Choosing and evaluating tools, equipment, materials and components (Document A)

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| Choose tools, equipment, materials and components you will use to create your prototype. This may include:   1. Programs/apps (tool) 2. Computer / operating system (equipment) 3. Browser 4. Development platform eg xampp vs some other development system 5. Final platform for the deployment of the final outcome 6. Images 7. Sounds 8. Animations 9. Other components that could be considered   You will need to show evidence that you have evaluated, trialled or considered in some way the chosen materials and components. This may include:   1. Research (for example you researched google chrome vs explorer for your website development and final deployment) 2. Making small parts of a program/animation/image to test for compatibility, or aesthetics, or action, or efficiency, or …..   Now you will select the materials and components you will actually use. |

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| tools, equipment, materials or components | Evaluate (research) | Screenshots of practice | Use ✓ | Explain why you will use this  Keep in mind the wider physical and social environments, the fitness for purpose. |
| Computer | Chrome OS, Windows, Linux and Mac OS X  Chrome OS:  Pro:   * The simplest and most straightforward operating system available today. * The operating system, created by Google, is very similar to the popular Chrome web browser, except transformed into an operating system.   Con:   * It doesn’t have a file browser, and it doesn’t run applications.   linux:  Pro:   * The most powerful and customisable operating system available today. * It can be customised to match my specific needs exactly, allowing me to create my own perfect development environment.   Con:   * It is the most difficult to use operating system available today. * Many commands need to be entered directly into the command line, which can be rather daunting and unintuitive. * Installing apps and making changes to the operating system can be difficult.   Windows:  Pro:   * The most popular operating system in the world. * The Windows web design and development community is excellent, with many programs * Windows is also available on a variety of laptops at different price points, making it the most flexible of the four operating systems   Con:   * Tools available for Windows that aren’t available on other operating systems.   Mac OS X:  Pro:   * It is excellent for web development, with the built in Terminal providing easy access to tools like git, virtualization software, and more. * OS X is quickly becoming the operating system of choice for web designers and web developers with deep pockets. * Easy to use   con:   * Mac OS X is only available on Apple units, which are often more expensive those that are manufactured by other companies. |  | ✓ | Around the world, Mac OS X is the most popular and the most famous one. It is the fastest one among Chrome OS, Windows, Linux and Mac OS X. If I use the Chrome OS , due to its con my web design development work has to be done through browser-run web apps. It is a limited choice for me, so I won’t use it. The computer I have which able me to use at my home and somewhere else is MacBook. Hence I will use Mac OS X to create my outcome. My school has Microsoft Windows, so I also can use my school’s computer to create and complete my outcome. Windows is the second one which I prefer, due to its pro. |
| JavaScript | Pro:   * **Speed.** Being client-side, JavaScript is very fast because any code functions can be run immediately instead of having to contact the server and wait for an answer. * **Simplicity.** JavaScript is relatively simple to learn and implement. * **Versatility.** JavaScript plays nicely with other languages and can be used in a huge variety of applications. Unlike PHP or SSI scripts, JavaScript can be inserted into any web page regardless of the file extension. JavaScript can also be used inside scripts written in other languages such as Perl and PHP. * **Server Load.** Being client-side reduces the demand on the website server.   Con:   * **Security.** Because the code executes on the users' computer, in some cases it can be exploited for malicious purposes. This is one reason some people choose to disable JavaScript. * **Reliance on End User.** JavaScript is sometimes interpreted differently by different browsers. Whereas server-side scripts will always produce the same output, client-side scripts can be a little unpredictable. Don't be overly concerned by this though - as long as you test your script in all the major browsers you should be safe. |  | ✓ | JavaScript plays nicely with other languages and can be used in a huge variety of applications, so it support me to write them in my HTML website code. I can use them to create lightbox or carousel for my user and my stakeholder. Because it is very fast, my user and my stakeholder won’t to wait it loding for a long time and then lose their patience. |
| Google Mobile Optimizer | Pro:   * the quickest way to make a website mobile-friendly.   con:   * There is no signing up and no way to customize the look |  | ✓ | Computer is too large for people to use and to hold anytime in anywhere. Mobile device is the most convenience choice for people to use and go into the internet. Now almost everyone has a mobile device on their hand. If I put my original code into a mobile device, the desktop version of a site might be difficult to view and use on it. The desktop version are often rich, usually include Flash and video content. If I don’t provide a mobile version of my website, I am providing a poor user experience and risking customer dissatisfaction, which can mean lost stakeholders expected. However, due to the con of Google Mobile Optimizer I won’t use it to optimize a web for mobile access. I will add some codes in my html-file, just use my technology. |
| popup contact modal | 1. Separate browser windows, usually set to a specific size with reduced browser chrome 2. In-window floating elements, whose appearance is triggered by the user, that cover a relatively small portion of the screen, often with a small arrow pointing to the element that triggered its visibility 3. In-window floating elements that cover the majority of the screen (either by themselves, or by 'dimming' the rest of the page with a semi transparent overlay), and block other functionality on the page until they are dismissed. (This last one is more properly referred to as a "modal" but the term popup is often misused for it.)   Pro:   * Readers and visitors are focused on your valuable content. People focused on a certain task experience something called “inattention blindness”, which means they don’t notice something obvious when they’re focused on something specific. Popups break through inattention blindness and encourage a conversion that might have occurred had your visitor been able to see your “ask”.   con:   * New window pop-ups are, basically, new window, no good. Google hates those. * Many visitors, especially those who are familiar with internet technologies, don't like popups. Some people dislike them so much, the will immediately exit a site with a popup. * Anything less than the right message at the right time can be annoying and distract visitors from their experience. * Some pop ups, especially those which contain scripts, might slow your page load time down   The in-browser "popup":   * small and self-contained * It is specifically related to a particular element already on the screen * It is optional   The separate browser window "popup"  This was far more useful in the early days of the web, when the scripting and layout techniques enabling the other options simply didn't exist yet. This type has significant disadvantages: it's easily lost behind the main window, especially for users who browse full screen; it works poorly on mobile devices for obvious reasons; you need to build in obvious ways to re-open the popup if the user accidentally closes it; and most significantly many users have configured their browsers to simply block this altogether, or will immediately close them without even looking (since it's been misused for advertising purposes for so many years.) This technique is largely obsolete, with one single exception: unlike the other types, this form of popup can persist even if the user navigates to different pages in the 'main' window; there are some narrow use cases where this is useful.  The full-page "popup":  Modals are interruptive, so should be used as sparingly as possible, and only for elements which the user *must* interact with before continuing -- license agreements or paywalls for example. They should not be used for stepwise processes -- in those cases simple stepwise navigation is more appropriate -- the only reason modals are not fullscreen is to indicate to the user that when the modal is closed they will be returned to whatever they were looking at before the modal was opened. Modal popups are increasingly being used for advertising purposes |  | ✓ | I will use it while I need my user and stakeholder to sign up their account in my web. I also need it to show them some information and make them focused on a certain task experience. Contrast its con and pro, the pro is overweight the con. Although the user and the stakeholder exist it immediately, popup contact modal still warns them as there has any important information they need to know. |
| Adobe Photoshop | Pro:   * There are plenty of design tools to use. * It is extremely useful for photo corrections or manipulation * The integrated stock library lets you have even more control over the creative process. * You can edit more than just photographs with PS.   **con:**   * The interface can be very overwhelming to new users of the program. * Not every update is completely polished before its release * Some of the tools don’t show progress bars. |  | ✓ | The pros and cons of Adobe Photoshop prove that it is still the premier image editing app and Photoshop creates lies. Hence, I can use Adobe Photoshop to import the videos & the photos into the software quickly and easily. In my web, it will have a plenty of images and photos, Adobe Photoshop is a good and easy one to handle numerous photos, images, and even videos. Everything will be organized in a neat and orderly way on the screen. It is a heavyweight program and many of the tools are computationally intensive , it takes up a large space of room on my computer as well as RAM memory, so I will use my school computer which has this program to edit my photos, images and videos. |
| Color:  Adobe Kuler  <https://color.adobe.com/create/color-wheel/> | Pro:   * It allows me to upload, create, and edit color schemes of my choice * Low entry price to an amazing suite of products delivering high quality features.   con:   * It always raise the subs * The downloads are not portable from computer to computer. |  | ✓ | It has many colors and gives me many choices for my web. Due to its con, I will use my school’s device which already got one in it. |
| Google Web Fonts | Pro:   * Google is the most common website of the world, almost everyone use it for searching information. Hence many people might use the fonts from Google. Otherwise, Google Web Fonts has lots of options to choose. * They are free * Don’t have any trouble with licensing * The fonts are easy to implement on your website, so no trouble with font embedding. * Since I will not have to upload the fonts to my server, I will not experience any strain from the fonts. * Does not require Javascript code * Performance-optimized fonts load fast   Con:   * Google Web Fonts only work on certain email clients: iOS Mail, Mail.app, Lotus Notes 8, default Mail on Android, Outlook 2000, and Thunderbird * If I am showing a website offline to a client, I will not be able to show the fonts, since they are not on my computer or server. Although, in principle I could embed the fonts myself. * Quality reduced due to compression |  | ✓ | Google is the most common website of the world, almost everyone use it for searching information. Hence many people might frequently use the fonts from Google. Its pro makes me to think about use it for choosing my fonts and my user and stakeholder already used to read them. |
| Moqups | * Moqups is a HTML5 app used to create wireframes, mockups or UI concepts. The style and features available are very similar to balsamiq. It all boils down to which tool you are more comfortable using. * Create a functional prototype by adding interactivity to your designs. * Simulate the user experience, uncover hidden requirements, find dead ends, and get final sign-off from all stakeholders before investing in development.   Pro:   * work anywhere and anytime on any device without uploading and downloading files * drag and drop to import images from my desktop or apps * extensive range of fonts and styling options * powerful, flexible, and scalable Page management |  |  |  |
| Visual Studio Code (tool) | Visual Studio Code vs Notepad++  Pro:   * VS Code is cross-platform * VS Code is a lightweight, “streamlined” code editor. * Fast, fast, fast. * Support for [Emmet](http://emmet.io/) abbreviations, for super-fast HTML, JavaScript, and CSS coding. * Super-simple editor zoom. Ctrl+= zooms the code editor and all UI elements. Great for demos. * Very keyboard-friendly.   Con:   * Workflow relies heavily on comfort with the command line. * No out-of-the-box templates. |  | ✓ | I chose Visual Studio Code which enables a plenty of types of file to work. It can work without internet.  According to its pro, I can use it to create my website faster with less mistake. Because I use my MacBook to create my web, so I need it to help me save my codes in my computer. I will use it for writing HTMl page, scss/css and php page. |
| Notepad++ | Pro:   * Notepad++ has a very active community behind it * It is available in a multitude of languages. * Notepad++ is highly portable and runs from a USB stick.   con:   * NP++ is only available in windows * Earlier versions have been known to crash and are unstable |  |  | My development platform is my Macbook Pro, this will not allow Notepad++ to be downloaded to it so I need to use Code instead. In my opinion the pros outweigh the cons in my evaluation research. Notepad++ doesn’t work on the MacBook, so I search another useful app for creating my web. |
| XAMPP | XAMPP vs WampServer  X - the cross-browser tool which may be launched on Windows, Linux, OS Mac, and etc. A - Apache - the web server software.M - MySQL - the database type. P - PHP - scripting language. P - Perl - scripts’ language too.  Pro:   * XAMPP is good for development and portability. * XAMPP is multi-platform. * It has a mail server, FTP server, etc. * It uses LESS memory than WAMP * easy to install * It provides GUI based control panel for starting and stopping modules/services and updating config files.   con:   * It is a little bloated, installing applications that most web developers do not really need |  | ✓ | I use Xampp app, and it contains Apache, ProFTPD and MySQL functions. These functions would enable me to check and create my outcome on my MacBook Pro. Although WampServer has three major tools like PHP, MySQL and Apache as XAMPP, it is just available for Microsoft Windows OS. XAMPP also able me to use the information from my stakeholders database into my web. XAMPP can be used for my outcome written in Perl programming language in addition to PHP. I especially like that I can run either on a USB flash drive. |
| WampServer | con:  WAMP just runs on Windows  Pro:   * It is a website development and hosting software package - with Apache 2.4, PHP 5.6, and MySQL 5.6. * phpMyAdmin provides complete access to the MySQL Database. * Enable PHP Opcode for that website. * It allows me to switch online/offline (give access to everyone or only localhost) |  |  |  |
| koala | It is a GUI application for Less, Sass, Compass and CoffeeScript compilation  Pro:   * Koala can run in windows, linux and mac. * Listening files, compile automatically when the file changes, that everything is running in the background without user action. * It has Error Notification * Support set the compiler options for each file. * It support for the project to create a global configuration, set the same compiler options for the files.   Con:   * Koala program doesn't works auto-compilation when in general SASS style file is used “ import” of another SASS file where I make changes |  | ✓ | I use it because all my codes are running in the background without my action. If I have typed any mistake, it will pop up the error message. Runs on Windows, Linux and Mac. So I can use it on any systems without internet. I will use it to run my SCSS/CSS codes. |
| Website Builders: wix | Pro:   * Huge collection of designer templates * Help and support everywhere * The most innovative drag-and-drop website builder   cons:   * Can’t switch templates * Wix branding appears on your pages and in your URL (web address). |  | ✓ | ~~This website will help me to design my own website. Its functions is useful and allows me to measure the wide and high for inputting any photo into my web. It allows me to create HTML5 websites and mobile sites.~~  I am using this for design my website. Due to its pro which has huge collection of designer templates, so I use some of its idea to model my innovative web. That web will be my rough prototype to get feedback from my user and stakeholder. And then use this web design to code my real web. It will be a easier and more clear way for me to write my code. |
| Safari | Pro:   * If you use multiple Apple products, the built-in integration and sharing are convenient features   Con:   * Fewer customization options |  | ✓ | Safari is already installed in each Macbook device. It is a common app with basic functions in the laptops. Some people who has a macbook will use it. |
| google chrome | Pro:   * Android users can benefit from saved information being shared across Google devices and services * It can be customized with one's own add-ons.   con:   * It can be difficult to find all of the controls, options, et cetera |  | ✓ | It is one of the most common app around the world. I will use it to check my web for working well with others interaction on other way. |
| firefox | Pro:   * Having access to a large library of mods and add-ons   con:   * Base ("vanilla") version doesn't offer much beyond the browser, but adding more than a few extensions and mods slows it down considerably |  | ✓ | It is one of the most common app around the world. I will use it to check my web for working well with others interaction on other way. I won’t download it into my mac, so I will send me codes into others laptop which has firefox app. |
| explorer | Pro:   * Have great security features   cons:   * Not always the easiest to use * Not have a lot of features |  | ✓ | I will send my codes to a computer which has explorer and use it to check my codes.  Due to its pro, it is one of the most frequently used, easy use, functionality, and default browser for Windows operating system device, I want to use it to check my code for making sure it works well on Microsoft for my user and stakeholder who use Microsoft.  Microsoft has improved Internet Explorer over the past few years, so its security problems have improved and be adapted. However, it still has large security holes that are targets for Hackers, so I just use it for testing my code and making sure it works well. I won’t put much concentration on it. |
| wechat | Pro:   * Subscribe to official accounts * Send money to friends * Update timeline   cons   * There’s a limit on the number of friends you can add on WeChat. * Since WeChat is used for both work and personal situations, you may find yourself with many work acquaintances on WeChat, together with your close friends and family members. |  | ✓ | Wechat is one of the world's largest mobile apps. I will make a new account and use it to contact with NZ pet lovers and get more informations about losing and homeless animal. Lots of chinese living in NZ use this app, so I can ask them first. I will use this to get stakeholder feedback and I will also use it to contact with more stakeholder, so they will spread my website out and then more people will know and visit my website. I will embed wechat in my outcome as one of the social media feeds. |
| facebook | Pro:   * It provides the unlimited connectivity.  Free and Quality communication. It has a different league. con:   * PRIVACY LEAKS. Since so much of your information is out there, you are more vulnerable and susceptible to attacks like identity theft, hacked accounts and frauds. |  | ✓ | I will use it to get more publicity for my web. I also could get more news about the animal from it.  Because facebook is one of the most popular and common social tools. Lots of people use it and has their account in it, they also have facebook app in their phone. Therefore, I will just use the news and any information about animals from it and input them into my web for my user and stakeholder. Due to its privacy aspects issues, I won’t use it for my user and stakeholder to sign up for a new account in my web. |

**NOTE: Evaluation questions:**

These questions should be asked and answered for each tool or technique you have listed

1. What are my research findings (you may use the tools, equipment, materials or components in a practice snip to test/trial its effectiveness)
2. How effective is it
3. How you would likely use it
4. The context you will use it in (from your brief)
5. Will it help you meet the fitness for purpose (in its broadest sense, including legal issues eg copyright)

Part B: Evaluation of tools, equipment, materials and components in making the prototype

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| **Chosen tools, equipment, material or component** | **What I am testing** | **Date** | **Results and screenshots** | **Evaluation of the effectiveness of the chosen tools, equipment, materials or components while making the prototype** |
| *Javascript* | I have typed Javascript file (bootstrap) into my head.php, so I want to test does it work well on Safari and other browsers. | 20180511 |  | My bootstrap didn’t work so I tried to use WSC CSS to check whether my code has mistake or not and then find out the problem. Due to it doesn’t has any mistake which means I input the wrong file, so I changed code (css/ahsd.css) into css/bootstrap.min.css, then it works.  This thing helps my web to achieve the **Technical Feasibility part. Because it is more complex**, so its complex function enable my web to have more clear and *organized way to let the user use the outcome.* |
| Visual Studio Code | I am testing that could it contact with XAMPP, and could it show my web in any browser. |  | It enable me to drag the whole folder in it, and it shows all the types of files out. | It works well. It allows me to input my codes and input into my html document. It always mention me to save my codes, and if I have typed any wrong codes, it will tell me where I have the mistake.  It helps my web achieving the Resources part of the prototyping. |
| firefox | I am testing that everything works well in different browsers, and to *make the appearance acceptable taking into account wider stakeholders* | 0704 | <https://docs.google.com/document/d/1o4QyRZRmkB_6-K5XWqpg5SacThIOtfrG6ztBWWnI6pI/edit?usp=sharing> | My web could works well in different browsers, it means that more people has opportunity to visit my web through several ways. It makes my web achieving the maintenance part. Besides, more people visit my web more feedback I could get from them. Their feedback support my web to achieve disposal part of the whole prototyping. |
| explorer |
| Safari |
| google chrome |
| google web font | Testing fonts of each title, sub title and paragraph. To make sure they fit in my web |  | I have input the codes of the text fonts from google web font, these codes works well and the text looks great and nice. | It makes my we achieving the **Technical Feasibility part.** It increases the level of Aesthetics of my web. Its font are quality and quantity. |
| wix | I am using this to check that my user and my stakeholders like my web design. I use it to make sure that I in the right way to complete my whole outcome. | 0412 |  | ***Social Acceptability is achieved by it, because it shows to the user and the stakeholder what I am going to create and build before I start to make the outcome. It helps me to check that my web’s*** culturally acceptable relates to user’s believes and their thinkings. And make sure t*he outcome is positive and having right aim or purpose.*  It also ensures that my website is Copyright, and all the design are created by myself and I am going to create some unique codes through my prior design. |
| **XAMPP**  and **koala** | I searched the Notepad++ on my app Store in my MacBook, but there was no useful result for me. | 20180412 |  | Notepad++ doesn’t work on the MacBook, so I search another useful app for creating my web. I chose Visual Studio Code which is contained a plenty of types of file. I use Koara and Xampp app, and they are able me to check and create my outcome.I set my 91635\_WEB folder into htdocs folder of Xampp. It helps me to show my html codes on any browser for my user and stakeholder.  However, it also has a weakness. My contact can not get the email from my stakeholder and my users. Hence, I determine to copy my 91635\_WEB folder, and then input them into 000webhost to test my mail |
| **Facebook and wechet** | I am testing that does it has any account is about rescue animal and adopt center. | 0605 |  | It has lots of account which all aim to help animal and help them to be adopted. I can contact with them through it, in order to get the recent information of animal. It means my web will achieve maintenance **part.** *It ensure the website ‘lives’ longer and more economically sustainable.* |
| Adobe Kuler | I am testing that does its color enable me to add in my codes. Does my web and other browser accept its color codes. |  | All the color appears on my web and shows out to the users. | It has various color and it enable me to select the best one which makes my web appearance acceptable taking into account wider stakeholders. It makes my web achieving the Aesthetics part. |