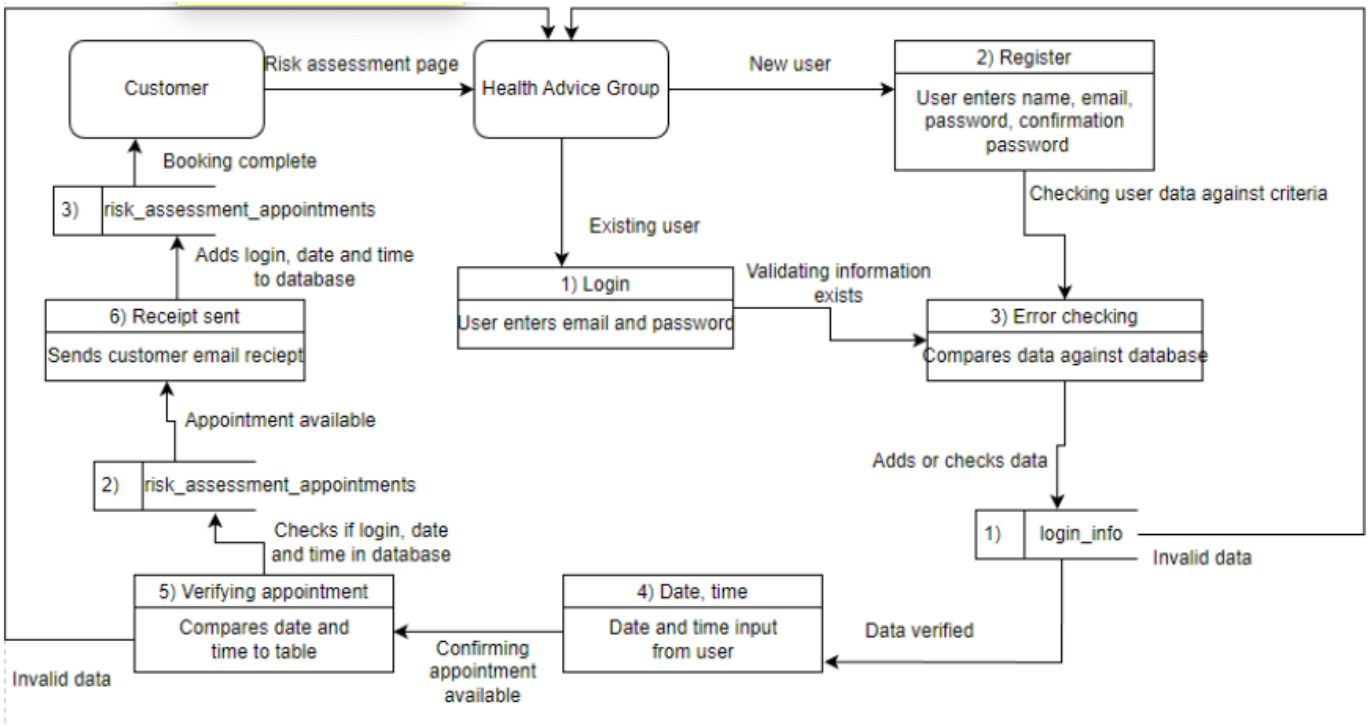
user interface design document



The stronger student below has proficiency in deconstructing the complex problem of creating a health application. The student successfully identified key inputs such as User ID, specific health metrics (e.g. heart rate, blood pressure, daily steps), and user goals.

They designed the required processes clearly: validating the user, interpreting health metrics, comparing data with user goals, and generating health advice based on this data. They also accounted for potential outputs like progress reports, health suggestions, error messages, or goal achievement notifications.

The student went a step further by converting these elements into a well-structured pseudocode, reflecting their solid understanding of decomposing tasks and managing different aspects of a health application. This approach enables them to handle the complex task of developing a health app with meticulous detail and thoroughness.



```
//-------------------------------------------------------------------------------------------------//
login page is displayed
// login screen displays a username and password input, as well as a button to sign up. There is also
a back arrow to return to the previous screen. //
if (username and password input are correct)
{
        display ("Login successful!")
}
else if
{
        display ("Username or password was incorrect. Please try again.") and do nothing
}
else if (user clicks on sign up button)
}
```



```
        opens sign up page
}
else (user clicks return arrow)
{
        user is returned to previous screen
}
//-------------------------------------------------------------------------------------------------//
```

The weaker student has primarily attempted to decompose the complex task of developing a health application, albeit with somewhat superficial coverage of the required inputs, processes, and outputs. The student recognized some primary inputs, such as user password, but should have considered other essential data like database, and security.

The processes were partially outlines, with efforts to validate the user and interpret health data, but a lack of detailed understanding of these procedures was evident. They managed to identify generic outputs like simple login but overlooked the complexity of various system responses.

In terms of algorithms, they constructed basic pseudocode that reflected some logic and structure, but it appeared inefficient and needed more explaining for a complex application like this. Their use of accepted conventions in the pseudocode was evident, but inconsistencies still existed.

```
START
INPUT password AS A STRING FROM KEYBOARD
IF password == 7 or more THEN
SEND 'Password valid to this point' TO DISPLAY
ELSE
SEND 'Please enter a valid password'
END IF

IF char IN password == upper case
SEND 'Password valid to this point' TO DISPLAY
ELSE
SEND 'Your password must contain 1 upper case character to be validated.' TO DISPLAY
END IF
```

The leaner, seen below, has proficiently articulated a test strategy for the testing phase, demonstrating a deep understanding of comprehensive testing techniques such as Whitebox and Blackbox testing.

It was essential to outline which testing method was deployed at what stage during the artefact's development, and the student showcased admirable preparedness in this respect. It's important to note that this segment is not about developing a test plan, an entirely separate stage that follows once the testing strategy has been full executed.

However, it was observed that students who scored lower marks often jumped ahead to creating test plans without giving due thought to the overall testing strategy. Such an approach can lead to problematic situations where the test plans are drafted after the testing phased has commenced. This could result in ineffective testing and possibly overlook critical issues in the artefact.

Test Strategy

Date of Test	Component to be tested	Type of test to be carried out	Prerequisites and dependencies
******	Login page	Does the login page function. Once logged in user goes to the dashboard.	Must be able to function fully.
******	Dashboard data	Is the data displayed correctly on the dashboard.	Data must be displayed. Make sure the dashboard fully functions.
******	Signup	Does the signup page function. Allows a user to create an account.	Must allow user to create an account. Then go into login.
******	Weather data	Is the data displayed & does it function	Data must be displayed static or not. Non static would be nice.
******	Settings	Can any of the setting function. Make sure that all the setting are visually there.	At least one setting must function. Two working would be nice.
******	Navigation	Create a functioning navigation bar. Each page must be accessible from the nav bar.	All pages must be linked to the dashboard and to each other via the nav bar.
******	Settings page	Does the page open, can you return to the previous page, does the subpages open	Settings page must be able to open from any page, must be able to return user to previous page
******	Sign up messages	Does the message for successfully sign-up show, does the message for failure to sign-up show	Both successful and failure messages must be displayed correctly after user completes the sign in process.
******	Once the user signs up is there a return option	Does the user have to press a return button or do they return once successfully signing up	User must be able to return to login page
******	Exit the application	Is there a button to exit the application	User must be able to exit the application at some point

The weak example, seen below, was marked by a noticeable lack of consideration towards the consequences of any decisions made during the testing phase. In addition, they appeared to overlook the inclusion of relevant contextual data. This lack of attention to detail and failure to consider all aspects of the testing phase can lead to flawed testing strategies that don't adequately assess the quality of the artefact.

Date of test	Component to be tested	Type of test to be carried out	Prerequisites and dependencies
	Login page: when the password doesn't meet the requirements of an error message will show	Black box testing	Need access to the internet for the website to work, input a valid message
	Login page: when the password and the confirm	Black box testing	Need access to the website computer

Task 2

In this area, students can demonstrate their understanding by providing reasoned justifications for the approaches used. This could include considerations such as their approach to a solution. They must use two different programming languages. The most popular languages used for this series were Python, PHP, JS and SQL, which is why specific server options were considered.

Justifications and depth are essential, so not only writing the code on multiple parts of the project; this is where students can justify the decisions by adding comments on the code. It was also advantageous if the completed solution was either a saved package ready to execute or students could provide a video which must be narrated.

Regarding the legal and regulatory guidelines and standards, students must demonstrate how the website would be viewed in different browsers, they can validate the code on the W3C website. This will let students know what needs to be added to view the website as expected, no matter which browser.

We are considering using usernames and passwords, cookie notification, and two-way authentication for security controls. This provides evidence for legal and ethical considerations.

Very weak examples tended to describe what had taken place instead of providing clear justifications for approaches taken. They tended not to add comments. The code was linear in structure with lots of errors and was a partially working solution.

For this task, the stronger student, whose work can be seen below, has demonstrated outstanding proficiency in creating a prototype for the health information system, thus earning a Distinction. This superior performance is exhibited in their multi-language code efficiency, precise use of logic and programming structures, and emphasis on code maintainability.

Implementing functional code in at least two languages showcases the student's versatility and breadth of knowledge in programming. Consistent efficiency in this code points to their ability to select and use the most appropriate language for other aspects of the system is a hallmark of a highly skilled developer.

The use of precise logic and programming structures through the prototype demonstrates the students profound understanding of algorithmic thinking and structure programming. This precision has resulted in consistently correct outcomes, indicating that the system behaves as expected under various conditions, further enhancing its reliability.

Code maintainability has been a clear focus, reflecting the student's foresight. Their consistent use of appropriate naming conventions facilitates understanding the code's purpose and functionality. The logical organization of the code makes it easy for third parties to navigate and understand the structure and flow of the program. Informative commenting is a valuable tool they have employed proficiently, clarifying the purpose and function of complex code segments, making it easier for others to understand, maintain, and update the code.

```
 <?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> ';

    `


<?php
// check if the form was submitted
if (isset($_GET['city'])) {
    // set API endpoint and parameters
    $endpoint = 'https://api.openweathermap.org/data/2.5/weather';
    $params = array(
        'q' => $_GET['city'],
        'appid' => 'f4a46fa938ebc05fb45bd1022a72524b',
        'units' => 'metric'
    );

    // build query string
    $query = http_build_query($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>';
    }

}
?>
```

```python
def __init__(self):
    self.database = "database.db"

def connect(self):
    self.conn = sqlite3.connect(self.database)
    self.cur = self.conn.cursor()

#query is for reading data or any other commands that dont need to e commited
def query(self, query):
    self.connect()

    result = self.cur.execute(query)

    res = result.fetchone()

    self.disconnect()

    return res

#commit is for commands that need to be commited
def commit(self, query):
    self.connect()

    result = self.cur.execute(query)

    self.conn.commit()

    return result

def disconnect(self):
    self.conn.close()
```

Text

Description automatically generated

```python
def disconnect(self):
    self.conn.close()
```

Next step is that I need a file to handle all the server logic and for this reason I have made a file called module.py the role of this file will be to handle all the general server-side logic so that it does not cluster up the rest of the code. This way the server code stays neat and readable.

module.py

module.py > module > __init__

```python
from db import *
import hashlib

class module():
    def __init__(self):
        pass
```

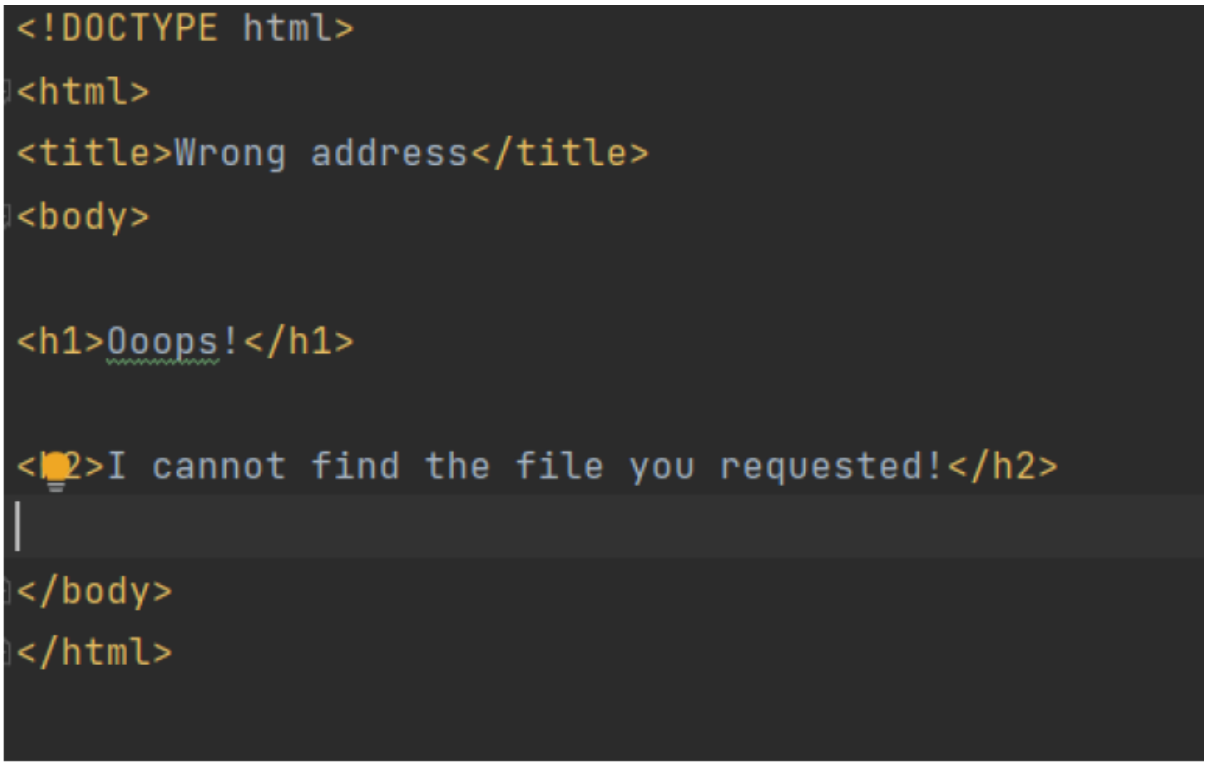
Hashlib is a hashing module for python which I will need for hashing sensitive data like passwords.

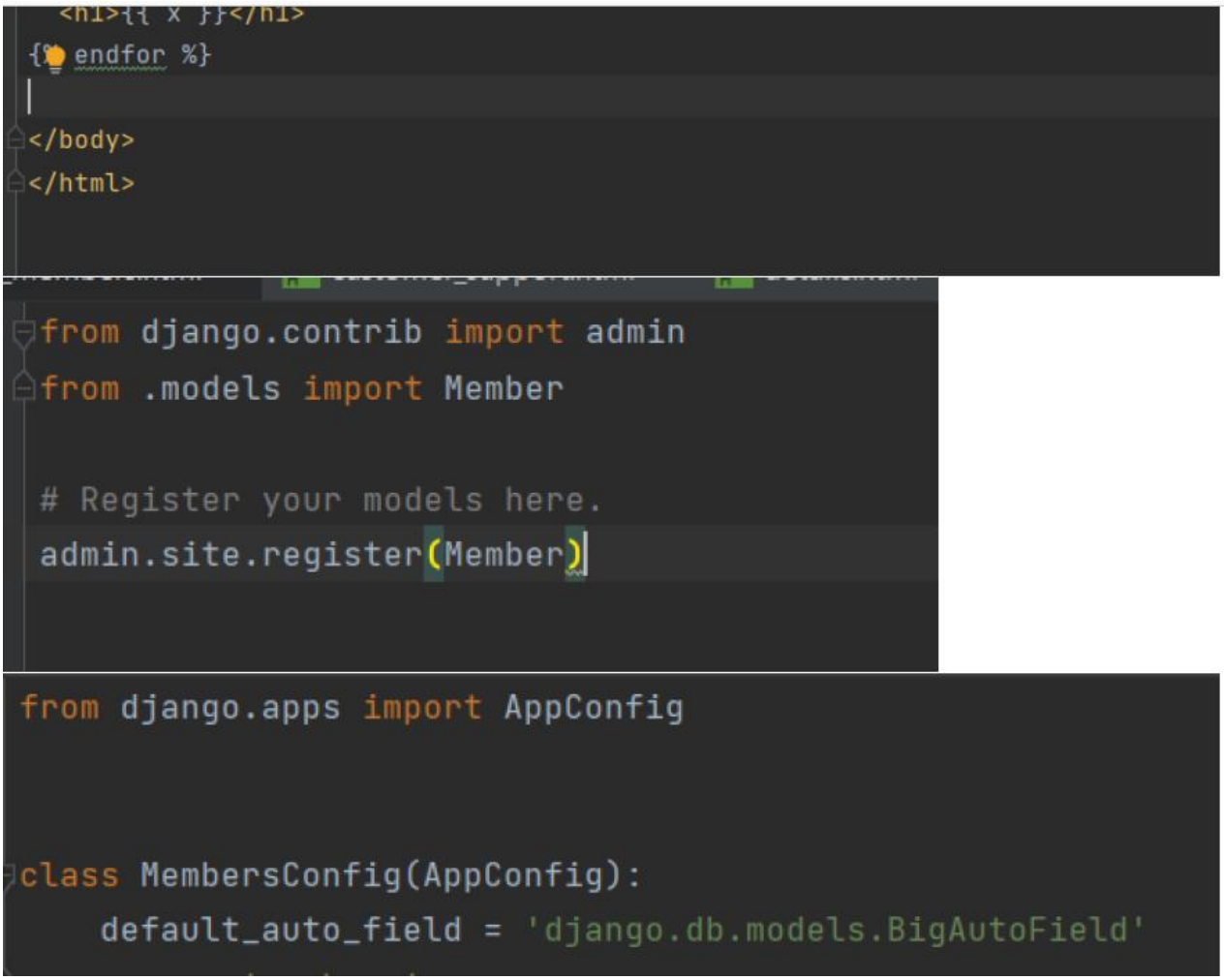
This is an example of a weaker student. This student has tried to construct a prototype for health information system, thus completing the task. This initial effort is visible in their attempt to write code in more than one language, use logic and programming structures, and give some consideration to code maintainability.

Their attempt to write code in two languages demonstrates the student's willingness to explore different areas of programming. However, there needs to be more efficiency in the written code, indicating that they are in the early stages of understanding how to use the features of carious languages optimally. Further study and practice will likely enhance their ability to select and use the most fitting language for different aspects of a system.

The prototype's use of basic logic and programming structures suggests the student's initial room for more precision to ensure consistently correct outcomes.

There are some signs that the student knows the importance of code maintainability. Their use of naming conventions and code organization is essential and could benefit from further refinement for clarity and ease of understanding. The use of comments in the code to explain its purpose and function needs to be fully ultilised and should be encouraged as a helpful tool to enhance understanding, maintenance, and updates of the code by others.





```
<h1>{{ x }}</h1>
{% endfor %}

</body>
</html>
```

```
from django.contrib import admin
from .models import Member

# Register your models here.
admin.site.register(Member)
```

```
from django.apps import AppConfig


class MembersConfig(AppConfig):
    default_auto_field = 'django.db.models.BigAutoField'
```

In the good example below, the student has show exceptional competence in software testing, earning a Distinction for their work on the health information system. This proficiency is displayed in their selection of tests, their ability to identify and rectify problems, and their use of an effective iterative development process.

Their chosen tests show a thorough and detailed understanding of effectively testing the system's inputs, calculations, validations, and processes. They've intelligently employed different types of test data- normal data to ensure the system functions appropriately under usual conditions, erroneous data to check the system's resilience and error-handling capabilities, and extreme data to validate the system's behaviour under unusual or stressful situations.

The student's comments fully understand how they identified and rectified issues. This is evident in their handling of inputs, where they've shown a deep understanding of both expected and unexpected user inputs. They've exhibited excellent debugging skills for calculations, ensuring that the application's logic always provides accurate results. Validation and processes have shown the ability to rectify errors, guaranteeing that the application checks data integrity and correctly follows the intended operational procedures.

Furthermore, the student's testing approach provides evidence of an effective iterative development process. They've adopted an incremental development cycle, testing each change, and refining the system based on test results. This approach improves code quality and makes debugging easier, underscoring the student's understanding of software development.

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.

In this weaker example, it was evident that the leaner leaned heavily on the Integrated Development Environment (IDE) to spot syntactic errors, but their efforts often halted at this point. This over-reliance on the IDE led to a superficial engagement with the code, limiting their ability to identify or rectify deeper functional issues.

They didn't display an awareness of the broader functionality of the code, such as testing inputs and outputs and the integral role of validation and verification processes in assuring the codes functionality. The absence of this critical understanding stunted their ability to maintain a clear record of the actions undertaken to address the issues they encountered.

Task 2: Test log

Description of test	Test data to be used (if required)	Expected outcome	Actual outcome	Comments and intended actions
Testing		If more than 255 characters are entered when entering a password then it will output an error message	When I entered more than 255 characters, it came up with an error message.	Date tested: 12/03/2023. There were no further intended actions needed.
Launch applications		This testing is to ensure that when a user clicks onto the webpage, it takes them to the homepage	When i clicked onto the website, it took me straight to the homepage	Date tested: 15/03/2023. Launch was successful so there was no need for any further action.
Testing phone numbers	I entered a 4 character phone number	The average character in a phone number is 11, when I enter 4 characters it should output an error message and tell the user to enter a valid phone number	When the wrong amount of characters were entered, there was an output message given	Date tested: 15/03/2023. Launch was successful so there was no need for any further action.
Test adding members	Add member Angela Wakeman	Expected outcome for adding members is to add members with their personal information	Actual outcome, all of the information to the member wasn't added correctly	I have now added the right code needed to save the information correctly

Task 3a

This example is of a strong student. Their review of the effectiveness of the selected content was comprehensive and meticulous. They demonstrated a profound understanding of the importance of choosing appropriate assets and sourcing reliable and valid information. Moreover, they understood the legal and ethical implications of using the identified assets.

Their review was well-supported, with practical considerations, comparisons, and corroboration across multiple sources, underscoring their analytical skills and attention to detail.

The student also conducted a thorough and detailed evaluation of the prototype, considering how well it meets the functional and non-functional requirements of the system, key performance indicators (KPIs), and user acceptance criteria. This holistic evaluation approach indicated the student's ability to assess their work from multiple perspectives and against various criteria. It highlights their ability to not only meet the explicit requirements of the system but also to consider broader factors such as user experience, system performance, and alignment with project objectives.

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

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:

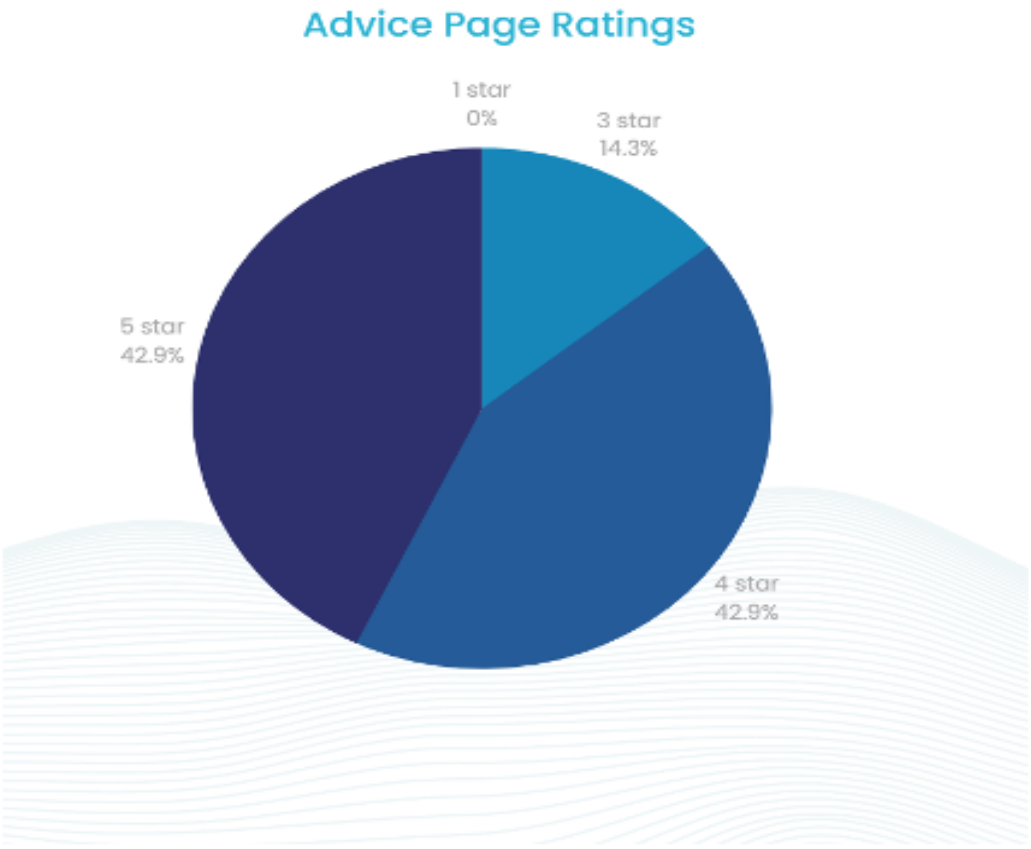
Many have claimed that the accessibility panel needs to be a lot more visible with possibly arrows pointing at it, many have also said that the image conveys the website branding. There were many responses claiming that there is too much white space, and they could be filled with more articles. Additionally, 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.



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

The stronger student has successfully developed a prototype and deployed various tools to collect high-quality feedback on different system elements. This satisfactory performance has allowed for a constructive feedback loop that consistently offers opportunities for evidence-based improvements.

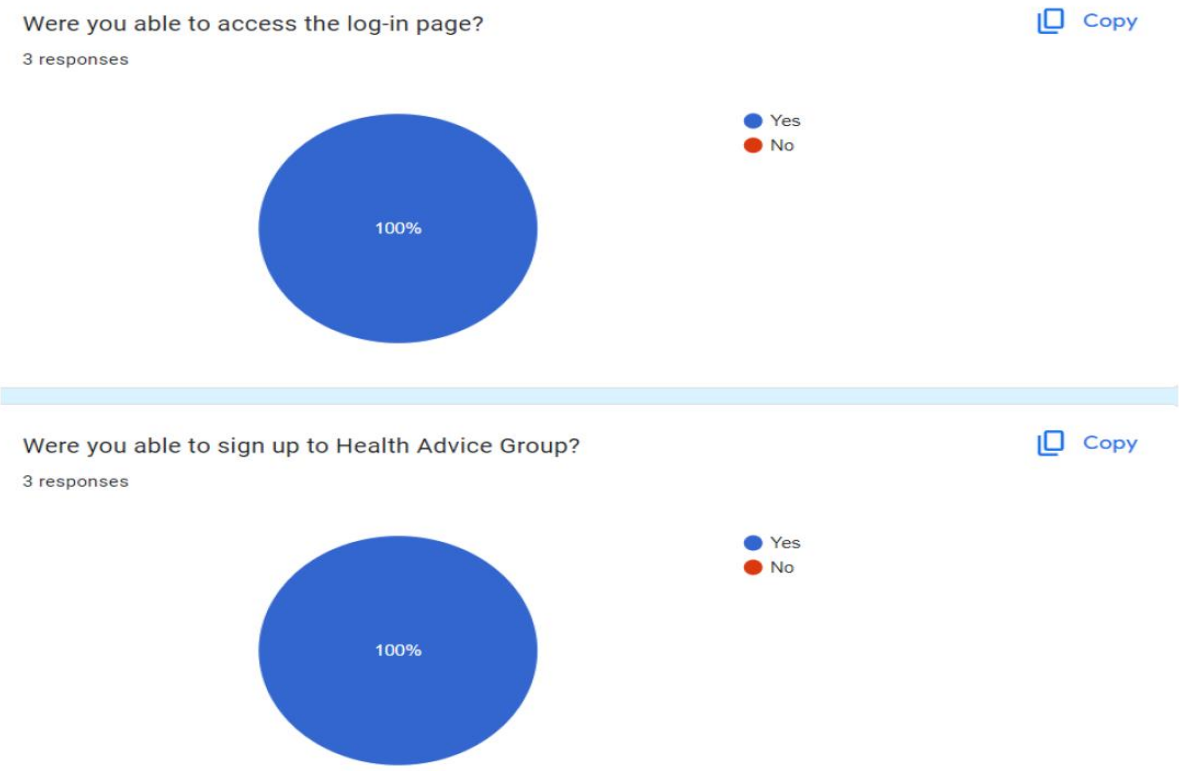
Their approach to gathering feedback shows that the student knows the value of continuous evaluation and the role of end-user experience in system development. The application of various tools has proven successful in facilitating the capture of high-quality feedback, demonstrating their competent understanding of user experience testing methods.

The feedback collected has consistently provided the student with valuable insight, driving iterative improvements to the prototype. Their capability to integrate feedback and iterative on their work underscores a vital strength in modern development environments- adaptability. The students focus on evidence-informed enhancements displays a commendable commitment to data-driven decision-making and a deep understanding of the iterative development process.

This is an example of a weaker student. They have attempted to create a prototype incorporating some mechanisms for gathering feedback, although these still need to capture high-quality insights effectively. This preliminary step demonstrates an initial understanding of the importance of user feedback in system development, but there is room for significant improvement.

The tools used by the student in their current approach have resulted in feedback of only adequate quality. This suggests that their understanding of the role of end-user experience in system development is in its early stages. Further refinement of their feedback-gathering methods could result in more insightful and actionable input.

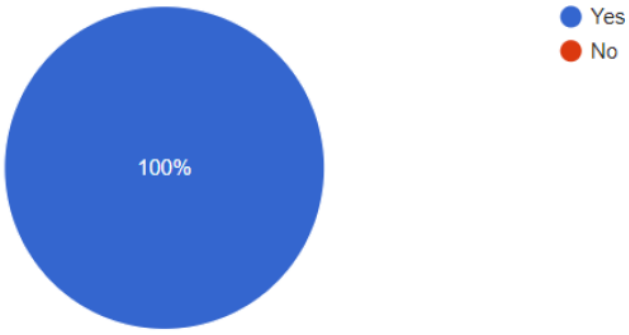
The quality of feedback collected thus far indicates that the student may need to understand better and implement practical tools and strategies to gather detailed user responses. Focusing on this area would likely lead to more comprehensive feedback and, thus, more precise direction for improvements to their prototype.



Technical user

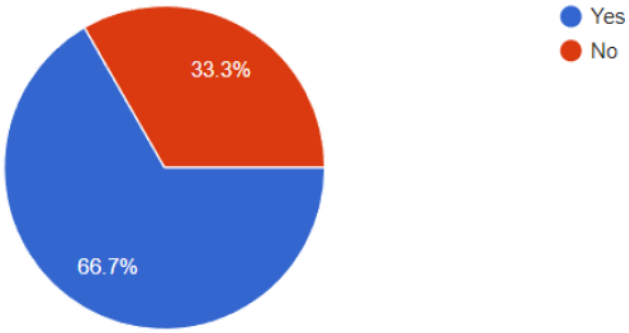
Were you able to access Health Advice Groups website?

3 responses



Were you able to access customer support page?

3 responses



Task 3b

Students are responsible for providing the resources used in the project and verifying their authenticity. They must ensure all assets comply with copyright laws and justify the selection. The choices made should be relevant to the scenario provided, explaining why a specific asset was used on the website page and how it improves the user experience.

The evaluation process was suitable and revealed a comprehensive understanding of the demands outlined in the task brief. Typically, students at this level offer evaluative commentary regarding the task requirements. However, on the threshold of distinction, the evaluations often needed to be revised to consider the user's needs effectively.

Students must recognise that user needs should be at the forefront of their design decisions and evaluations. The effectiveness of their work hinges on how well it caters to the end user's requirements. So, while understanding the task requirements is crucial, understanding and considering the user's needs in both the design and evaluation stages is equally essential.

The student work below is an example of a strong response. The appropriateness of the assets selected was duly evaluated. The student displayed an ability to critically analyse the relevance and suitability of these resources within the context of the task. Their understanding of how each asset contributes to the whole and their ability to select the most fitting ones for their project suggests a strong grasp of content curation.

Regarding the validity and reliability of the sources, the student has shown a rigorous approach. They have exhibited a good understanding of how to discern credible information from less reliable sources, ensuring the data used was current and of a high standard. This demonstrated their ability to distinguish between reputable sources and those that may be biased or incorrect.

The student also considered the identified assets' legal and ethical implications. They showed an awareness of copyright laws, permissions, and the ethical aspects of using others' work, ensuring that all assets were used legally and ethically in the context of their project. This demonstrated a responsible approach towards the use of third-party materials and a respect for intellectual property rights.

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 accessibilities 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 relates 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.

This response is from a weaker student. This student, with limited expertise, has provided a fundamental assessment of the initial model, discussing its compliance with practical and non-practical prerequisites, important performance metrics and criteria for user approval.

Regarding functional and non-functional requirements, the student has carried out a cursory examination of how the prototype aligns with these factors. They've provided an initial understanding of how well the system performs specific tasks (functional requirements) and evaluated system attributes like reliability and usability (non-functional requirements). However, the evaluation could benefit from a more in-depth and nuanced analysis to fully understand how well the prototype meets these requirements.

conclusion

In conclusion, I find that I'm happy with the general functionality of my website and how I've spaced the content out across the page as well as how the homepage looks. It also seems users agree with that so I won't try to change that too much when making improvements however, I will put some though into changing the look of my website. I will look into changing the colour of Health Advice Group so that it's easier for users to be interested. As for the majority of the improvements, I will make sure that the users accounts work correctly and that the website is functional.