

WEB PROGRAMMING A1

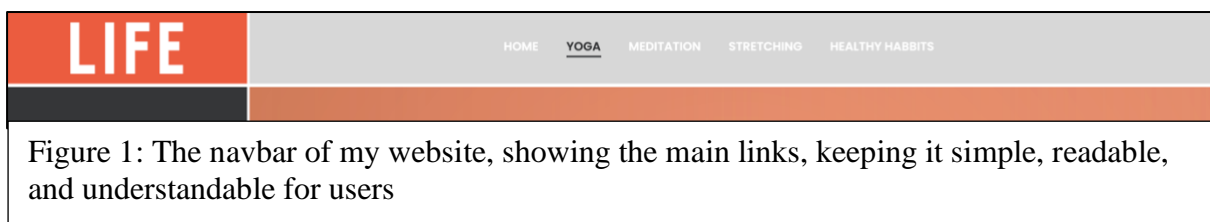
LIFE – Health and Wellbeing Website

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Part A: Which links must be placed in the navigation bar? Justify your answer by providing examples. Be realistic in your answer as you will have to program these features as a part of website creation. Your answer should not exceed 1-2 page(s)

As the website revolves around the idea of 'health and wellbeing', it is imperative to have relevant links on the page such as home (index.html), yoga, meditation, stretching and healthy habits. I chose to use these links on the website as I aimed to make it simple, brief, and helpful. These options were chosen as they are simple and make it simple and clear for the user to read and understand the links that they wanted to press on. In regard to 'brief', the following links are brief to make it simpler for users to read and comprehend, for example the link is written as "yoga" opposed to "click here for yoga". Additionally, I aimed to make the links helpful by keeping it simple to avoid users from creating questions but simply answering them with vague understandable links.



As seen in figure 2, the following navbar lacks the elements of readability, helpfulness, simplicity and brief. From the following figure, we can see the lack of simplicity which makes the information that is trying to be presented difficult to read and understand thus making the communication of

the website lacklustre. Next, the element of 'brief' is not followed making it difficult for the user to navigate the website effectively. Lastly the website's links are unhelpful and uninformative, for example the links on the navigation bar are unclickable thus making it hard for the users to understand and navigate the website, simply creating questions opposed to answering them. This, example demonstrates a bad example of a navbar with unhelpful and irrelevant links.



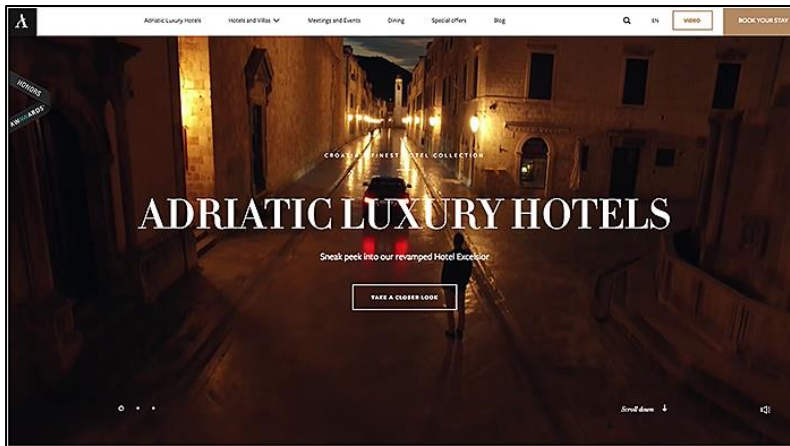


Figure 3: The website www.adriatic-luxuryhotels.com, used to demonstrate an example of an exceptional navigation bar and elements, which will be used within my website.

Figure 3, demonstrates the use of a clear and helpful navigation with relevant and brief links that are understandable and readable for the viewers. The website of Adriatic luxury hotels (<https://www.adriatic-luxuryhotels.com/>) demonstrates the elements of simplicity, brief and helpfulness in a presentable fashion. As shown, the element of simplicity is

shown by having links such as 'hotel and villas', meetings and events, dining, special offers and language settings, this assists the users in what they are going to presented with when clicking the particular links within the navigation bar.

Part B: What kind of content should be placed in the main content area of the website to facilitate wellness of clients? Justify your answer by providing examples. Be realistic in your answer as you will have to code these features as a part of website creation. Your answer should not exceed 2-3 pages.

The homepage of my website (index.html) will highlight some main healthy lifestyle choices through the use of repetition of the navigation bar. I have included hover able effects, clickable images, and div's.

As shown in figures 4, 5, and 6, the website mint.com possesses a good visual representation of information. The website begins with presenting a brief description of the platform in clear bold text, then re-presenting the links in the navbar within content area in main page, this allows the users comprehend what content they will receive when clicking on the links. The website also presents effects and animations while scrolling, which entices the user and promotes them to continue to discover more about the website. The elements of hover able effects and animation

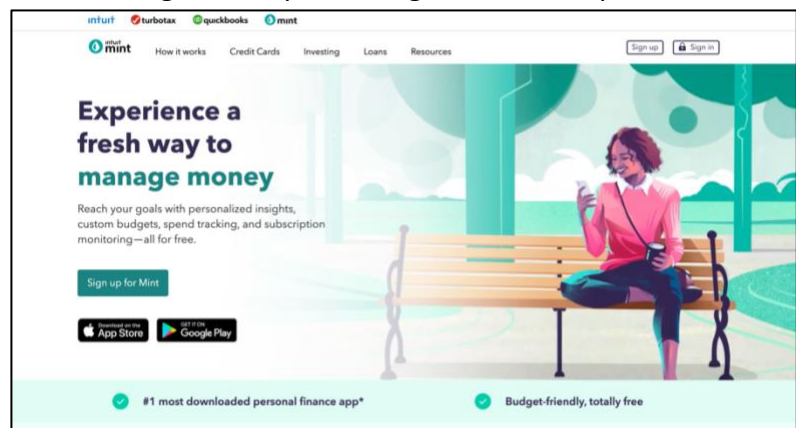


Figure 4: The website www.mint.com home page, used as example of a good homepage

strongly strengthen this website which will be used to make my users more enticed.

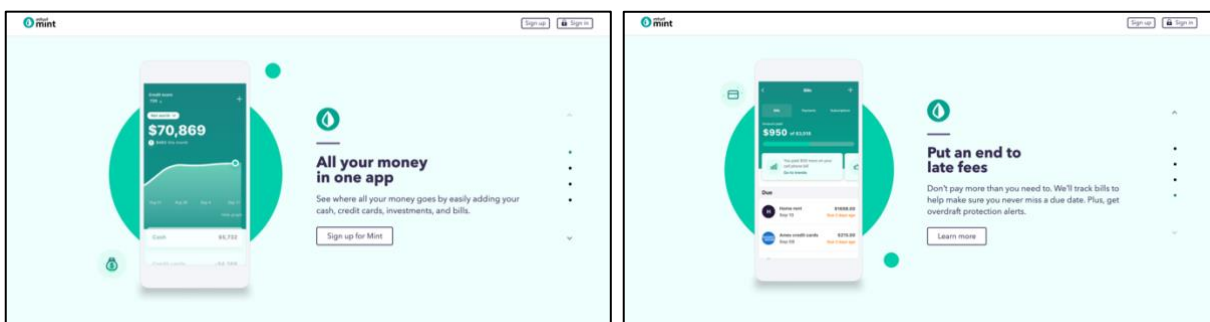


Figure 5 and 6: The website www.mint.com main index.html, used as example of a good homepage with repetition of information that is presented on the navigation bar.

The main sections of my page are a general description of the website and what it provides, as well as main pages of the website such as 'yoga', 'stretching' and 'meditation'. These brief descriptions of each section promote readability and intrigue users to further explore my pages. Specific categories for wellness were chosen based upon the principles implemented by the mint.com

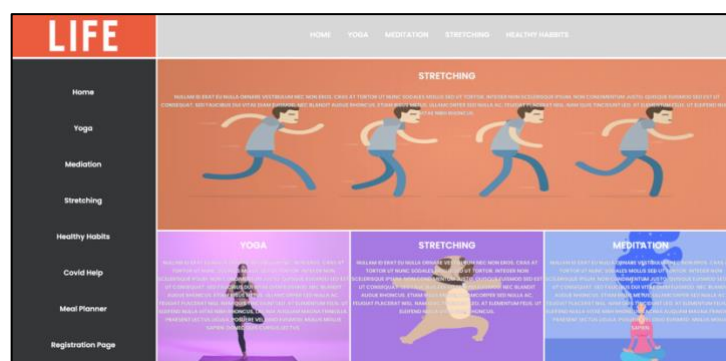


Figure 7: The Life website's Home page, displaying a small amount of information in div's

website such as, brief descriptions of content paired with informative information. Figure 5 shows an example of the use of div, including a short description of the content that will be included within the website.

The main screen of my website will also incorporate the use of mild hover animations, like what is shown in figures 4, 5 and 6. Using hover effects product fully demonstrates different perspectives and highlights key features. Such an implementation, even on a minor level, can significantly improve the static of any website, drawing attention to a few main aspects. For my website these are the 'yoga', 'meditation' and 'stretching' sections. My 'Life' website will have image and link hover effects to grab the user's attention and direct them to the location within the website (Seen in figure 8 and 9).

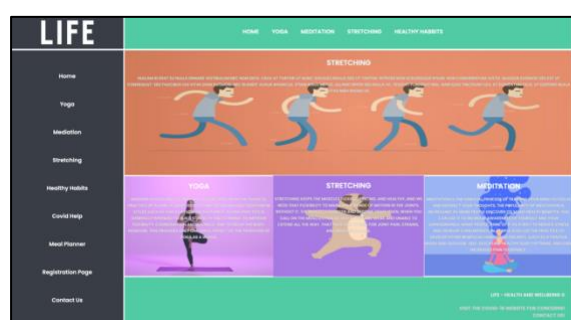


Figure 8: The use of a mild zoom effect when hovering over the stretching page.

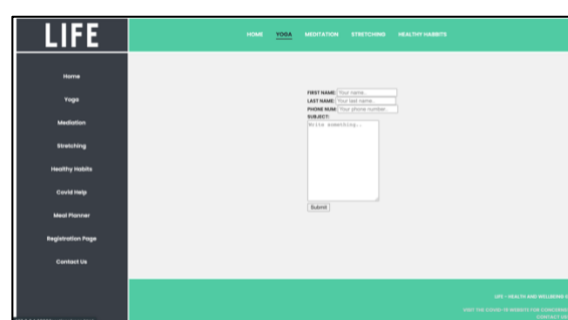


Figure 9: The use the hover animation over the yoga tab on the main landing page.

Additionally, the use of a grid layout supported my design by separating all the elements on my home page, thus, making it easier for my users to 'break up' the content. This separation

also aids in understanding the various elements of my page and what will be presented on the given screen when interacted with. Furthermore, with the addition of the zoom effect this will significantly aid a visually impaired users as they can identify what will occur when interacted with

Part C: Suggest an alternative (to the one shown on page 2) layout for the website. You will need to draw a well-labelled diagram of the new layout. Consider the features of HTML5 and CSS3 that might help in creation of this layout. Analyse the layout considering the points such as: ease of use of the website, how user-friendly the layout is? & Is the layout easily editable or extended in future (this is important as clients change their needs, requirements and thought process and website layout needs to be altered for future versions)? Your answer should not exceed 1-2 page(s).

The layout design that would be suitable for the website's purpose is shown in figure 10. This would include the navigation bar in the top right, with a space for a logo in the top right. The reason for this is to have valid links imperative for the website's success, the links placed in here likely would include a link to the 'contact us page', the 'registration form' and a link to the website's 'home' page. Below this I would include a side navigation for important content such as 'services', 'yoga', 'meditation', 'healthy habits', 'stretching' and 'meal planner'. Alongside this, I will implement 4 content areas equally divided to display the main aspects of the website alongside a brief description of each section to further display the content they will receive when clicking on the given div. Lastly the footer area, will hold vital information to pages such as 'contact us', a link to the covid help website and the 'site map' website.

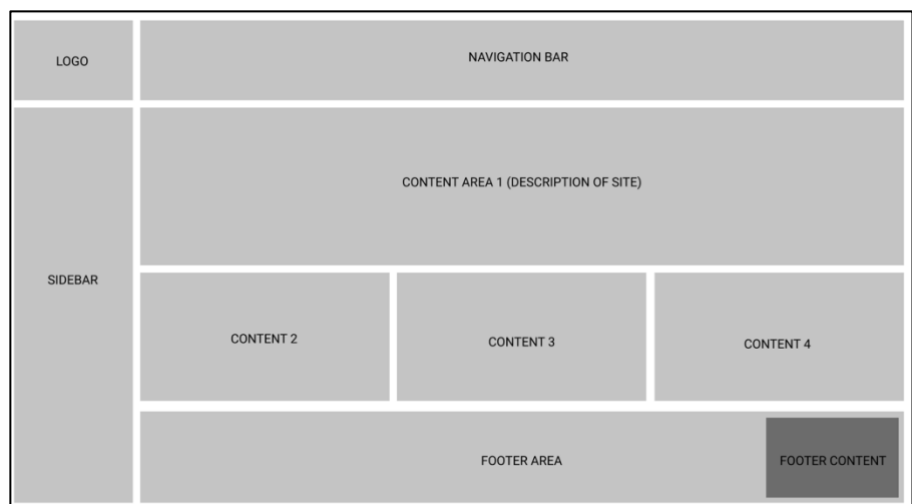


Figure 10: suggested website layout for Life health and wellbeing

This layout would be highly effective as it provides ease of use to its given users, as there are constraints to make it simpler for the user to navigate. The navigation bar allows for ease of use as there are links that can be pressed in all pages; this will also include hover effects to allow visually impaired users to easily differentiate the location in which they are hovering. Additionally, the page is also responsive and will be able to be manipulated in size, which will allow for the page to be adjusted in size accordingly.

The side bar, similar to the navigation bar, will hold relevant links to the content of the website; this similarly will include hover effects to ensure that users that are visually impaired can identify the contrast occurring to see what they are clicking on.

The content areas will hold brief descriptions of what will be presented on the given page when clicking on the particular div, this additionally will have a small zoom effect to allow for ease of use. The information stored within the first div will be a small description of the websites purpose and the Life health and wellbeing main content. The content 2,3 and 4 will hold descriptions of the main links that the website is known for, these will be

The footer of the website will hold, small portion of important information including 'contact us' covid help website and a link to the 'sitemap' page, this will also including link to the given pages to ensure that they can reach the designated target location.

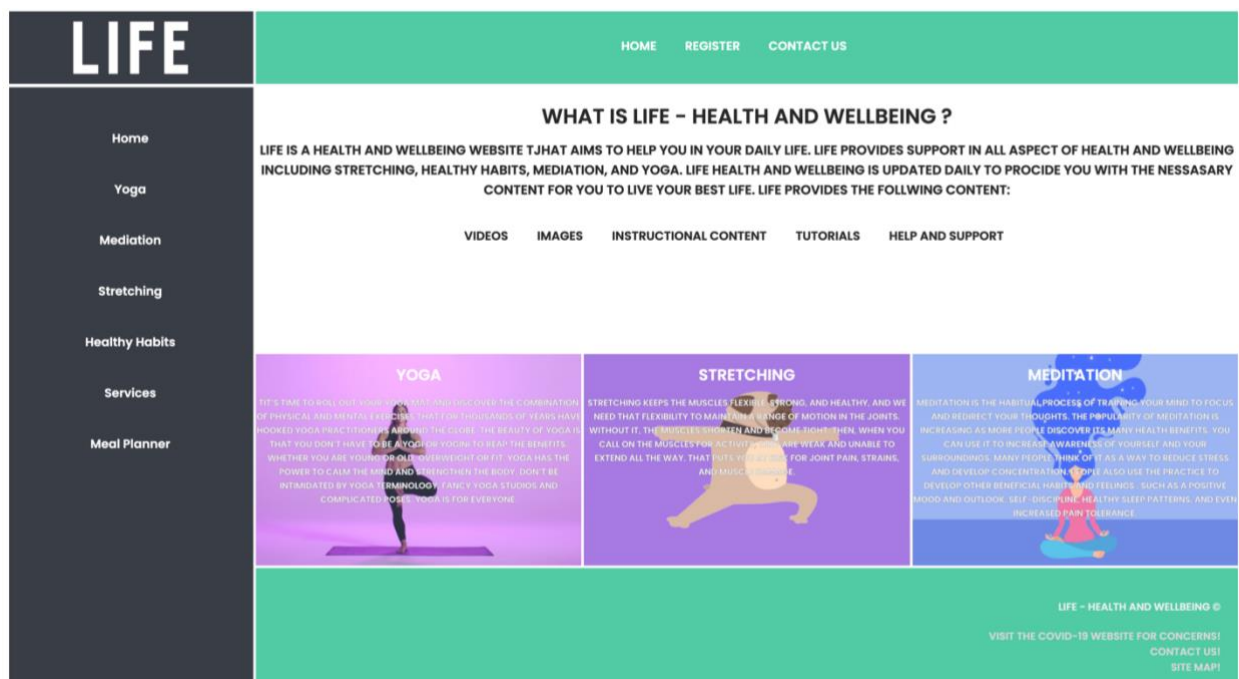


Figure 11: suggested website layout for Life health and wellbeing (colour and layout temp)

Part D: Suggest and explain four ways

to make LIFE website accessible. Be realistic in your answer as you will have to code these features as a part of website creation. Your answer should not exceed 1-2 page(s). Using HTML5, CSS3 and JavaScript author the client-side website features. At this stage, you are to test the website for Chrome browser only. You must always the HTML5 DTD for web pages:<!doctype html>You must host your website using the following URL scheme: <http://titan.csit.rmit.edu.au/~s1234567/wp/a1/index.html>(where s1234567 is your student id and titan can also be Jupiter or Saturn.

To increase the accessibility of my website, I could include features such as colour contrasting for individuals who are visually impaired or colour-blind. Alongside this, the implementation of a home button would simplify manoeuvring and navigating the website. Moreover, the use of animations and hover effects can be implemented to make it more visible for visually impaired users to manoeuvre the website as they can identify colour and movement change.

Use of colour contrast:

Contrast refers to the difference between the lightest colour and the darkest colour, usually within the foreground and background.

For Example, figure 12, shows that letters within the top right of the image hold the greatest contrast in comparison to its background. As we move further to the right, the contrast begins to decrease, thus, making it more difficult to identify the letter. Depending on a user's visual ability and contrast distinguishability, at a certain contrast, the user will no longer be able to distinguish text from the background.

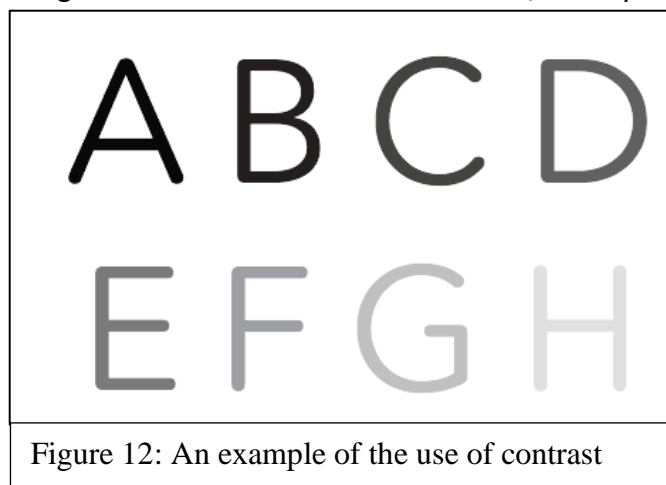


Figure 12: An example of the use of contrast

Moreover, figure 13 displays the letter 'A', which is located on the top right of the image, holds the greatest contrast in comparison to its background. As we move further to the right of the picture, the contrast begins to decrease. Depending on a user's visual ability and contrast distinguishability, the user will be unable to distinguish text from the background. Thus, to ensure that we account for the visually impaired we must alter the text presented on the web page to be readable for all users and follow the contrasting guidelines.

Typography:

The choice of typeface used on the website is imperative. This, alongside font size, weight and spacing, form an important part of the website's ambience. The use of quirky, script, titling and unusual fonts are highly ineffective in communicating with users who are visually impaired. As a result, the introduction of bold text in 14px sizing will be beneficial for all kinds of users. Figure 13 displays the text of choice for my 'Life' website.



Figure 13: the font of choice for Life health and wellbeing, incorporating bold text and a heavy weight for visually impaired users.

The Home button:

Implementation of a home button within the navigation bar will be imperative for easy manoeuvrability throughout the website. The homepage is essentially the hub of the website, meaning that if users lose where they are going and want to renavigate elsewhere, they will gain more by clicking the 'home' button than scrounging around, searching for an answer. Additionally, the addition of a home button reduces the likelihood of website friction. In UX, friction refers to when a user is unable to find what they desire. Therefore, making my homepage more prominent will reduce drop off rates as a result of friction frustration.

Use of animation:

The use of animation can be beneficial and assist in accessibility. Ensuring animation has a positive impact on accessibility is important to creating a well-functioning website. The implementation of aspects such as hover effects, and the use of zoom animation when hovering over div's and images will increase the amount of contrast between elements. These small adjustments can significantly increase the ease of using a site and, ultimately, benefit the overall UX of the site.